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FLUOR

Memorandum

M8141-SLF-04-371

To: S. J. Trent A0-21 Date: December 7, 2004

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

cc:

w/Attachments		w/o Attachments	
T. F. Dale	S3-28	D. J. Hart	S3-30
H. K. Meznarich	S3-30	M. A. Neely	S3-30
P. D. Mix	S3-30	H. S. Rich	S3-28
J. E. Trechter	S3-30	L. C. Swanson	E6-35
		File/LB	

Subject: FINAL RESULTS FOR 200-LW-1/LW-2 CHARACTERIZATION - SOIL – SAMPLE DELIVERY GROUP WSCF20042022 – SAF NUMBER F03-025

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

(2) HNF-SD-CD-QAPP-017, Rev. 6, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for sample delivery group WSCF20042022, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

SLF/grf

Attachments 3

RECEIVED
MAY 18 2005
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M8141-SLF-04-371

ATTACHMENT 1

NARRATIVE

Consisting of 8 pages
Including cover page

Sample Delivery Group	**WSCF20042022**
Sample Matrix	**Soil**
Sample Visual	**N/A**
SAF Number	**F03-025**
Data Deliverable	**Summary Report**

Introduction

Four (4) 200-LW-1/LW-2 Characterization – Soil, 216 T-28, GRP samples (B19187, B19190, B19191 and B19192) were received at the WSCF Laboratory on November 1, 2004. The samples were analyzed for the analytes indicated on the three attached copy of the chains of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the three chains of custody and Request for Sample Analysis forms are included as Attachment 3.

Analytical Methodology for Requested Analyses

Inorganic

- Ammonia by EPA Method 300.7. Analytical work was performed with no deviations to the approved method.
- Anions by EPA Method 300. Analytical work was performed with no deviations to the approved method.
- Cyanide by EPA Method 335.2. Analytical work was performed with no deviations to the approved method.
- ICP-AES Metals by EPA Method 6010. Analytical work was performed with no deviations to the approved method.
- ICP-MS Metals by EPA Method 200.8. Analytical work was performed with no deviations to the approved method.
- Percent Solids by EPA Method 160.3. Analytical work was performed with no deviations to the approved method.

- pH by EPA Method 150.1. Analytical work was performed with no deviations to the approved method.

Organic

- Alcohols/Glycols by EPA Method 8015. Analytical work was performed with no deviations to the approved method.
- PCBs by EPA Method 8082. Analytical work was performed with no deviations to the approved method.
- Semi-VOA by EPA Method 8270. Analytical work was performed with no deviations to the approved method.
- TPH Diesel Range by WDOE Method NWTPH-Dx/Gx. Analytical work was performed with no deviations to the approved method.
- TPH Gas Range by WDOE Method NWTPH-Dx/Gx. Analytical work was performed with no deviations to the approved method.
- VOA by EPA Method 8260A. Analytical work was performed with no deviations to the approved method.

Radiochemistry

- All RadChem analyses (AEA (Plutonium, Americium, Uranium and Neptunium) and GEA) were run by internal WDOE accredited WSCF procedures. Analytical work was performed with no deviations to the approved method.

Inorganic Comments

Ammonia - The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 16 for QC details. Analytical Note:

- B19187, B19190, B19191 and B19192 - Sample results were B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

All QC controls are within the established limits.

Anions - The hold times for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See pages 17 through 18 for QC details. Analytical Notes:

- Preparation Date: 10-nov-2004.

- Samples B19187 and B19190 - Fluoride, Nitrate, Phosphate and Sulfate results were B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

- Sample B19191- Fluoride and Nitrate result was B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

- Sample B19192- Chloride, Sulfate and Nitrate result was B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.

- Fluoride – The Duplicate Relative Percent Difference exceeded established laboratory limits. The RPD criterion is not applicable to sample results less than ten times the method detection limit. Samples were not flagged.

- Phosphate – The Matrix Spike and Matrix Spike Duplicate recoveries were below established laboratory limits. Samples B19187 and B19190 were greater than the detection limit and E (estimate) flagged.

All other QC controls are within the established limits.

Cyanide - The hold time for this analysis was met. A Blank, Preparation Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 19 for QC details. Analytical Note:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19LJ4 (SDG# 20042029, SAF# F03-018).

All QC controls are within the established limits.

ICP-AES Metals (Bismuth only) – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 20 for QC details. Analytical Notes:

- Preparation Date: 30-nov-2004.

- Bismuth – Analyte found in the associated Blank QC sample. All sample results were less than twenty times the blank concentration and not flagged.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 21 through 23 for QC details. Analytical Notes:

- Preparation Date: 22-nov-2004.

- Mercury – The Laboratory Control Sample recovery exceeded the established laboratory limits but was within the manufacturer's limits. Sample results were not flagged.

- Beryllium, Chromium, Copper, Mercury and Nickel – Evaluation of these analytes found concentrations in the associated Blank. Sample results were not flagged. (Note: Blank results are reported in ug/L and sample results are reported as ug/g for solid samples.)

All other QC controls are within the established limits.

Percent Solids – analyzed for organic moisture correction.

pH - The hold time for this analysis was met. All laboratory QC controls are within the established limits.

Organic Comments

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

Alcohol/Glycols - The hold time for this analysis were met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 33 for QC details. Analytical Note:

- Preparation Date: 10-nov-2004.

All QC controls are within the established limits

PCBs – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 34 through 35 for QC details. Analytical Note:

- Preparation Date: 02-nov-2004.

All QC controls are within the established limits.

Semi-VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 36 through 40 for QC details. Analytical Notes:

- Preparation Date: 02-nov-2004.

- Pentachlorophenol – Laboratory Control Sample, Matrix and Matrix Spike Duplicate recoveries were below established laboratory limits. All sample results were below the detection limit and not flagged.

All other QC controls are within the established limits.

TPHD-WA - The hold time for this analysis were met. A Blank and Laboratory Control Sample were analyzed with each delivery group per GRP Letter of Instruction. See page 41 for QC details. Analytical Note:

- Preparation Date: 02-nov-2004.

All QC controls are within the established limits.

TPHG-WA - The hold time for this analysis were met. A Blank, Duplicate, Laboratory Control Sample, Duplicate, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 42 for QC details. Analytical Note:

- Preparation Date: 10-nov-2004.

All QC controls are within the established limits.

VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 43 through 46 for QC details. Analytical Note:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19LJ3 (SDG# 20041987, SAF# F03-018).

All QC controls are within the established limits.

Radiochemistry Comments

RadChem – There are no hold times associated with these WDOE accredited methods. A Blank, Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 52 through 57 for QC details. Analytical Notes:

- GEA - Duplicate QC samples were analyzed on sample# B19LJ4 (SDG# 20042029, SAF# F03-018).

- Neptunium-237 - Duplicate QC samples were analyzed on sample# B19189 (SDG# 20042054, SAF# F03-025).

- Neptunium-237 – The Laboratory Control Sample recovery exceeded established laboratory limits. Sample B19192 was X (estimate) flagged.

- Neptunium-237 – Duplicate Relative Percent Difference exceeded established laboratory limit and the Laboratory Control Sample recovery was below established laboratory limits. Samples B19187, B19190 and B19191 results were below the detection limit and not flagged, but should be considered suspect.

All other QC controls are within the established limits.

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
BLANK		Pu-242	76.8

Radiochemical Tracer Percent Recovery			
Sample Number	**Lab Sample ID**	**Isotope**	**Tracer Recovery (Percent)**
LCS		Pu-242	81.2
B19187	W040002092	Pu-242	73.0
DUPLICATE	W040002092	Pu-242	92.6
B19190	W040002093	Pu-242	75.7
B19191	W040002094	Pu-242	92.4
B19192	W040002095	Pu-242	75.0
BLANK		Am-243	76.2
LCS		Am-243	82.3
B19187	W040002092	Am-243	92.5
DUPLICATE	W040002092	Am-243	95.7
B19190	W040002093	Am-243	98.9
B19191	W040002094	Am-243	87.4
B19192	W040002095	Am-243	75.9
BLANK		U-232	85.2
LCS		U-232	77.0
B19187	W040002092	U-232	40.0
DUPLICATE	W040002092	U-232	84.8
B19190	W040002093	U-232	81.7
B19191	W040002094	U-232	79.6
B19192	W040002095	U-232	79.7

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

Herlene S. Rich
WSCF Production Control

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

M8141-SLF-04-371

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 61 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: _____

Client Services: _____

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

Confidentiality Notice: The information contained in this report is privileged and confidential information intended only for the use of the addressee. If the reader of this report is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at (509) 373-7020.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20042022
Report Date: 6-dec-2004
Report WGPP/ver. 1.1

