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Memorandum

To: S. J. Trent A0-21 Date: M8141-SLF-04-375
December 9, 2004

From: S. L. Fitzgerald, Manager *MAN FOR SLF*
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 216-Z-9 TRENCH CHARACTERIZATION BOREHOLE - SOIL -
SAMPLE DELIVERY GROUP WSCF20042029 - SAF NUMBER F03-018

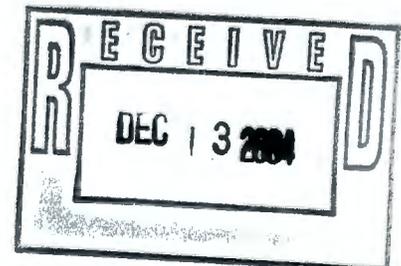
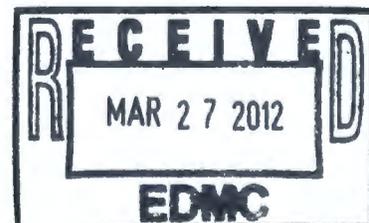
Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001,
October 31, 2002

(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 WSCF20042029, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

SLF/grf

Attachments 3



M8141-SLF-04-375

ATTACHMENT 1

NARRATIVE

Consisting of 7 pages
Including cover page

Sample Delivery Group	WSCF20042029
Sample Matrix	SOIL
Sample Visual	N/A
SAF Number	F03-018
Data Deliverable	Summary Report

Introduction

Two (2) 216-Z-9/C3426 – Interval 337’ - 339.5’ and 338’ – 340’, Trench Characterization Borehole - Soil GRP samples (B19LJ4 and B1B9N5) were received at the WSCF Laboratory on November 2, 2004. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 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 chain 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 6010B. 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

- Semi-VOA by EPA Method 8270B. 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.
- VOA by EPA Method 8260B. Analytical work was performed with no deviations to the approved method.

Radiochemistry

- All RadChem analyses (AEA (Plutonium, Americium, Uranium and Neptunium) GEA, and Gross Alpha/Beta) 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 the GRP Letter of Instruction. See page 13 for QC details. Analytical Note:

- Duplicate, Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19NJ8 (SDG# 20042117, SAF# F03-018).

All QC controls are within the established limits.

Anions - The hold times 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 pages 14 through 15 for QC details. Analytical Notes:

- Preparation Date: 10-nov-2004.
- Duplicate, Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19187 (SDG# 20042022, SAF# F03-025).
- Phosphate – The Matrix and Matrix Spike Duplicate recoveries were below established laboratory limits. Sample B19LJ4 result was below the detection limit and not flagged.
- Fluoride – The Duplicate Relative Percent Difference exceeded established laboratory limits. Sample B19LJ4 result was below the detection limit and not flagged. The Duplicate RPD criterion was based on Sample# B19187.

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 the GRP Letter of Instruction. See page 16 for QC details. All QC controls are within the established limits.

ICP-AES 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 GRP Letter of Instruction. See pages 17 through 21 for QC details. Analytical Notes:

- Preparation Date: 30-nov-2004.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19NJ8 (SDG# 20042117, SAF#F03-018).
- The analytes detected in the associated preparation Blank sample were evaluated and there was no significant affect on the sample results.
- Aluminum – The Laboratory Control Sample recovery exceeded the established laboratory limits. Sample B19LJ4 result was E (estimate) flagged.
- Aluminum, Iron, Magnesium, Potassium, Sodium and Calcium - insufficient spike concentration. Sample concentration was greater than four times the spike concentration.

All other QC controls are within the established limits.

ICP-MS Metals (Mercury and Uranium 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 the GRP Letter of Instruction. See page 22 for QC details. Analytical Notes:

- Preparation Date: 22-nov-2004.
- Mercury – The Laboratory Control Sample recovery exceeded established laboratory limits but was within manufacturer's limits. Sample B19LJ4 result was not flagged.

All other QC controls are within the established limits.

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

Percent Solids – analyzed for organic analysis correction only.

Organic Comments

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

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 28 through 33 for QC details. Analytical Notes:

- Preparation date: 2-nov-2004.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B19192 (SDG# 20042022, SAF# F03-025).
- Pentachlorophenol – The Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate recoveries were below established laboratory limits. B19LJ4 sample result was below the detection limit and not flagged.
- Diethylphthalate –Analyte was found in the associated Blank QC sample. Sample B19JL4 result was B-flagged.
- Diethylphthalate - Sample B19JL4 result was J flagged; result was less than the lowest calibration standard but greater than the detection limit.