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Inorganic														
W040002092	B19187	GRP	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	11/04/04	10/27/04	11/01/04
W040002092	B19187	GRP	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	0.990	mg/kg	50.00	0.20	11/24/04	10/27/04	11/01/04
W040002092	B19187	GRP	TS	Total solids	SOIL	LA-519-412		95.4	%	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	PH	pH Measurement	SOIL	LA-212-411		10.6	pH	1.00	0.010	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	16984-48-8	Fluoride	SOIL	LA-533-410	B	2.66	mg/kg	50.00	1.2	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	16887-00-6	Chloride	SOIL	LA-533-410	U	< 2.60	mg/kg	50.00	2.6	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	4.90	mg/kg	50.00	0.65	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	BE	13.3	mg/kg	50.00	2.7	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	14808-79-8	Sulfate	SOIL	LA-533-410	B	12.3	mg/kg	50.00	5.0	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-69-9	Bismuth	SOIL	LA-505-411		2.32	mg/kg	1.00	0.11	12/01/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-02-0	Nickel	SOIL	LA-505-412		12.6	mg/kg	9.84	0.21	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-22-4	Silver	SOIL	LA-505-412		1.06	mg/kg	9.84	9.8e-03	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-36-0	Antimony	SOIL	LA-505-412	U	< 7.03	mg/kg	9.84	7.0	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-39-3	Barium	SOIL	LA-505-412		82.8	mg/kg	9.84	0.90	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-41-7	Beryllium	SOIL	LA-505-412		0.310	mg/kg	9.84	0.020	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.0197	mg/kg	9.84	0.020	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-47-3	Chromium	SOIL	LA-505-412		12.0	mg/kg	9.84	3.3	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-50-8	Copper	SOIL	LA-505-412		19.9	mg/kg	9.84	0.63	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7439-92-1	Lead	SOIL	LA-505-412		4.34	mg/kg	9.84	0.26	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7439-97-6	Mercury	SOIL	LA-505-412		3.99	mg/kg	9.84	9.8e-03	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-61-1	Uranium	SOIL	LA-505-412		113	mg/kg	9.84	0.16	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7440-38-2	Arsenic	SOIL	LA-505-412	U	< 2.36	mg/kg	9.84	2.4	11/23/04	10/27/04	11/01/04
W040002092	B19187	GRP	7782-49-2	Selenium	SOIL	LA-505-412	U	< 0.718	mg/kg	9.84	0.72	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	11/04/04	10/27/04	11/01/04
W040002093	B19190	GRP	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	1.34	mg/kg	50.00	0.20	11/24/04	10/27/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002093	B19190	GRP	TS	Total solids	SOIL	LA-519-412		95.8	%	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	PH	pH Measurement	SOIL	LA-212-411		10.6	pH	1.00	0.010	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	16984-48-8	Fluoride	SOIL	LA-533-410	B	4.24	mg/kg	50.00	1.2	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	16887-00-6	Chloride	SOIL	LA-533-410	U	< 2.60	mg/kg	50.00	2.6	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	5.86	mg/kg	50.00	0.65	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	BE	18.2	mg/kg	50.00	2.7	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	14808-79-8	Sulfate	SOIL	LA-533-410	B	10.5	mg/kg	50.00	5.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-69-9	Bismuth	SOIL	LA-505-411		5.54	mg/kg	1.00	0.11	12/01/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-02-0	Nickel	SOIL	LA-505-412		12.0	mg/kg	10.02	0.21	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-22-4	Silver	SOIL	LA-505-412		0.981	mg/kg	10.02	0.010	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-36-0	Antimony	SOIL	LA-505-412	U	< 7.15	mg/kg	10.02	7.2	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-39-3	Barium	SOIL	LA-505-412		70.7	mg/kg	10.02	0.92	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-41-7	Beryllium	SOIL	LA-505-412		0.317	mg/kg	10.02	0.020	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.0200	mg/kg	10.02	0.020	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-47-3	Chromium	SOIL	LA-505-412		13.4	mg/kg	10.02	3.4	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-50-8	Copper	SOIL	LA-505-412		17.7	mg/kg	10.02	0.64	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7439-92-1	Lead	SOIL	LA-505-412		4.44	mg/kg	10.02	0.26	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7439-97-6	Mercury	SOIL	LA-505-412		3.51	mg/kg	10.02	0.010	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-61-1	Uranium	SOIL	LA-505-412		84.3	mg/kg	10.02	0.16	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7440-38-2	Arsenic	SOIL	LA-505-412	U	< 2.40	mg/kg	10.02	2.4	11/23/04	10/27/04	11/01/04
W040002093	B19190	GRP	7782-49-2	Selenium	SOIL	LA-505-412	U	< 0.731	mg/kg	10.02	0.73	11/23/04	10/27/04	11/01/04
W040002094	B19191	GRP	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	11/04/04	10/28/04	11/01/04
W040002094	B19191	GRP	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	0.911	mg/kg	49.00	0.20	11/24/04	10/28/04	11/01/04
W040002094	B19191	GRP	TS	Total solids	SOIL	LA-519-412		97.5	%	1.00	0.0	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	PH	pH Measurement	SOIL	LA-212-411		10.6	pH	1.00	0.010	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	16984-48-8	Fluoride	SOIL	LA-533-410	B	3.62	mg/kg	49.00	1.1	11/10/04	10/28/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002094	B19191	GRP	16887-00-6	Chloride	SOIL	LA-533-410	U	< 2.55	mg/kg	49.00	2.5	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.931	mg/kg	49.00	0.93	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	2.50	mg/kg	49.00	0.64	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.65	mg/kg	49.00	2.6	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	14808-79-8	Sulfate	SOIL	LA-533-410	U	< 4.90	mg/kg	49.00	4.9	11/10/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-69-9	Bismuth	SOIL	LA-505-411		5.85	mg/kg	1.00	0.11	12/01/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-02-0	Nickel	SOIL	LA-505-412		14.3	mg/kg	9.92	0.21	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-22-4	Silver	SOIL	LA-505-412		0.113	mg/kg	9.92	9.9e-03	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-36-0	Antimony	SOIL	LA-505-412	U	< 7.08	mg/kg	9.92	7.1	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-39-3	Barium	SOIL	LA-505-412		45.4	mg/kg	9.92	0.91	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-41-7	Beryllium	SOIL	LA-505-412		0.317	mg/kg	9.92	0.020	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.0198	mg/kg	9.92	0.020	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-47-3	Chromium	SOIL	LA-505-412		16.9	mg/kg	9.92	3.3	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-50-8	Copper	SOIL	LA-505-412		18.1	mg/kg	9.92	0.64	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7439-92-1	Lead	SOIL	LA-505-412		3.49	mg/kg	9.92	0.26	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7439-97-6	Mercury	SOIL	LA-505-412		1.00	mg/kg	9.92	9.9e-03	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-61-1	Uranium	SOIL	LA-505-412		0.491	mg/kg	9.92	0.16	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7440-38-2	Arsenic	SOIL	LA-505-412		3.24	mg/kg	9.92	2.4	11/23/04	10/28/04	11/01/04
W040002094	B19191	GRP	7782-49-2	Selenium	SOIL	LA-505-412	U	< 0.724	mg/kg	9.92	0.72	11/23/04	10/28/04	11/01/04
W040002095	B19192	GRP	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	11/04/04	11/01/04	11/01/04
W040002095	B19192	GRP	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	1.50	mg/kg	49.00	0.20	11/24/04	11/01/04	11/01/04
W040002095	B19192	GRP	TS	Total solids	SOIL	LA-519-412		96.5	%	1.00	0.0	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	PH	pH Measurement	SOIL	LA-212-411		11.1	pH	1.00	0.010	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.13	mg/kg	49.00	1.1	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	16887-00-6	Chloride	SOIL	LA-533-410	B	2.58	mg/kg	49.00	2.5	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.931	mg/kg	49.00	0.93	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	4.37	mg/kg	49.00	0.64	11/10/04	11/01/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002095	B19192	GRP	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.65	mg/kg	49.00	2.6	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	14808-79-8	Sulfate	SOIL	LA-533-410	B	9.11	mg/kg	49.00	4.9	11/10/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-69-9	Bismuth	SOIL	LA-505-411		4.90	mg/kg	1.00	0.11	12/01/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-02-0	Nickel	SOIL	LA-505-412		17.8	mg/kg	9.85	0.21	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-22-4	Silver	SOIL	LA-505-412		0.827	mg/kg	9.85	9.8e-03	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-36-0	Antimony	SOIL	LA-505-412	U	< 7.03	mg/kg	9.85	7.0	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-39-3	Barium	SOIL	LA-505-412		68.8	mg/kg	9.85	0.91	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-41-7	Beryllium	SOIL	LA-505-412		0.912	mg/kg	9.85	0.020	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-43-9	Cadmium	SOIL	LA-505-412		0.127	mg/kg	9.85	0.020	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-47-3	Chromium	SOIL	LA-505-412		18.5	mg/kg	9.85	3.3	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-50-8	Copper	SOIL	LA-505-412		15.0	mg/kg	9.85	0.63	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7439-92-1	Lead	SOIL	LA-505-412		6.06	mg/kg	9.85	0.26	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7439-97-6	Mercury	SOIL	LA-505-412		1.04	mg/kg	9.85	9.8e-03	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-61-1	Uranium	SOIL	LA-505-412		1.24	mg/kg	9.85	0.16	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7440-38-2	Arsenic	SOIL	LA-505-412		4.27	mg/kg	9.85	2.4	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	7782-49-2	Selenium	SOIL	LA-505-412	U	< 0.719	mg/kg	9.85	0.72	11/23/04	11/01/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Ammonia (N) by IC

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

Lab ID: W040002092

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Ammonia (N) by IC	7664-41-7	8.36e-01	16.867	RPD	11/24/04	0.000	20.000	
MS	Ammonia (N) by IC	7664-41-7	3.98e-01	96.602	% Recov	11/24/04	75.000	125.000	
MSD	Ammonia (N) by IC	7664-41-7	3.87e-01	93.932	% Recov	11/24/04	75.000	125.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Ammonia (N) by IC	7664-41-7	<8.04e-1	n/a	mg/L	11/24/04	0.000	30.000	U
BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	11/24/04	0.000	30.000	U
LCS	Ammonia (N) by IC	7664-41-7	7.83e+01	95.255	% Recov	11/24/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

Lab ID: W040002092

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit		RQ
DUP	Chloride	16887-00-6	<2.60e0	n/a	RPD	11/10/04	0.000	20.000		U
DUP	Fluoride	16984-48-8	3.35e+00	22.962	RPD	11/10/04	0.000	20.000	*	
DUP	Nitrogen in Nitrite	NO2-N	<9.50e-1	n/a	RPD	11/10/04	0.000	20.000		U
DUP	Nitrogen in Nitrate	NO3-N	5.54e+00	12.261	RPD	11/10/04	0.000	20.000		
DUP	Phosphate (P) by IC	PO4-P	<2.70e0	n/a	RPD	11/10/04	0.000	20.000		U
DUP	Sulfate	14808-79-8	1.03e+01	17.699	RPD	11/10/04	0.000	20.000		
MS	Chloride	16887-00-6	9.78e-01	97.800	% Recov	11/10/04	75.000	125.000		
MS	Fluoride	16984-48-8	4.65e-01	94.130	% Recov	11/10/04	75.000	125.000		
MS	Nitrogen in Nitrite	NO2-N	4.42e-01	88.400	% Recov	11/10/04	75.000	125.000		
MS	Nitrogen in Nitrate	NO3-N	4.41e-01	97.783	% Recov	11/10/04	75.000	125.000		
MS	Phosphate (P) by IC	PO4-P	6.99e-01	72.136	% Recov	11/10/04	75.000	125.000	*	
MS	Sulfate	14808-79-8	1.74e+00	87.000	% Recov	11/10/04	75.000	125.000		
MSD	Chloride	16887-00-6	9.96e-01	99.600	% Recov	11/10/04	75.000	125.000		
MSD	Fluoride	16984-48-8	4.74e-01	95.951	% Recov	11/10/04	75.000	125.000		
MSD	Nitrogen in Nitrite	NO2-N	4.64e-01	92.800	% Recov	11/10/04	75.000	125.000		
MSD	Nitrogen in Nitrate	NO3-N	4.56e-01	101.109	% Recov	11/10/04	75.000	125.000		
MSD	Phosphate (P) by IC	PO4-P	7.03e-01	72.549	% Recov	11/10/04	75.000	125.000	*	
MSD	Sulfate	14808-79-8	1.78e+00	89.000	% Recov	11/10/04	75.000	125.000		

BATCH QC

BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	11/10/04	0.000	300.000		U
BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	11/10/04	0.000	300.000		U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	11/10/04	0.000	300.000		U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	11/10/04	0.000	300.000		U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	11/10/04	0.000	300.000		U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	11/10/04	0.000	300.000		U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	11/10/04	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	11/10/04	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	11/10/04	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	11/10/04	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	11/10/04	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	11/10/04	0.000	300.000	U
LCS	Chloride	16887-00-6	1.93e+02	96.500	% Recov	11/10/04	80.000	120.000	
LCS	Fluoride	16984-48-8	9.97e+01	101.013	% Recov	11/10/04	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	9.00e+01	90.000	% Recov	11/10/04	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	8.74e+01	97.003	% Recov	11/10/04	80.000	120.000	
LCS	Phosphate (P) by IC	PO4-P	1.79e+02	92.363	% Recov	11/10/04	80.000	120.000	
LCS	Sulfate	14808-79-8	3.63e+02	90.977	% Recov	11/10/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

SAF Number: F03-025
Sample Date: 11/02/04
Receive Date:11/02/04

Lab ID: W040002103

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Cyanide by Midi/Spectrophotom	57-12-5	89.8	89.800	% Recov	11/04/04	75.000	125.000	
MSD	Cyanide by Midi/Spectrophotom	57-12-5	100.1	100.100	% Recov	11/04/04	75.000	125.000	
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	100.100	10.848	RPD	11/04/04	0.000	20.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	1	1.000	ug/L	11/04/04	-4.000	4.000	
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	1	1.000	ug/L	11/04/04	-4.000	4.000	
LCS	Cyanide by Midi/Spectrophotom	57-12-5	98.6	98.600	% Recov	11/04/04	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Bismuth	7440-69-9	487.382	99.771	% Recov	12/01/04	75.000	125.000	
MSD	Bismuth	7440-69-9	494.482	99.573	% Recov	12/01/04	75.000	125.000	
SPK-RPD	Bismuth	7440-69-9	99.573	0.199	RPD	12/01/04	0.000	20.000	
BATCH QC									
BLANK	Bismuth	7440-69-9	110.7	110.700	ug/L	12/01/04	-1.000	0.068	
LCS	Bismuth	7440-69-9	207.1	103.550	% Recov	12/01/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

Lab ID: W040002092
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	337.345	84.336	% Recov	11/23/04	70.000	130.000	
MS	Arsenic	7440-38-2	422.4	105.600	% Recov	11/23/04	70.000	130.000	
MS	Barium	7440-39-3	400.56	100.140	% Recov	11/23/04	70.000	130.000	
MS	Beryllium	7440-41-7	389.6902	97.423	% Recov	11/23/04	70.000	130.000	
MS	Cadmium	7440-43-9	394.6	98.650	% Recov	11/23/04	70.000	130.000	
MS	Chromium	7440-47-3	406.02	101.505	% Recov	11/23/04	70.000	130.000	
MS	Copper	7440-50-8	399.54	99.885	% Recov	11/23/04	70.000	130.000	
MS	Mercury	7439-97-6	19.83	99.150	% Recov	11/23/04	70.000	130.000	
MS	Nickel	7440-02-0	394.27	98.567	% Recov	11/23/04	70.000	130.000	
MS	Lead	7439-92-1	381.463	95.366	% Recov	11/23/04	70.000	130.000	
MS	Antimony	7440-36-0	419.1	104.775	% Recov	11/23/04	70.000	130.000	
MS	Selenium	7782-49-2	435.4	108.850	% Recov	11/23/04	70.000	130.000	
MS	Uranium	7440-61-1	368	92.000	% Recov	11/23/04	70.000	130.000	
MSD	Silver	7440-22-4	378.845	94.711	% Recov	11/23/04	70.000	130.000	
MSD	Arsenic	7440-38-2	437.2	109.300	% Recov	11/23/04	70.000	130.000	
MSD	Barium	7440-39-3	399.06	99.765	% Recov	11/23/04	70.000	130.000	
MSD	Beryllium	7440-41-7	402.5902	100.648	% Recov	11/23/04	70.000	130.000	
MSD	Cadmium	7440-43-9	411.6	102.900	% Recov	11/23/04	70.000	130.000	
MSD	Chromium	7440-47-3	423.62	105.905	% Recov	11/23/04	70.000	130.000	
MSD	Copper	7440-50-8	413.44	103.360	% Recov	11/23/04	70.000	130.000	
MSD	Mercury	7439-97-6	20.37	101.850	% Recov	11/23/04	70.000	130.000	
MSD	Nickel	7440-02-0	407.57	101.893	% Recov	11/23/04	70.000	130.000	
MSD	Lead	7439-92-1	394.763	98.691	% Recov	11/23/04	70.000	130.000	
MSD	Antimony	7440-36-0	439.4	109.850	% Recov	11/23/04	70.000	130.000	
MSD	Selenium	7782-49-2	448.7	112.175	% Recov	11/23/04	70.000	130.000	
MSD	Uranium	7440-61-1	387.2	96.800	% Recov	11/23/04	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SPK-RPD	Silver	7440-22-4	94.711	11.589	RPD	11/23/04	0.000	20.000	
SPK-RPD	Arsenic	7440-38-2	109.300	3.443	RPD	11/23/04	0.000	20.000	
SPK-RPD	Barium	7440-39-3	99.765	0.375	RPD	11/23/04	0.000	20.000	
SPK-RPD	Beryllium	7440-41-7	100.648	3.256	RPD	11/23/04	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	102.900	4.217	RPD	11/23/04	0.000	20.000	
SPK-RPD	Chromium	7440-47-3	105.905	4.243	RPD	11/23/04	0.000	20.000	
SPK-RPD	Copper	7440-50-8	103.360	3.420	RPD	11/23/04	0.000	20.000	
SPK-RPD	Mercury	7439-97-6	101.850	2.687	RPD	11/23/04	0.000	20.000	
SPK-RPD	Nickel	7440-02-0	101.893	3.318	RPD	11/23/04	0.000	20.000	
SPK-RPD	Lead	7439-92-1	98.691	3.427	RPD	11/23/04	0.000	20.000	
SPK-RPD	Antimony	7440-36-0	109.850	4.729	RPD	11/23/04	0.000	20.000	
SPK-RPD	Selenium	7782-49-2	112.175	3.009	RPD	11/23/04	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	96.800	5.085	RPD	11/23/04	0.000	20.000	

BATCH QC

BLANK	Silver	7440-22-4	<1e-3	n/a	ug/g	11/23/04	-0.440	0.440	U
BLANK	Arsenic	7440-38-2	<0.24	n/a	ug/g	11/23/04	-0.660	0.660	U
BLANK	Barium	7440-39-3	<9.2e-2	n/a	ug/g	11/23/04	-0.440	0.440	U
BLANK	Beryllium	7440-41-7	2.992e-3	0.003	ug/g	11/23/04	-0.660	0.660	
BLANK	Cadmium	7440-43-9	<2e-3	n/a	ug/g	11/23/04	-0.220	0.220	U
BLANK	Chromium	7440-47-3	0.5024	0.502	ug/g	11/23/04	-0.660	0.660	
BLANK	Copper	7440-50-8	0.2224	0.222	ug/g	11/23/04	-1.100	1.100	
BLANK	Mercury	7439-97-6	0.1202	0.120	ug/g	11/23/04	-0.220	0.220	
BLANK	Nickel	7440-02-0	0.284	0.284	ug/g	11/23/04	-1.100	1.100	
BLANK	Lead	7439-92-1	<2.6e-2	n/a	ug/g	11/23/04	-2.640	2.640	U
BLANK	Antimony	7440-36-0	<0.714	n/a	ug/g	11/23/04	-1.100	1.100	U
BLANK	Selenium	7782-49-2	<7.3e-2	n/a	ug/g	11/23/04	-0.660	0.660	U
BLANK	Uranium	7440-61-1	<1.6e-2	n/a	ug/g	11/23/04	-0.220	0.220	U
LCS	Silver	7440-22-4	157	131.933	% Recov	11/23/04	110.000	170.000	
LCS	Arsenic	7440-38-2	208.1	106.718	% Recov	11/23/04	82.000	142.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Barium	7440-39-3	389.1	99.260	% Recov	11/23/04	79.000	123.000	
LCS	Beryllium	7440-41-7	80.09	106.361	% Recov	11/23/04	82.000	128.000	
LCS	Cadmium	7440-43-9	74.51	108.615	% Recov	11/23/04	88.000	127.000	
LCS	Chromium	7440-47-3	88.33	102.116	% Recov	11/23/04	50.000	126.000	
LCS	Copper	7440-50-8	134.2	105.669	% Recov	11/23/04	61.000	134.000	
LCS	Mercury	7439-97-6	10.89	115.728	% Recov	11/23/04	75.000	114.000	
LCS	Nickel	7440-02-0	91.28	109.187	% Recov	11/23/04	84.000	125.000	
LCS	Lead	7439-92-1	90.63	95.905	% Recov	11/23/04	87.000	120.000	
LCS	Antimony	7440-36-0	126	91.304	% Recov	11/23/04	61.000	135.000	
LCS	Selenium	7782-49-2	128.8	112.982	% Recov	11/23/04	83.000	145.000	
LCS	Uranium	7440-61-1	392.7	98.175	% Recov	11/23/04	89.000	107.000	

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Organic													
W040002092	B19187 GRP	107-21-1	Ethylene glycol	SOIL	Organics	U	< 1.00e+04	ug/kg	1.00	1.0e+04	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 500	ug/kg	1.00	5.0e+02	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	11/10/04	10/27/04	11/01/04
W040002092	B19187 GRP	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	129-00-0	Pyrene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	71-43-2	Benzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002092	B19187 GRP	108-88-3	Toluene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	100-42-5	Styrene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	67-64-1	Acetone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	67-66-3	Chloroform	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-25-2	Bromoform	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187 GRP	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002092	B19187	GRP	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187	GRP	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187	GRP	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002092	B19187	GRP	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	10/27/04	11/01/04
W040002092	B19187	GRP	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/10/04	10/27/04	11/01/04
W040002092	B19187	GRP	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	107-21-1	Ethylene glycol	SOIL	Organics	U	< 1.00e+04	ug/kg	1.00	1.0e+04	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 500	ug/kg	1.00	5.0e+02	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 670	ug/kg	1.00	6.7e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	129-00-0	Pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	10/27/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002093	B19190	GRP	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	71-43-2	Benzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	108-88-3	Toluene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	100-42-5	Styrene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	67-64-1	Acetone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	67-66-3	Chloroform	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190	GRP	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002093	B19190 GRP	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	75-25-2	Bromoform	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 5.20	ug/kg	1.00	5.2	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	10/27/04	11/01/04
W040002093	B19190 GRP	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/10/04	10/27/04	11/01/04
W040002093	B19190 GRP	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/10/04	10/27/04	11/01/04
W040002094	B19191 GRP	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00	2.5e+02	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	11/10/04	10/28/04	11/01/04
W040002094	B19191 GRP	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 660	ug/kg	1.00	6.6e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002094	B19191 GRP	129-00-0	Pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002094	B19191 GRP	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 41.0	ug/kg	1.00	41	11/09/04	10/28/04	11/01/04
W040002094	B19191 GRP	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	11/11/04	10/28/04	11/01/04
W040002094	B19191 GRP	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	11/11/04	10/28/04	11/01/04
W040002095	B19192 GRP	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	LA-523-443	U	< 250	ug/kg	1.00	2.5e+02	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04
W040002095	B19192 GRP	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	11/10/04	11/01/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002095	B19192	GRP	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 670	ug/kg	1.00	6.7e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	129-00-0	Pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192	GRP	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002095	B19192 GRP	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 41.0	ug/kg	1.00	41	11/09/04	11/01/04	11/01/04
W040002095	B19192 GRP	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/11/04	11/01/04	11/01/04
W040002095	B19192 GRP	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	11/11/04	11/01/04	11/01/04