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 34 for QC details. Analytical Note:

- Preparation date: 02-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 35 through 37 for QC details. Analytical Note:

- Chloroform – sample B1B9N5 result was J flagged; result was less than the lowest calibration standard but greater than the detection limit.

All other 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 40 through 45 for QC details. Analytical Notes:

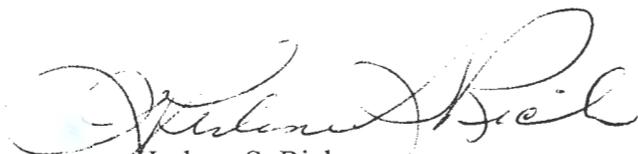
- Neptunium-237 - Duplicate QC samples were analyzed on sample# B19189 (SDG# 20042054, SAF# F03-025).

- Neptunium-237 – The Laboratory Control Sample recovery was below established laboratory limits. B19LJ4 result was below the detection limit and not flagged.
- Uranium-238 - The Duplicate Relative Percent Difference exceeded established laboratory limits. The sample was non-homogeneous and sample B19LJ4 Uranium results were not flagged.
- Gross Alpha/Beta – The Duplicate Relative Percent Difference exceeded established laboratory limits. The RPD criterion does not apply to low level samples with high counting error.

All other QC controls are within the established limits.

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
BLANK		Am-243	84.6
LCS		Am-243	89.4
B19LJ4	W040002103	Am-243	83.8
DUPLICATE	W040002103	Am-243	94.4
BLANK		Pu-242	81.0
LCS		Pu-242	77.9
B19LJ4	W040002103	Pu-242	82.9
DUPLICATE	W040002103	Pu-242	95.3
BLANK		U-232	86.7
LCS		U-232	82.7
B19LJ4	W040002103	U-232	79.9
DUPLICATE	W040002103	U-232	85.7

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-04-375

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 44 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

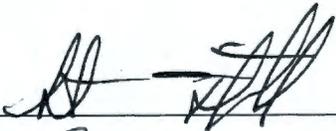
for

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#: WSCF20042029
Report Date: 6-dec-2004
Report WGPP/ver. 1.1
Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive	
Inorganic														
W040002103	B19LJ4	GRP	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	11/04/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401		2.92	mg/kg	50.00	0.20	11/17/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	TS	Total solids	SOIL	LA-519-412		85.4	%	1.00	0.0	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	PH	pH Measurement	SOIL	LA-212-411		8.78	pH	1.00	0.010	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	16887-00-6	Chloride	SOIL	LA-533-410		4.56	mg/kg	50.00	2.6	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410		7.17	mg/kg	50.00	0.65	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	PO4-P	Phosphate (P) by IC	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	14808-79-8	Sulfate	SOIL	LA-533-410	U	< 5.00	mg/kg	50.00	5.0	11/10/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7429-90-5	Aluminum	SOIL	LA-505-411	E	6.30e + 03	mg/kg	1.00	0.090	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7439-89-6	Iron	SOIL	LA-505-411		1.77e + 04	mg/kg	1.00	0.33	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7439-95-4	Magnesium	SOIL	LA-505-411		3.10e + 03	mg/kg	1.00	0.050	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7439-96-5	Manganese	SOIL	LA-505-411		238	mg/kg	1.00	0.010	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-02-0	Nickel	SOIL	LA-505-411		9.20	mg/kg	1.00	0.24	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-09-7	Potassium	SOIL	LA-505-411		602	mg/kg	1.00	4.8	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-22-4	Silver	SOIL	LA-505-411		2.74	mg/kg	1.00	0.018	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-23-5	Sodium	SOIL	LA-505-411		275	mg/kg	1.00	4.4	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-36-0	Antimony	SOIL	LA-505-411	U	< 1.10	mg/kg	1.00	1.1	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-39-3	Barium	SOIL	LA-505-411		51.1	mg/kg	1.00	0.70	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-43-9	Cadmium	SOIL	LA-505-411		2.08	mg/kg	1.00	0.17	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-47-3	Chromium	SOIL	LA-505-411		9.11	mg/kg	1.00	0.26	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-48-4	Cobalt	SOIL	LA-505-411		8.04	mg/kg	1.00	0.26	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-50-8	Copper	SOIL	LA-505-411		13.4	mg/kg	1.00	0.24	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-62-2	Vanadium	SOIL	LA-505-411		44.0	mg/kg	1.00	0.32	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7440-66-6	Zinc	SOIL	LA-505-411		34.7	mg/kg	1.00	0.96	11/30/04	11/02/04	11/02/04