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Alcohols, Glycols - 8015

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date: 11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	2-Bromoethanol	540-51-2	18000	90.000	% Recov	11/10/04	70.000	125.000	
MS	Ethylene glycol	107-21-1	39000	97.500	% Recov	11/10/04	75.000	125.000	
MSD	2-Bromoethanol	540-51-2	19000	95.000	% Recov	11/10/04	70.000	125.000	
MSD	Ethylene glycol	107-21-1	43000	107.500	% Recov	11/10/04	75.000	125.000	
SPK-RPD	2-Bromoethanol	540-51-2	95.000	5.405	RPD	11/10/04	0.000	20.000	
SPK-RPD	Ethylene glycol	107-21-1	107.500	9.756	RPD	11/10/04	0.000	20.000	
Lab ID: W040002094									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	2-Bromoethanol	540-51-2	7600	1.307	rpd	11/10/04	0.000	25.000	
DUP	Ethylene glycol	107-21-1	<5000	n/a	RPD	11/10/04	0.000	25.000	U
BATCH QC									
BLANK	2-Bromoethanol	540-51-2	7700	0.770	ug/Kg	11/10/04	0.000	10.000	
BLANK	Ethylene glycol	107-21-1	<5000	n/a	ug/Kg	11/10/04	0.000	5.000	U
LCS	2-Bromoethanol	540-51-2	8500	85.000	% Recov	11/10/04	70.000	130.000	
LCS	Ethylene glycol	107-21-1	7400	74.000	% Recov	11/10/04	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: PCBs complete list

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1050.9	102.000	% Recov	11/10/04	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	811.20	78.700	% Recov	11/10/04	50.000	150.000	
Lab ID: W040002093									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	963.62	95.500	% Recov	11/10/04	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	822.52	81.500	% Recov	11/10/04	50.000	150.000	
Lab ID: W040002094									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1100.8	110.000	% Recov	11/10/04	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	777.55	77.600	% Recov	11/10/04	50.000	150.000	
Lab ID: W040002095									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Aroclor-1260	11096-82-5	348.72	85.300	% Recov	11/10/04	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	796.86	77.900	% Recov	11/10/04	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	785.15	76.800	% Recov	11/10/04	50.000	150.000	
MSD	Aroclor-1260	11096-82-5	195.65	95.800	% Recov	11/10/04	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	896.05	87.700	% Recov	11/10/04	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	790.10	77.400	% Recov	11/10/04	50.000	150.000	
SPK-RPD	Aroclor-1260	11096-82-5	95.800	11.596	RPD	11/10/04	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	87.700	11.836	RPD	11/10/04	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	77.400	0.778	RPD	11/10/04	0.000	20.000	
SURR	Decachlorobiphenyl	2051-24-3	964.29	95.000	% Recov	11/10/04	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	654.97	64.500	% Recov	11/10/04	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: PCBs complete list

SAF Number: F03-025
Sample Date: 11/01/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	11/10/04			U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1260	11096-82-5	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1262	37324-23-5	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Aroclor-1268	11100-14-4	< 50	n/a	ug/Kg	11/10/04			U
BLANK	Decachlorobiphenyl	2051-24-3	843.05	84.300	% Recov	11/10/04	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	729.94	73.000	% Recov	11/10/04	50.000	150.000	
LCS	Aroclor-1260	11096-82-5	366.16	91.500	% Recov	11/10/04	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	751.28	75.100	% Recov	11/10/04	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	821.55	82.200	% Recov	11/10/04	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	3188.5	91.400	% Recov	11/09/04	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3406.3	97.700	% Recov	11/09/04	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3449.3	98.900	% Recov	11/09/04	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3309.2	94.900	% Recov	11/09/04	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3152.0	90.400	% Recov	11/09/04	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3309.2	94.900	% Recov	11/09/04	35.000	150.000	
Lab ID: W040002093									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	3209.3	92.500	% Recov	11/09/04	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3370.8	97.200	% Recov	11/09/04	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3415.2	98.500	% Recov	11/09/04	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3291.8	94.900	% Recov	11/09/04	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3101.5	89.400	% Recov	11/09/04	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3214.4	92.700	% Recov	11/09/04	35.000	150.000	
Lab ID: W040002094									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	3220.8	94.000	% Recov	11/09/04	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3302.4	96.400	% Recov	11/09/04	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3417.6	99.700	% Recov	11/09/04	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3341.6	97.500	% Recov	11/09/04	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	2696.9	78.700	% Recov	11/09/04	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3242.4	94.600	% Recov	11/09/04	35.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 11/01/04
Receive Date:11/01/04

Lab ID: W040002095
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,2,4-Trichlorobenzene	120-82-1	3193.3	92.800	% Recov	11/09/04	46.000	107.000	
MS	1,4-Dichlorobenzene	106-46-7	3171.2	92.100	% Recov	11/09/04	30.000	96.000	
MS	2,4-Dinitrotoluene	121-14-2	3124.6	90.800	% Recov	11/09/04	59.000	106.000	
MS	2-Fluorophenol	367-12-4	3322.8	96.500	% Recov	11/09/04	42.000	105.000	
MS	Acenaphthene	83-32-9	3338.4	97.000	% Recov	11/09/04	61.000	116.000	
MS	4-Chloro-3-methylphenol	59-50-7	4944.8	95.800	% Recov	11/09/04	61.000	106.000	
MS	2-Chlorophenol	95-57-8	4732.0	91.700	% Recov	11/09/04	66.000	106.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	3429.9	99.700	% Recov	11/09/04	71.000	114.000	
MS	2-Fluorobiphenyl	321-60-8	3418.4	99.300	% Recov	11/09/04	56.000	122.000	
MS	Phenol	108-95-2	5164.0	100.000	% Recov	11/09/04	42.000	111.000	
MS	Nitrobenzene-d5	4165-60-0	3375.5	98.100	% Recov	11/09/04	64.000	111.000	
MS	4-Nitrophenol	100-02-7	3388.8	65.600	% Recov	11/09/04	32.000	118.000	
MS	Pentachlorophenol	87-86-5	2702.8	52.400	% Recov	11/09/04	62.000	114.000	
MS	Phenol-d5	4165-62-2	3424.8	99.500	% Recov	11/09/04	54.000	120.000	
MS	Pyrene	129-00-0	3086.4	89.700	% Recov	11/09/04	66.000	118.000	
MS	2,4,6-Tribromophenol	118-79-6	2770.4	80.500	% Recov	11/09/04	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	3267.1	94.900	% Recov	11/09/04	35.000	150.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	3205.5	93.200	% Recov	11/09/04	46.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	3032.1	88.100	% Recov	11/09/04	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	3054.5	88.800	% Recov	11/09/04	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	3319.8	96.500	% Recov	11/09/04	42.000	105.000	
MSD	Acenaphthene	83-32-9	3253.6	94.600	% Recov	11/09/04	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	5149.2	99.800	% Recov	11/09/04	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	4644.4	90.000	% Recov	11/09/04	66.000	106.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	3454.1	100.000	% Recov	11/09/04	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	3356.0	97.600	% Recov	11/09/04	56.000	122.000	
MSD	Phenol	108-95-2	4918.5	95.300	% Recov	11/09/04	42.000	111.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 11/01/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Nitrobenzene-d5	4165-60-0	3430.4	99.700	% Recov	11/09/04	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	3247.6	62.900	% Recov	11/09/04	32.000	118.000	
MSD	Pentachlorophenol	87-86-5	2789.0	54.100	% Recov	11/09/04	62.000	114.000	
MSD	Phenol-d5	4165-62-2	3372.5	98.000	% Recov	11/09/04	54.000	120.000	
MSD	Pyrene	129-00-0	3036.4	88.300	% Recov	11/09/04	66.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	2722.2	79.100	% Recov	11/09/04	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	3221.8	93.700	% Recov	11/09/04	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	93.200	0.430	RPD	11/09/04	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	88.100	4.440	RPD	11/09/04	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	88.800	2.227	RPD	11/09/04	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	96.500	0.000	RPD	11/09/04	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	94.600	2.505	RPD	11/09/04	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	99.800	4.090	RPD	11/09/04	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	90.000	1.871	RPD	11/09/04	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	100.000	0.300	RPD	11/09/04	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	97.600	1.727	RPD	11/09/04	0.000	20.000	
SPK-RPD	Phenol	108-95-2	95.300	4.813	RPD	11/09/04	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	99.700	1.618	RPD	11/09/04	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	62.900	4.202	RPD	11/09/04	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-86-5	54.100	3.192	RPD	11/09/04	0.000	20.000	
SPK-RPD	Phenol-d5	4165-62-2	98.000	1.519	RPD	11/09/04	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	88.300	1.573	RPD	11/09/04	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	79.100	1.754	RPD	11/09/04	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	93.700	1.273	RPD	11/09/04	0.000	20.000	
SURR	2-Fluorophenol	367-12-4	3168.8	91.900	% Recov	11/09/04	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3366.0	97.700	% Recov	11/09/04	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3451.4	100.000	% Recov	11/09/04	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3341.6	97.000	% Recov	11/09/04	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	2598.2	75.400	% Recov	11/09/04	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3212.2	93.200	% Recov	11/09/04	35.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 11/01/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 290	n/a	ug/Kg	11/09/04			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 310	n/a	ug/Kg	11/09/04			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Fluorophenol	367-12-4	3017.4	90.500	% Recov	11/09/04	42.000	105.000	
BLANK	Acenaphthene	83-32-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Chlorophenol	95-57-8	< 150	n/a	ug/Kg	11/09/04			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Fluorobiphenyl	321-60-8	3234.2	97.000	% Recov	11/09/04	56.000	122.000	
BLANK	Phenol	108-95-2	< 100	n/a	ug/Kg	11/09/04			U
BLANK	Nitrobenzene-d5	4165-60-0	3340.8	100.000	% Recov	11/09/04	64.000	111.000	
BLANK	4-Nitrophenol	100-02-7	< 650	n/a	ug/Kg	11/09/04			U
BLANK	Pentachlorophenol	87-86-5	< 300	n/a	ug/Kg	11/09/04			U
BLANK	Phenol-d5	4165-62-2	3099.3	93.000	% Recov	11/09/04	54.000	120.000	
BLANK	Pyrene	129-00-0	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Tributyl phosphate	126-73-8	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2,4,6-Tribromophenol	118-79-6	2606.8	78.200	% Recov	11/09/04	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	3118.0	93.500	% Recov	11/09/04	35.000	150.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	2751.3	82.500	% Recov	11/09/04	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	2663.4	79.900	% Recov	11/09/04	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	2671.4	80.100	% Recov	11/09/04	59.000	106.000	
LCS	2-Fluorophenol	367-12-4	2800.9	84.000	% Recov	11/09/04	50.000	110.000	
LCS	Acenaphthene	83-32-9	2711.1	81.300	% Recov	11/09/04	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	4217.0	84.300	% Recov	11/09/04	61.000	106.000	
LCS	2-Chlorophenol	95-57-8	4040.9	80.800	% Recov	11/09/04	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	2887.4	86.600	% Recov	11/09/04	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	2741.6	82.200	% Recov	11/09/04	58.000	109.000	
LCS	Phenol	108-95-2	4341.9	86.800	% Recov	11/09/04	67.000	105.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Nitrobenzene-d5	4165-60-0	2887.5	86.600	% Recov	11/09/04	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	3385.5	67.700	% Recov	11/09/04	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	3004.3	60.100	% Recov	11/09/04	62.000	114.000	
LCS	Phenol-d5	4165-62-2	2815.6	84.500	% Recov	11/09/04	59.000	116.000	
LCS	Pyrene	129-00-0	2500.7	75.000	% Recov	11/09/04	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	2830.7	84.900	% Recov	11/09/04	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	2670.1	80.100	% Recov	11/09/04	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Kerosene	TPHKEROSENE	< 3800	n/a	ug/Kg	11/10/04			U
BLANK	ortho-Terphenyl Surr	84-15-1	20328	81.300	% Recov	11/10/04	70.000	130.000	
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3800	n/a	ug/Kg	11/10/04			U
LCS	Kerosene	TPHKEROSENE	118340	94.700	% Recov	11/10/04	70.000	130.000	
LCS	ortho-Terphenyl Surr	84-15-1	21784	87.100	% Recov	11/10/04	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F03-025
Sample Date: 10/28/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002094									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<200	n/a	RPD	11/10/04	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	7400	104.225	% Recov	11/10/04	50.000	150.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	7000	98.592	% Recov	11/10/04	50.000	150.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	98.592	5.555	RPD	11/10/04	0.000	20.000	
BATCH QC									
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<200	n/a	mg/L	11/10/04	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	1116	87.461	% Recov	11/10/04	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date: 10/28/04
Receive Date:10/28/04

Lab ID: W040002070
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,1-Dichloroethene	75-35-4	56.620	101.000	% Recov	11/09/04	63.000	117.000	
MS	Benzene	71-43-2	65.220	116.000	% Recov	11/09/04	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	110.80	98.400	% Recov	11/09/04	84.000	116.000	
MS	Chlorobenzene	108-90-7	64.540	115.000	% Recov	11/09/04	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	134.70	120.000	% Recov	11/09/04	82.000	136.000	
MS	Toluene-d8	2037-26-5	121.90	108.000	% Recov	11/09/04	89.000	119.000	
MS	Toluene	108-88-3	65.620	117.000	% Recov	11/09/04	76.000	120.000	
MS	Trichloroethene	79-01-6	63.100	112.000	% Recov	11/09/04	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	55.180	98.000	% Recov	11/09/04	63.000	117.000	
MSD	Benzene	71-43-2	63.640	113.000	% Recov	11/09/04	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	107.80	95.700	% Recov	11/09/04	84.000	116.000	
MSD	Chlorobenzene	108-90-7	65.290	116.000	% Recov	11/09/04	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	130.40	116.000	% Recov	11/09/04	82.000	136.000	
MSD	Toluene-d8	2037-26-5	120.60	107.000	% Recov	11/09/04	89.000	119.000	
MSD	Toluene	108-88-3	64.100	114.000	% Recov	11/09/04	76.000	120.000	
MSD	Trichloroethene	79-01-6	60.320	107.000	% Recov	11/09/04	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	98.000	3.015	RPD	11/09/04	0.000	25.000	
SPK-RPD	Benzene	71-43-2	113.000	2.620	RPD	11/09/04	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	95.700	2.782	RPD	11/09/04	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	116.000	0.866	RPD	11/09/04	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	116.000	3.390	RPD	11/09/04	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	107.000	0.930	RPD	11/09/04	0.000	25.000	
SPK-RPD	Toluene	108-88-3	114.000	2.597	RPD	11/09/04	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	107.000	4.566	RPD	11/09/04	0.000	25.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	266.80	102.000	% Recov	11/09/04	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	299.10	114.000	% Recov	11/09/04	80.000	134.000	
SURR	Toluene-d8	2037-26-5	278.00	106.000	% Recov	11/09/04	80.000	126.000	
Lab ID: W040002093									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	259.10	99.300	% Recov	11/09/04	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	303.70	116.000	% Recov	11/09/04	80.000	134.000	
SURR	Toluene-d8	2037-26-5	279.70	107.000	% Recov	11/09/04	80.000	126.000	
Lab ID: W040002094									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	99.770	97.300	% Recov	11/09/04	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	122.40	119.000	% Recov	11/09/04	80.000	134.000	
SURR	Toluene-d8	2037-26-5	109.80	107.000	% Recov	11/09/04	80.000	126.000	
Lab ID: W040002095									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	100.70	97.200	% Recov	11/09/04	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	122.50	118.000	% Recov	11/09/04	80.000	134.000	
SURR	Toluene-d8	2037-26-5	110.00	106.000	% Recov	11/09/04	80.000	126.000	
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	11/09/04			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	11/09/04			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	4-Bromofluorobenzene	460-00-4	99.880	99.900	% Recov	11/09/04	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	119.90	120.000	% Recov	11/09/04	80.000	134.000	
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Toluene-d8	2037-26-5	106.90	107.000	% Recov	11/09/04	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	11/09/04			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	11/09/04			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	11/09/04			U
LCS	1,1-Dichloroethene	75-35-4	47.910	95.800	% Recov	11/09/04	70.000	130.000	
LCS	Benzene	71-43-2	57.220	114.000	% Recov	11/09/04	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	102.30	102.000	% Recov	11/09/04	71.000	125.000	
LCS	Chlorobenzene	108-90-7	57.150	114.000	% Recov	11/09/04	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	118.20	118.000	% Recov	11/09/04	80.000	134.000	
LCS	Toluene-d8	2037-26-5	101.90	102.000	% Recov	11/09/04	80.000	126.000	
LCS	Toluene	108-88-3	54.720	109.000	% Recov	11/09/04	70.000	130.000	
LCS	Trichloroethene	79-01-6	52.320	105.000	% Recov	11/09/04	70.000	130.000	

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry														
W040002092	B19187	GRP	14596-10-2	Americium-241	SOIL	LA-508-471		4.40	pCi/g	1.00	0.043	11/19/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 1.1	pCi/g	1.00	0.0	11/19/04	10/27/04	11/01/04
W040002092	B19187	GRP	14234-35-6	Antimony-125	SOIL	LA-508-481		0.866	pCi/g	1.00	0.68	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.46	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	10198-40-0	Cobalt-60	SOIL	LA-508-481		0.398	pCi/g	1.00	0.022	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.051	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	13967-70-9	Cesium-134	SOIL	LA-508-481	U	0.0226	pCi/g	1.00	0.043	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.025	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	10045-97-3	Cesium-137	SOIL	LA-508-481		652	pCi/g	1.00	0.16	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 80	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	14683-23-9	Europium-152	SOIL	LA-508-481	U	0.0281	pCi/g	1.00	0.60	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.28	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	15585-10-1	Europium-154	SOIL	LA-508-481		0.623	pCi/g	1.00	0.076	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.097	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	14391-16-3	Europium-155	SOIL	LA-508-481	U	-0.181	pCi/g	1.00	0.59	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.36	pCi/g	1.00	0.0	11/17/04	10/27/04	11/01/04
W040002092	B19187	GRP	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	5.20e-03	pCi/g	1.00	0.019	11/24/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 5.2e-03	pCi/g	1.00	0.0	11/24/04	10/27/04	11/01/04
W040002092	B19187	GRP	13981-16-3	Plutonium-238	SOIL	LA-508-471		0.290	pCi/g	1.00	0.065	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.096	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		5.80	pCi/g	1.00	0.017	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 1.5	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	U-233/234	Uranium-233/234	SOIL	LA-508-471		34.0	pCi/g	1.00	0.011	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 8.8	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	15117-96-1	Uranium-235	SOIL	LA-508-471		1.70	pCi/g	1.00	0.012	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.48	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ		Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002092	B19187	GRP	U-238	Uranium-238	SOIL	LA-508-471			24.0	pCi/g	1.00	0.011	11/21/04	10/27/04	11/01/04
W040002092	B19187	GRP	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+-	6.2	pCi/g	1.00	0.10	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	14596-10-2	Americium-241	SOIL	LA-508-471			4.40	pCi/g	1.00	0.029	11/19/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+-	1.1	pCi/g	1.00	0.0	11/19/04	10/27/04	11/01/04
W040002093	B19190	GRP	14234-35-6	Antimony-125	SOIL	LA-508-481			2.39	pCi/g	1.00	1.7	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	1.3	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	10198-40-0	Cobalt-60	SOIL	LA-508-481			1.01	pCi/g	1.00	0.038	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	0.15	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	13967-70-9	Cesium-134	SOIL	LA-508-481	U		0.0413	pCi/g	1.00	0.13	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	0.078	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	10045-97-3	Cesium-137	SOIL	LA-508-481			2.72e+03	pCi/g	1.00	0.39	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	4.6e+02	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	14683-23-9	Europium-152	SOIL	LA-508-481	U		-0.374	pCi/g	1.00	1.6	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	0.98	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	15585-10-1	Europium-154	SOIL	LA-508-481			1.40	pCi/g	1.00	0.20	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	0.31	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	14391-16-3	Europium-155	SOIL	LA-508-481	U		-1.24	pCi/g	1.00	1.8	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481		+-	1.2	pCi/g	1.00	0.0	11/10/04	10/27/04	11/01/04
W040002093	B19190	GRP	13994-20-2	Neptunium-237	SOIL	LA-508-471	U		8.10e-03	pCi/g	1.00	0.012	11/24/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+-	8.1e-03	pCi/g	1.00	0.0	11/24/04	10/27/04	11/01/04
W040002093	B19190	GRP	13981-16-3	Plutonium-238	SOIL	LA-508-471			0.410	pCi/g	1.00	0.070	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+-	0.12	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471			5.90	pCi/g	1.00	0.019	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+-	1.5	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	U-233/234	Uranium-233/234	SOIL	LA-508-471			36.0	pCi/g	1.00	0.032	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+-	9.4	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	15117-96-1	Uranium-235	SOIL	LA-508-471			1.70	pCi/g	1.00	0.013	11/21/04	10/27/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002093	B19190	GRP	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.48	pCi/g	1.00	0.0	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	U-238	Uranium-238	SOIL	LA-508-471		27.0	pCi/g	1.00	0.012	11/21/04	10/27/04	11/01/04
W040002093	B19190	GRP	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 7.0	pCi/g	1.00	0.10	11/21/04	10/27/04	11/01/04
W040002094	B19191	GRP	14596-10-2	Americium-241	SOIL	LA-508-471		0.260	pCi/g	1.00	0.034	11/19/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.081	pCi/g	1.00	0.0	11/19/04	10/28/04	11/01/04
W040002094	B19191	GRP	14234-35-6	Antimony-125	SOIL	LA-508-481		0.0736	pCi/g	1.00	0.042	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.036	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	10198-40-0	Cobalt-60	SOIL	LA-508-481		0.0515	pCi/g	1.00	0.019	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.012	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	13967-70-9	Cesium-134	SOIL	LA-508-481		0.0300	pCi/g	1.00	0.019	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.013	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	10045-97-3	Cesium-137	SOIL	LA-508-481		0.336	pCi/g	1.00	0.015	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.051	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	14683-23-9	Europium-152	SOIL	LA-508-481	U	0.0172	pCi/g	1.00	0.048	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.054	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	15585-10-1	Europium-154	SOIL	LA-508-481		0.205	pCi/g	1.00	0.064	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.041	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	14391-16-3	Europium-155	SOIL	LA-508-481		0.115	pCi/g	1.00	0.079	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.061	pCi/g	1.00	0.0	11/08/04	10/28/04	11/01/04
W040002094	B19191	GRP	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	-1.50e-03	pCi/g	1.00	0.014	11/24/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 0.015	pCi/g	1.00	0.0	11/24/04	10/28/04	11/01/04
W040002094	B19191	GRP	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	0.0460	pCi/g	1.00	0.052	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.036	pCi/g	1.00	0.0	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		0.0720	pCi/g	1.00	0.025	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.032	pCi/g	1.00	0.0	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.150	pCi/g	1.00	0.015	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.052	pCi/g	1.00	0.0	11/21/04	10/28/04	11/01/04