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)

J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample Receive		
					Method	RQ							
W040002103	B19LJ4 GRP	7440-70-2	Calcium	SOIL	LA-505-411		4.48e+03	mg/kg	1.00	0.085	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7439-92-1	Lead	SOIL	LA-505-411	U	< 0.790	mg/kg	1.00	0.79	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7439-93-2	Lithium	SOIL	LA-505-411		4.31	mg/kg	1.00	0.10	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7440-24-6	Strontium	SOIL	LA-505-411		18.2	mg/kg	1.00	0.35	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7440-38-2	Arsenic	SOIL	LA-505-411		5.10	mg/kg	1.00	0.92	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7440-41-7	Beryllium	SOIL	LA-505-411		0.432	mg/kg	1.00	1.0e-03	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 0.110	mg/kg	1.00	0.11	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7723-14-0	Phosphorus	SOIL	LA-505-411		399	mg/kg	1.00	0.050	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7782-49-2	Selenium	SOIL	LA-505-411	U	< 0.800	mg/kg	1.00	0.80	11/30/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7439-97-6	Mercury	SOIL	LA-505-412		0.908	mg/kg	9.52	9.5e-03	11/23/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	7440-61-1	Uranium	SOIL	LA-505-412		0.393	mg/kg	9.52	0.15	11/23/04	11/02/04	11/02/04
W040002119	B1B9N5 GRP	TRENT TS	Total solids	SOIL	LA-519-412		81.2	%	1.00	0.0	12/06/04	11/02/04	11/02/04

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)
 J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors
 U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: Ammonia (N) by IC

SAF Number: F03-018
 Sample Date: 11/10/04
 Receive Date: 11/11/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002203
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Ammonia (N) by IC	7664-41-7	3.69e-01	1.879	RPD	11/17/04	0.000	20.000	
MS	Ammonia (N) by IC	7664-41-7	3.89e-01	94.417	% Recov	11/17/04	75.000	125.000	
MSD	Ammonia (N) by IC	7664-41-7	3.89e-01	94.417	% Recov	11/17/04	75.000	125.000	

BATCH QC

BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	11/17/04	0.000	30.000	U
BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	11/17/04	0.000	30.000	U
LCS	Ammonia (N) by IC	7664-41-7	8.19e+01	99.635	% Recov	11/17/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: Anions by Ion Chromatography

SAF Number: F03-018
 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
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Lab ID: W040002092
BATCH QC ASSOCIATED WITH SAMPLE

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: WSCF20042029
 Matrix: SOLID
 Test: Anions by Ion Chromatography

SAF Number: F03-018
 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: WSCF20042029
 Matrix: SOLID
 Test: Cyanide by Midi/Spectrophotom

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

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

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: WSCF20042029
 Matrix: SOLID
 Test: ICP Metals Analysis, Grd H2O P