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-025: F03-025

Group #: WSCF20042022

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002094	B19191	GRP	15117-96-1	Uranium-235	SOIL	LA-508-471		6.70e-03	pCi/g	1.00	6.0e-03	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 8.0e-03	pCi/g	1.00	0.0	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	U-238	Uranium-238	SOIL	LA-508-471		0.120	pCi/g	1.00	5.5e-03	11/21/04	10/28/04	11/01/04
W040002094	B19191	GRP	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.043	pCi/g	1.00	0.10	11/21/04	10/28/04	11/01/04
W040002095	B19192	GRP	14596-10-2	Americium-241	SOIL	LA-508-471		3.10	pCi/g	1.00	0.016	11/19/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.68	pCi/g	1.00	0.0	11/19/04	11/01/04	11/01/04
W040002095	B19192	GRP	14234-35-6	Antimony-125	SOIL	LA-508-481		0.117	pCi/g	1.00	0.052	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.053	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	10198-40-0	Cobalt-60	SOIL	LA-508-481		0.524	pCi/g	1.00	0.015	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.073	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	13967-70-9	Cesium-134	SOIL	LA-508-481	U	0.0573	pCi/g	1.00	0.024	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.022	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	10045-97-3	Cesium-137	SOIL	LA-508-481		0.724	pCi/g	1.00	0.021	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.13	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	14683-23-9	Europium-152	SOIL	LA-508-481	U	0.0643	pCi/g	1.00	0.057	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.039	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	15585-10-1	Europium-154	SOIL	LA-508-481		4.65	pCi/g	1.00	0.051	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.62	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	14391-16-3	Europium-155	SOIL	LA-508-481		2.14	pCi/g	1.00	0.093	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481		+- 0.31	pCi/g	1.00	0.0	11/17/04	11/01/04	11/01/04
W040002095	B19192	GRP	13994-20-2	Neptunium-237	SOIL	LA-508-471	X	0.0110	pCi/g	1.00	4.2e-03	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 0.011	pCi/g	1.00	0.0	11/23/04	11/01/04	11/01/04
W040002095	B19192	GRP	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	0.0570	pCi/g	1.00	0.063	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.043	pCi/g	1.00	0.0	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		0.190	pCi/g	1.00	0.021	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.063	pCi/g	1.00	0.0	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.240	pCi/g	1.00	0.017	11/21/04	11/01/04	11/01/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
U - Analyzed for but not detected above limiting criteria.
E - Analyte is an estimate, has potentially larger errors
X - Other flags and notes described in the comments/narrative.

DF = Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20042022
Project: F03-025: F03-025

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002095	B19192	GRP	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.074	pCi/g	1.00	0.0	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	15117-96-1	Uranium-235	SOIL	LA-508-471	U	6.00e-03	pCi/g	1.00	0.019	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.011	pCi/g	1.00	0.0	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	U-238	Uranium-238	SOIL	LA-508-471		0.200	pCi/g	1.00	0.014	11/21/04	11/01/04	11/01/04
W040002095	B19192	GRP	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.064	pCi/g	1.00	0.10	11/21/04	11/01/04	11/01/04

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorganic) E - Analyte is an estimate, has potentially larger errors
RQ = Result Qualifier U - Analyzed for but not detected above limiting criteria. X - Other flags and notes described in the comments/narrative.

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

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Americium by AEA

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Americium-241	14596-10-2	4.1e+00	7.059	RPD	11/19/04	0.000	20.000	
BATCH QC									
BLANK	Americium-241	14596-10-2	U1.1e-02	n/a	pCi/g	11/19/04	-10.000	1000.000	
LCS	Americium-241	14596-10-2	4.6e+01	100.000	% Recov	11/19/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-025
Sample Date: 11/02/04
Receive Date:11/02/04

Lab ID: W040002103

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Cobalt-60	10198-40-0	U3.71e-03	n/a	RPD	11/09/04	0.000	20.000	
DUP	Cesium-134	13967-70-9	U1.34e-02	n/a	RPD	11/09/04	0.000	20.000	
DUP	Cesium-137	10045-97-3	U-5.00e-4	n/a	RPD	11/09/04	0.000	20.000	
DUP	Europium-152	14683-23-9	U1.27e-02	n/a	RPD	11/09/04	0.000	20.000	
DUP	Europium-154	15585-10-1	U1.90e-02	n/a	RPD	11/09/04	0.000	20.000	
DUP	Europium-155	14391-16-3	U2.72e-02	n/a	RPD	11/09/04	0.000	20.000	
DUP	Antimony-125	14234-35-6	U6.26e-03	n/a	RPD	11/09/04	0.000	20.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Cobalt-60	10198-40-0	U-9.9e-4	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Cesium-134	13967-70-9	U-4.6e-4	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-2.8e-3	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Europium-152	14683-23-9	U6.55e-3	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Europium-154	15585-10-1	U-5.7e-3	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Europium-155	14391-16-3	U4.91e-3	n/a	pCi/g	11/09/04	-10.000	1000.000	
BLANK	Antimony-125	14234-35-6	U1.07e-3	n/a	pCi/g	11/09/04	-10.000	1000.000	
LCS	Cobalt-60	10198-40-0	4.24e+03	101.193	% Recov	11/09/04	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.79e+03	105.866	% Recov	11/09/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Neptunium by AEA

SAF Number: F03-025
Sample Date: 10/26/04
Receive Date:11/04/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002150									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Neptunium-237	13994-20-2	1.2e-02	0.000	RPD	11/23/04	0.000	25.000	
BATCH QC									
BLANK	Neptunium-237	13994-20-2	4.7e-03	0.005	pCi/g	11/23/04	-10.000	1000.000	
LCS	Neptunium-237	13994-20-2	36.5	36.500	% Recov	11/23/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Neptunium by AEA

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date: 11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Neptunium-237	13994-20-2	1.8e-03	97.143	RPD	11/24/04	0.000	25.000	*
BATCH QC									
BLANK	Neptunium-237	13994-20-2	1.6e-03	0.002	pCi/g	11/24/04	-10.000	1000.000	
LCS	Neptunium-237	13994-20-2	24.0	24.000	% Recov	11/24/04	75.000	125.000	*

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Plutonium Isotopics by AEA

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Pu-239/240 by AEA	PU-239/240	5.8e+00	0.000	RPD	11/21/04	0.000	20.000	
BATCH QC									
BLANK	Plutonium-238	13981-16-3	U-9.2e-03	n/a	PCT	11/21/04	0.000	1000.000	
BLANK	Pu-239/240 by AEA	PU-239/240	U4.6e-03	n/a	pCi/g	11/21/04	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	4.7e+01	97.713	% Recov	11/21/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042022
Matrix: SOLID
Test: Uranium Isotopics by AEA

SAF Number: F03-025
Sample Date: 10/27/04
Receive Date:11/01/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002092									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Uranium-238	U-238	2.4e+01	0.000	RPD	11/21/04	0.000	20.000	
BATCH QC									
BLANK	Uranium-238	24678-82-8	U9.7e-03	n/a	pCi/g	11/21/04	-10.000	1000.000	
LCS	Uranium-238	24678-82-8	8.3e+01	109.470	% Recov	11/21/04	75.000	125.000	

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-025

Group #: WSCF20042022

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		IC Anions: Fluoride DUP acceptance criterion not applicable for sample results < 10X MDL; B flag Phosphate-P matrix spikes biased low probably due to matrix effect; B,E flags for sample results > MDL ORGANICS: Sample concentrations are corrected for moisture and reported dry weight basis. gar SVOA: Pentachlorophenol is out low in the LCS, MS and MSD. den The following came from the GEA report: W040002092 Am-241 detected at 3.3 pCi/g. W040002093 Am-241 detected at 8.3 pCi/g. W040002094 Am-241 detected at 0.2 pCi/g. W040002095 Am-241 detected at 0.5 pCi/g. W040002092-2094/Np237 duplicate and sample are below MDA. Np237 LCS is low so the sample result is an estimated value. This is the reason for the X flag.lmh ICP-MS: Various elements with high preparation blank results; sample results >MDL but <20X blank are C flagged. (Note: Blank results are ug/L and sample results are ug/g) Mercury LCS recovery is within manufacturers specifications; no flag. ICP-AES: Blank contained .111 ug/g, all results >than MDL and less

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 F03-025

Group #: WSCF20042022

Sample #	Client ID	Lab Area	Test	Comment
				than 20 times the blank value will receive "C" flag. Idl

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
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F03-025 :F03-025

Group #: WSCF20042022

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	SN-126 Count Error				23	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	AM-241 Count Error				24	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	TH-234 Count Error				29	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	PB-212 Count Error				31	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	AC-228 Count Error				34	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	RA-228 Count Error				34	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	BI-214 Count Error				46	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	RA-226 Count Error				46	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	TL-208 Count Error				49	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	K-40 Count Error				9.7	%
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	TL-208				0.23	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	AC-228				0.42	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	RA-228				0.42	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	PB-212				0.73	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	TH-234				18	pCi/g
W040002092	B19187	GRP	Gamma Energy Analysis-grd H2O	SN-126				3.0	pCi/g
W040002092	B19187	GRP	SW-846 8270B Semi-Vols	SMP 14.769 Di-n-butylphthalate	84-74-2	14.76915		1.7e+03	ug/kg
W040002092	B19187	GRP	SW-846 8270B Semi-Vols	SMP 4.928 2-Butoxyethanol	111-76-2	4.9285		1.3e+02	ug/kg
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	SN-126 Count Error				19	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	AM-241 Count Error				29	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	TH-234 Count Error				37	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	AC-228 Count Error				37	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	RA-228 Count Error				37	%

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F03-025 :F03-025

Group #: WSCF20042022

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	PB-212 Count Error				38	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	TL-208 Count Error				41	%
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	TL-208				0.71	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	AC-228				0.94	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	RA-228				0.94	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	PB-212				1.9	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	K-40				23	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	TH-234				45	pCi/g
W040002093	B19190	GRP	Gamma Energy Analysis-grd H2O	SN-126				6.8	pCi/g
W040002093	B19190	GRP	SW-846 8270B Semi-Vols	SMP 14.768 Di-n-butylphthalate	84-74-2	14.76845		9.8e+02	ug/kg
W040002093	B19190	GRP	SW-846 8270B Semi-Vols	SMP 4.927 2-Butoxyethanol	111-76-2	4.927816		1.5e+02	ug/kg
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	PB-214 Count Error				11	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	TL-208 Count Error				14	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	BI-214 Count Error				15	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	RA-226 Count Error				15	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	AC-228 Count Error				15	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	RA-228 Count Error				15	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	SN-126 Count Error				21	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	BI-212 Count Error				25	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	BA-133 Count Error				33	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	U-235 Count Error				43	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	TH-234 Count Error				44	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	K-40 Count Error				9.0	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	PB-212 Count Error				9.4	%
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	BA-133				0.046	pCi/g

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F03-025 :F03-025

Group #: WSCF20042022

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	TL-208				0.23	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	SN-126				0.46	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	AC-228				0.79	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	RA-228				0.79	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	PB-212				0.84	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	TH-234				0.94	pCi/g
W040002094	B19191	GRP	Gamma Energy Analysis-grd H2O	K-40				21	pCi/g
W040002094	B19191	GRP	SW-846 8270B Semi-Vols	SMP 10.957 Diethylphthalate	84-66-2	10.95741		3.7e+02	ug/kg
W040002094	B19191	GRP	SW-846 8270B Semi-Vols	SMP 14.769 Di-n-butylphthalate	84-74-2	14.769		1.3e+03	ug/kg
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	SN-126 Count Error				15	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	PB-214 Count Error				15	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	AM-241 Count Error				15	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	TL-208 Count Error				18	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	AC-228 Count Error				19	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	RA-228 Count Error				19	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	BI-214 Count Error				19	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	RA-226 Count Error				19	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	BI-212 Count Error				36	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	TH-234 Count Error				39	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	U-235 Count Error				43	%
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	TL-208				0.29	pCi/g
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	AC-228				0.72	pCi/g
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	RA-228				0.72	pCi/g

RQ = Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F03-025 :F03-025

Group #: WSCF20042022

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	PB-212				0.78	pCi/g
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	TH-234				1.0	pCi/g
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	SN-126				1.7	pCi/g
W040002095	B19192	GRP	Gamma Energy Analysis-grd H2O	K-40				20	pCi/g
W040002095	B19192	GRP	SW-846 8270B Semi-Vols	SMP 14.769 Di-n-butylphthalate	84-74-2	14.76983		9.7e+02	ug/kg

RQ=Result Qualifier

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

WSCF
METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-212-411	Determination of Soil pH Measurement	
	EPA SW-846 9045C	SOIL AND WASTE pH
LA-503-401	LA-503-401: ANALYSIS OF CATIONS BY ION CHROMATOGRAPHY	
	EPA-600/4-86-024 300.7	Dissolved Sodium, Ammonium, Potassium, and Calcium in Wet Deposition by Chemical
LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE	
	EPA SW-846 6010B	INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY
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
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP	
	None	No reference to any industry method.
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE	
	None	No reference to any industry method.
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C	
	EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	Standard Methods 2540B	Total Solids Dried at 103-105 C
LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY	
	EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

WSCF
METHOD REFERENCES REPORT

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	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
LA-523-443	LA-523-443: GAS CHROMATOGRAPH ANALYSIS OF GASOLINE RANGE TOTAL PETROLEUM HYDROCA	
	WDOE TPH NWTPH-G	Volatile Petroleum Products Method for Soil and Water
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)
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)
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY	
	EPA-600/R-94-111 300	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
NWTPH	NWTPH-Diesel and/or Gasoline	
	WDOE NWTPH-Dx/Gx	Total Petroleum Hydrocarbons - Diesel/Gasoline
Organics	Organics - Alcohols, Glycols	

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

WSCF
METHOD REFERENCES REPORT

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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 \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

w13qlog v1 06-dec-2004 15:14:35

W13q Worklist/Batch/QC Report for Group# WSCF20042022

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W040002092	Percent Solids
				SAMPLE	W040002093	Percent Solids
				SAMPLE	W040002094	Percent Solids
				SAMPLE	W040002095	Percent Solids
				SAMPLE	W040002092	pH Soil and Waste Measurement
				SAMPLE	W040002093	pH Soil and Waste Measurement
				SAMPLE	W040002094	pH Soil and Waste Measurement
				SAMPLE	W040002095	pH Soil and Waste Measurement
			27580	BLANK		Cyanide by Midi/Spectrophotom
			27580	BLNK-PREP		Cyanide by Midi/Spectrophotom
			27580	LCS		Cyanide by Midi/Spectrophotom
			27580	SAMPLE	W040002092	Cyanide by Midi/Spectrophotom
			27580	SAMPLE	W040002093	Cyanide by Midi/Spectrophotom
			27580	SAMPLE	W040002094	Cyanide by Midi/Spectrophotom
			27580	SAMPLE	W040002095	Cyanide by Midi/Spectrophotom
			27580	MS	W040002103	Cyanide by Midi/Spectrophotom
			27580	MSD	W040002103	Cyanide by Midi/Spectrophotom
			27580	SPK-RPD	W040002103	Cyanide by Midi/Spectrophotom
24003	2	24360	27644	BLANK		Anions by Ion Chromatography
24003	12	24360	27644	BLANK		Anions by Ion Chromatography
24003	3	24360	27644	LCS		Anions by Ion Chromatography
24003	5	24360	27644	DUP	W040002092	Anions by Ion Chromatography
24003	6	24360	27644	MS	W040002092	Anions by Ion Chromatography
24003	7	24360	27644	MSD	W040002092	Anions by Ion Chromatography
24003	4	24360	27644	SAMPLE	W040002092	Anions by Ion Chromatography
24003	8	24360	27644	SAMPLE	W040002093	Anions by Ion Chromatography
24003	9	24360	27644	SAMPLE	W040002094	Anions by Ion Chromatography
24003	10	24360	27644	SAMPLE	W040002095	Anions by Ion Chromatography
			27667	BLANK		SW-846 8270B Semi-Vols
			27667	LCS		SW-846 8270B Semi-Vols
			27667	SAMPLE	W040002092	SW-846 8270B Semi-Vols
			27667	SURR	W040002092	SW-846 8270B Semi-Vols
			27667	SAMPLE	W040002093	SW-846 8270B Semi-Vols
			27667	SURR	W040002093	SW-846 8270B Semi-Vols
			27667	SAMPLE	W040002094	SW-846 8270B Semi-Vols
			27667	SURR	W040002094	SW-846 8270B Semi-Vols
			27667	MS	W040002095	SW-846 8270B Semi-Vols
			27667	MSD	W040002095	SW-846 8270B Semi-Vols
			27667	SAMPLE	W040002095	SW-846 8270B Semi-Vols
			27667	SPK-RPD	W040002095	SW-846 8270B Semi-Vols
			27667	SURR	W040002095	SW-846 8270B Semi-Vols
			27668	BLANK		WTPH-D TPH Diesel Range (Wa)
			27668	LCS		WTPH-D TPH Diesel Range (Wa)
			27668	SAMPLE	W040002092	WTPH-D TPH Diesel Range (Wa)
			27668	SAMPLE	W040002093	WTPH-D TPH Diesel Range (Wa)
			27668	SAMPLE	W040002094	WTPH-D TPH Diesel Range (Wa)
			27668	SAMPLE	W040002095	WTPH-D TPH Diesel Range (Wa)
			27723	BLANK		PCBs complete list
			27723	LCS		PCBs complete list

			27723	SAMPLE	W040002092	PCBs complete list
			27723	SURR	W040002092	PCBs complete list
			27723	SAMPLE	W040002093	PCBs complete list
			27723	SURR	W040002093	PCBs complete list
			27723	SAMPLE	W040002094	PCBs complete list
			27723	SURR	W040002094	PCBs complete list
			27723	MS	W040002095	PCBs complete list
			27723	MSD	W040002095	PCBs complete list
			27723	SAMPLE	W040002095	PCBs complete list
			27723	SPK-RPD	W040002095	PCBs complete list
			27723	SURR	W040002095	PCBs complete list
23955	1	24313	27738	BLANK		Gamma Energy Analysis-grd H2O
23955	2	24313	27738	LCS		Gamma Energy Analysis-grd H2O
23955	4	24313	27738	SAMPLE	W040002092	Gamma Energy Analysis-grd H2O
23955	5	24313	27738	SAMPLE	W040002093	Gamma Energy Analysis-grd H2O
23955	6	24313	27738	SAMPLE	W040002094	Gamma Energy Analysis-grd H2O
23955	7	24313	27738	SAMPLE	W040002095	Gamma Energy Analysis-grd H2O
23955	3	24313	27738	DUP	W040002103	Gamma Energy Analysis-grd H2O
24083	1	24442	27782	BLANK		Uranium Isotopics by AEA
24083	2	24442	27782	LCS		Uranium Isotopics by AEA
24083	3	24442	27782	DUP	W040002092	Uranium Isotopics by AEA
24083	4	24442	27782	SAMPLE	W040002092	Uranium Isotopics by AEA
24083	5	24442	27782	SAMPLE	W040002093	Uranium Isotopics by AEA
24083	6	24442	27782	SAMPLE	W040002094	Uranium Isotopics by AEA
24083	7	24442	27782	SAMPLE	W040002095	Uranium Isotopics by AEA
24085	1	24440	27784	BLANK		Plutonium Isotopics by AEA
24085	2	24440	27784	LCS		Plutonium Isotopics by AEA
24085	3	24440	27784	DUP	W040002092	Plutonium Isotopics by AEA
24085	4	24440	27784	SAMPLE	W040002092	Plutonium Isotopics by AEA
24085	5	24440	27784	SAMPLE	W040002093	Plutonium Isotopics by AEA
24085	6	24440	27784	SAMPLE	W040002094	Plutonium Isotopics by AEA
24085	7	24440	27784	SAMPLE	W040002095	Plutonium Isotopics by AEA
24086	1	24439	27785	BLANK		Americium by AEA
24086	2	24439	27785	LCS		Americium by AEA
24086	3	24439	27785	DUP	W040002092	Americium by AEA
24086	4	24439	27785	SAMPLE	W040002092	Americium by AEA
24086	5	24439	27785	SAMPLE	W040002093	Americium by AEA
24086	6	24439	27785	SAMPLE	W040002094	Americium by AEA
24086	7	24439	27785	SAMPLE	W040002095	Americium by AEA
24084	1	24441	27804	BLANK		Neptunium by AEA
24084	2	24441	27804	LCS		Neptunium by AEA
24084	5	24441	27804	SAMPLE	W040002095	Neptunium by AEA
24084	3	24441	27804	DUP	W040002150	Neptunium by AEA
24143	1	24499	27813	BLANK		ICP-2008 MS All possible metal
24143	2	24499	27813	LCS		ICP-2008 MS All possible metal
24143	4	24499	27813	MS	W040002092	ICP-2008 MS All possible metal
24143	5	24499	27813	MSD	W040002092	ICP-2008 MS All possible metal
24143	3	24499	27813	SAMPLE	W040002092	ICP-2008 MS All possible metal
24143	0	24499	27813	SPK-RPD	W040002092	ICP-2008 MS All possible metal
24143	6	24499	27813	SAMPLE	W040002093	ICP-2008 MS All possible metal
24143	7	24499	27813	SAMPLE	W040002094	ICP-2008 MS All possible metal
24143	8	24499	27813	SAMPLE	W040002095	ICP-2008 MS All possible metal
24139	1	24496	27826	BLANK		Neptunium by AEA