SAF Number: F03-018
 Sample Date: 11/10/04
 Receive Date: 11/11/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002203
 BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	470.425	94.844	% Recov	11/30/04	75.000	125.000	
MS	Aluminum	7429-90-5	6745	n/a	% Recov	11/30/04	75.000	125.000	
MS	Arsenic	7440-38-2	495.5	99.899	% Recov	11/30/04	75.000	125.000	
MS	Barium	7440-39-3	524.2	105.685	% Recov	11/30/04	75.000	125.000	
MS	Beryllium	7440-41-7	502.645	101.340	% Recov	11/30/04	75.000	125.000	
MS	Bismuth	7440-69-9	478.4	96.452	% Recov	11/30/04	75.000	125.000	
MS	Calcium	7440-70-2	1866	n/a	% Recov	11/30/04	75.000	125.000	
MS	Cadmium	7440-43-9	508.168	102.453	% Recov	11/30/04	75.000	125.000	
MS	Cobalt	7440-48-4	488.372	98.462	% Recov	11/30/04	75.000	125.000	
MS	Chromium	7440-47-3	480.32	96.839	% Recov	11/30/04	75.000	125.000	
MS	Copper	7440-50-8	530.382	106.932	% Recov	11/30/04	75.000	125.000	
MS	Iron	7439-89-6	3030	n/a	% Recov	11/30/04	75.000	125.000	
MS	Potassium	7440-09-7	6325	n/a	% Recov	11/30/04	75.000	125.000	
MS	Lithium	7439-93-2	539.198	108.709	% Recov	11/30/04	70.000	130.000	
MS	Magnesium	7439-95-4	1137	n/a	% Recov	11/30/04	75.000	125.000	
MS	Manganese	7439-96-5	514.7	103.770	% Recov	11/30/04	75.000	125.000	
MS	Sodium	7440-23-5	1542	n/a	% Recov	11/30/04	75.000	125.000	
MS	Nickel	7440-02-0	499.8	100.766	% Recov	11/30/04	75.000	125.000	
MS	Phosphorus	7723-14-0	563.4	113.589	% Recov	11/30/04	70.000	130.000	
MS	Lead	7439-92-1	470.8	94.919	% Recov	11/30/04	75.000	125.000	
MS	Antimony	7440-36-0	456.3	91.996	% Recov	11/30/04	75.000	125.000	
MS	Selenium	7782-49-2	527.4	106.331	% Recov	11/30/04	75.000	125.000	
MS	Strontium	7440-24-6	526.9	106.230	% Recov	11/30/04	70.000	130.000	
MS	Vanadium	7440-62-2	520.09	104.857	% Recov	11/30/04	75.000	125.000	
MS	Zinc	7440-66-6	518.57	104.550	% Recov	11/30/04	75.000	125.000	
MSD	Silver	7440-22-4	461.225	92.615	% Recov	11/30/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-018
 Sample Date: 11/10/04
 Receive Date: 11/11/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Aluminum	7429-90-5	6715	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Arsenic	7440-38-2	508.8	102.169	% Recov	11/30/04	75.000	125.000	
MSD	Barium	7440-39-3	534.5	107.329	% Recov	11/30/04	75.000	125.000	
MSD	Beryllium	7440-41-7	512.445	102.901	% Recov	11/30/04	75.000	125.000	
MSD	Bismuth	7440-69-9	481.2	96.627	% Recov	11/30/04	75.000	125.000	
MSD	Calcium	7440-70-2	1665	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Cadmium	7440-43-9	514.568	103.327	% Recov	11/30/04	75.000	125.000	
MSD	Cobalt	7440-48-4	493.572	99.111	% Recov	11/30/04	75.000	125.000	
MSD	Chromium	7440-47-3	485.12	97.414	% Recov	11/30/04	75.000	125.000	
MSD	Copper	7440-50-8	526.082	105.639	% Recov	11/30/04	75.000	125.000	
MSD	Iron	7439-89-6	2260	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Potassium	7440-09-7	6511	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Lithium	7439-93-2	546.098	109.658	% Recov	11/30/04	75.000	125.000	
MSD	Magnesium	7439-95-4	1126	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Manganese	7439-96-5	521	104.618	% Recov	11/30/04	75.000	125.000	
MSD	Sodium	7440-23-5	1598	n/a	% Recov	11/30/04	75.000	125.000	
MSD	Nickel	7440-02-0	510	102.410	% Recov	11/30/04	75.000	125.000	
MSD	Phosphorus	7723-14-0	529.9	106.406	% Recov	11/30/04	75.000	125.000	
MSD	Lead	7439-92-1	484.6	97.309	% Recov	11/30/04	75.000	125.000	
MSD	Antimony	7440-36-0	454.6	91.285	% Recov	11/30/04	75.000	125.000	
MSD	Selenium	7782-49-2	535.7	107.570	% Recov	11/30/04	75.000	125.000	
MSD	Strontium	7440-24-6	529.6	106.345	% Recov	11/30/04	75.000	125.000	
MSD	Vanadium	7440-62-2	512.99	103.010	% Recov	11/30/04	75.000	125.000	
MSD	Zinc	7440-66-6	525.67	105.556	% Recov	11/30/04	75.000	125.000	
SPK-RPD	Silver	7440-22-4	92.615	2.378	RPD	11/30/04	0.000	20.000	
SPK-RPD	Aluminum	7429-90-5		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Arsenic	7440-38-2	102.169	2.247	RPD	11/30/04	0.000	20.000	
SPK-RPD	Barium	7440-39-3	107.329	1.544	RPD	11/30/04	0.000	20.000	
SPK-RPD	Beryllium	7440-41-7	102.901	1.529	RPD	11/30/04	0.000	20.000	
SPK-RPD	Bismuth	7440-69-9	96.627	0.181	RPD	11/30/04	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-018
 Sample Date: 11/10/04
 Receive Date: 11/11/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SPK-RPD	Calcium	7440-70-2		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	103.327	0.849	RPD	11/30/04	0.000	20.000	
SPK-RPD	Cobalt	7440-48-4	99.111	0.657	RPD	11/30/04	0.000	20.000	
SPK-RPD	Chromium	7440-47-3	97.414	0.592	RPD	11/30/04	0.000	20.000	
SPK-RPD	Copper	7440-50-8	105.639	1.217	RPD	11/30/04	0.000	20.000	
SPK-RPD	Iron	7439-89-6		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Potassium	7440-09-7		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Lithium	7439-93-2	109.658	0.869	RPD	11/30/04	0.000	20.000	
SPK-RPD	Magnesium	7439-95-4		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Manganese	7439-96-5	104.618	0.814	RPD	11/30/04	0.000	20.000	
SPK-RPD	Sodium	7440-23-5		n/a	RPD	11/30/04	0.000	20.000	
SPK-RPD	Nickel	7440-02-0	102.410	1.618	RPD	11/30/04	0.000	20.000	
SPK-RPD	Phosphorus	7723-14-0	106.406	6.530	RPD	11/30/04	0.000	20.000	
SPK-RPD	Lead	7439-92-1	97.309	2.487	RPD	11/30/04	0.000	20.000	
SPK-RPD	Antimony	7440-36-0	91.285	0.776	RPD	11/30/04	0.000	20.000	
SPK-RPD	Selenium	7782-49-2	107.570	1.158	RPD	11/30/04	0.000	20.000	
SPK-RPD	Strontium	7440-24-6	106.345	0.108	RPD	11/30/04	0.000	20.000	
SPK-RPD	Vanadium	7440-62-2	103.010	1.777	RPD	11/30/04	0.000	20.000	
SPK-RPD	Zinc	7440-66-6	105.556	0.958	RPD	11/30/04	0.000	20.000	