24139	2	24496	27826	LCS		Neptunium by AEA
24139	3	24496	27826	DUP	W040002092	Neptunium by AEA
24139	4	24496	27826	SAMPLE	W040002092	Neptunium by AEA
24139	5	24496	27826	SAMPLE	W040002093	Neptunium by AEA
24139	6	24496	27826	SAMPLE	W040002094	Neptunium by AEA
24177	2	24533	27843	BLANK		Ammonia (N) by IC
24177	16	24533	27843	BLANK		Ammonia (N) by IC
24177	3	24533	27843	LCS		Ammonia (N) by IC
24177	5	24533	27843	DUP	W040002092	Ammonia (N) by IC
24177	6	24533	27843	MS	W040002092	Ammonia (N) by IC
24177	7	24533	27843	MSD	W040002092	Ammonia (N) by IC
24177	4	24533	27843	SAMPLE	W040002092	Ammonia (N) by IC
24177	8	24533	27843	SAMPLE	W040002093	Ammonia (N) by IC
24177	9	24533	27843	SAMPLE	W040002094	Ammonia (N) by IC
24177	10	24533	27843	SAMPLE	W040002095	Ammonia (N) by IC
			27848	BLANK		VOA Ground Water Protection
			27848	MS	W040002070	VOA Ground Water Protection
			27848	MSD	W040002070	VOA Ground Water Protection
			27848	SPK-RPD	W040002070	VOA Ground Water Protection
			27848	SAMPLE	W040002092	VOA Ground Water Protection
			27848	SURR	W040002092	VOA Ground Water Protection
			27848	SAMPLE	W040002093	VOA Ground Water Protection
			27848	SURR	W040002093	VOA Ground Water Protection
			27848	SAMPLE	W040002094	VOA Ground Water Protection
			27848	SURR	W040002094	VOA Ground Water Protection
			27848	SAMPLE	W040002095	VOA Ground Water Protection
			27848	SURR	W040002095	VOA Ground Water Protection
24219	1	24576	27874	BLANK		NWTPH-GX TPH Gasoline Range
24219	2	24576	27874	LCS		NWTPH-GX TPH Gasoline Range
24219	3	24576	27874	SAMPLE	W040002092	NWTPH-GX TPH Gasoline Range
24219	7	24576	27874	SAMPLE	W040002093	NWTPH-GX TPH Gasoline Range
24219	4	24576	27874	DUP	W040002094	NWTPH-GX TPH Gasoline Range
24219	5	24576	27874	MS	W040002094	NWTPH-GX TPH Gasoline Range
24219	6	24576	27874	MSD	W040002094	NWTPH-GX TPH Gasoline Range
24219	8	24576	27874	SAMPLE	W040002094	NWTPH-GX TPH Gasoline Range
24219	6	24576	27874	SPK-RPD	W040002094	NWTPH-GX TPH Gasoline Range
24219	9	24576	27874	SAMPLE	W040002095	NWTPH-GX TPH Gasoline Range
24228	1	24585	27882	BLANK		Alcohols, Glycols - 8015
24228	2	24585	27882	LCS		Alcohols, Glycols - 8015
24228	5	24585	27882	MS	W040002092	Alcohols, Glycols - 8015
24228	6	24585	27882	MSD	W040002092	Alcohols, Glycols - 8015
24228	3	24585	27882	SAMPLE	W040002092	Alcohols, Glycols - 8015
24228	6	24585	27882	SPK-RPD	W040002092	Alcohols, Glycols - 8015
24228	7	24585	27882	SAMPLE	W040002093	Alcohols, Glycols - 8015
24228	4	24585	27882	DUP	W040002094	Alcohols, Glycols - 8015
24228	8	24585	27882	SAMPLE	W040002094	Alcohols, Glycols - 8015
24228	9	24585	27882	SAMPLE	W040002095	Alcohols, Glycols - 8015
24248	1	24605	27908	BLANK		ICP Metals Analysis, Grd H20 P
24248	2	24605	27908	LCS		ICP Metals Analysis, Grd H20 P
24248	4	24605	27908	MS	W040002092	ICP Metals Analysis, Grd H20 P
24248	5	24605	27908	MSD	W040002092	ICP Metals Analysis, Grd H20 P
24248	3	24605	27908	SAMPLE	W040002092	ICP Metals Analysis, Grd H20 P
24248	0	24605	27908	SPK-RPD	W040002092	ICP Metals Analysis, Grd H20 P
24248	6	24605	27908	SAMPLE	W040002093	ICP Metals Analysis, Grd H20 P
24248	7	24605	27908	SAMPLE	W040002094	ICP Metals Analysis, Grd H20 P

24248 8 24605 27908 SAMPLE W040002095 ICP Metals Analysis, Grd H20 P

M8141-SLF-04-371

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 9 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

12/01/04

ACKNOWLEDGMENT OF SAMPLES RECEIVED

File KB

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119143/ES10
Group#: 20042022
Project#: F03-025
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

The following samples were received from you on 11/01/04. 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
W040002092	B19187	GRP @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOC @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSO PH-30	Solid, or handle as if solid	10/27/04
W040002093	B19190	GRP @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOC @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSO PH-30	Solid, or handle as if solid	10/27/04
W040002094	B19191	GRP @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOC @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSO PH-30	Solid, or handle as if solid	10/28/04
W040002095	B19192	GRP @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOC @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSO PH-30	Solid, or handle as if solid	11/01/04

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@8015GPP	Alcohols, Glycols - 8015
@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
@GPP6010	ICP Metals Analysis, Grd H20 P
@IC-30	Anions by Ion Chromatography

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119143/ES10
Group#: 20042022
Project#: F03-025
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@PCBGPP	PCBs complete list
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@TPHG-WA	NWTPH-GX TPH Gasoline Range
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
NH4-IC	Ammonia (N) by IC
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-025-058	PAGE 1 OF 2

COLLECTOR Pope/Pfister/Wiberg/Tyra	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5689	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION 216-T-28; 27.5ft-30ft	**PROJECT DESIGNATION** 200-LW-1/LW-2 Characterization - Soil	**SAF NO.** F03-025	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119143ES10	**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
N/A

20042022

SPECIAL HANDLING AND/OR STORAGE
~~N/A~~ 10-27-04
Radioactive HC to: B191C8

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
TYPE OF CONTAINER	Gs*	aG	aG	Gs*	P	aG	aG			
NO. OF CONTAINER(S)	3	1	1	3	1	1	1			
VOLUME	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B19187	SOIL W04000209Z	10-27-04	1055	X	X	X	X	X	X	X		
B19190	SOIL W04000209Z	10-27-04	1055	X	X	X	X	X	X	X		

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. Pfister/ [signature]	10-27-04 1330	Site Fridge	10-27-04 1330
Site Fridge	11/1/04 1030	David Tyra/ [signature]	11/1/04 1030
David Tyra/ David Tyra	11/1/04 1235	[signature]	11/1/04 1235

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F03-025-058	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Wiberg/Tyra	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5689	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 2A	**DATA TURNAROUND**
SAMPLING LOCATION 216-T-28; 27.5ft-30ft	**PROJECT DESIGNATION** 200-LW-1/LW-2 Characterization - Soil		**SAF NO.** F03-025	**AIR QUALITY** ☐	**24 Hours** 48 hrs 11-1-04
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119143ES10	**METHOD OF SHIPMENT** Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis.

(1)VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}
(2)Semi-VOA - 8270A (TCL) {Phenol} Semi-VOA -- 8270A (Add-On) {Tributyl phosphate} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} TPH-Gasoline Range - WTPH-G;
(3)Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}
(4)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Cesium-134} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Americium-241;
(5)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium} ICP Metals - 6010A (Add-on) {Bismuth}
(6)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate} Cations (IC) - 300.7 {Nitrogen in ammonium} Cyanide (Total) - 335.2; pH (Soil) - 9045;

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-025-059	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Pope/Pfister/Wiberg/Tyra	TRENT, STEVE	373-5689	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
216-T-28; 32.5-35 ft	200-LW-1/LW-2 Characterization - Soil		F03-025		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
		119143ES10	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
N/A

SPECIAL HANDLING AND/OR STORAGE
N/A 10-28-04
Radiologic hc to B19104

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
TYPE OF CONTAINER	Gs*	aG	aG	Gs*	P	aG	aG			
NO. OF CONTAINER(S)	3	1	1	3	1	1	1			
VOLUME	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B19191	SOIL W04C00-2094	10-28-04	1405	X	X	X	X	X	X	X			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPOPE/	10-28-04 1500	Site fridge	10-28-04 1500
Site Fridge	11/1/04 1030	David Tyra/	1030
David Tyra/	11/1/04 1235		11/1/04 1235

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F03-025-059	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Wiberg/Tyra	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5689	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 2A	**DATA TURNAROUND**
SAMPLING LOCATION 216-T-28; 32.5-35 ft	**PROJECT DESIGNATION** 200-LW-1/LW-2 Characterization - Soil		**SAF NO.** F03-025	**AIR QUALITY** ☐	**24 Hours**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119143ES10	**METHOD OF SHIPMENT** Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis.

(1)VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}
(2)Semi-VOA - 8270A (TCL) {Phenol} Semi-VOA -- 8270A (Add-On) {Tributyl phosphate} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} TPH-Gasoline Range - WTPH-G;
(3)Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}
(4)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Cesium-134} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Americium-241;
(5)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium} ICP Metals - 6010A (Add-on) {Bismuth}
(6)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate} Cations (IC) - 300.7 {Nitrogen in ammonium} Cyanide (Total) - 335.2; pH (Soil) - 9045;

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-025-060	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Pope/Pfister/Wiberg/Tyra	TRENT, STEVE	373-5689	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
216-T-28; 47.5-50 ft	200-LW-1/LW-2 Characterization - Soil		F03-025		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
		119143ES10	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
N/A

SPECIAL HANDLING AND/OR STORAGE
~~N/A~~ [illegible]
Reconcile tic to B191D0

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
TYPE OF CONTAINER	Gs*	aG	aG	Gs*	P	aG	aG			
NO. OF CONTAINER(S)	3	1	1	3	1	1	1			
VOLUME	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B19192 W0400020075	SOIL	11-1-04	0905	X	X	X	X	X	X	X			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible] David Tyra	11/1/04 1235	[illegible]	11/1/04 1235
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

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F03-025-060	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Wiberg/Tyra	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5689	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 2A	**DATA TURNAROUND**
SAMPLING LOCATION 216-T-28; 47.5-50 ft	**PROJECT DESIGNATION** 200-LW-1/LW-2 Characterization - Soil		**SAF NO.** F03-025	**AIR QUALITY** ☐	~~24 Hours~~ 45 days 11-1-04
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119143E510	**METHOD OF SHIPMENT** Government Vehicle		
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis.

(1)VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}
(2)Semi-VOA - 8270A (TCL) {Phenol} Semi-VOA -- 8270A (Add-On) {Tributyl phosphate} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} TPH-Gasoline Range - WTPH-G;
(3)Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}
(4)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Cesium-134} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Americium-241;
(5)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium} ICP Metals - 6010A (Add-on) {Bismuth}
(6)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate} Cations (IC) - 300.7 {Nitrogen in ammonium} Cyanide (Total) - 335.2; pH (Soil) - 9045;

A-6003-618(03/03)