BATCH QC

BLANK	Silver	7440-22-4	< 1.8e-2	n/a	ug/L	11/30/04	-1.000	0.032	U
BLANK	Aluminum	7429-90-5	17.9	17.900	ug/L	11/30/04	-1.000	63.000	
BLANK	Arsenic	7440-38-2	55.6	55.600	ug/L	11/30/04	-1.000	0.067	
BLANK	Barium	7440-39-3	<0.7	n/a	ug/L	11/30/04	-1.000	0.014	U
BLANK	Beryllium	7440-41-7	< 1e-3	n/a	ug/L	11/30/04	-1.000	0.009	U
BLANK	Bismuth	7440-69-9	<5	n/a	ug/L	11/30/04	-1.000	0.068	U
BLANK	Calcium	7440-70-2	< 6.5e-2	n/a	ug/L	11/30/04	-38.000	38.000	U
BLANK	Cadmium	7440-43-9	1	1.000	ug/L	11/30/04	-1.000	0.009	
BLANK	Cobalt	7440-48-4	<0.26	n/a	ug/L	11/30/04	-4.000	4.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-018
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Chromium	7440-47-3	1.4	1.400	ug/L	11/30/04	-1.000	0.035	•
BLANK	Copper	7440-50-8	0.9	0.900	ug/L	11/30/04	-1.000	0.035	•
BLANK	Iron	7439-89-6	15.1	15.100	ug/L	11/30/04	-19.000	19.000	
BLANK	Potassium	7440-09-7	<4.8	n/a	ug/L	11/30/04	-710.000	710.000	U
BLANK	Lithium	7439-93-2	0.2	0.200	ug/L	11/30/04	-38.000	38.000	
BLANK	Magnesium	7439-95-4	24.5	24.500	ug/L	11/30/04	-85.000	85.000	
BLANK	Manganese	7439-96-5	<1e-2	n/a	ug/L	11/30/04	-1.000	0.009	U
BLANK	Sodium	7440-23-5	<4.4	n/a	ug/L	11/30/04	-73.000	73.000	U
BLANK	Nickel	7440-02-0	0.3	0.300	ug/L	11/30/04	-1.000	0.012	•
BLANK	Phosphorus	7723-14-0	<5e-2	n/a	ug/L	11/30/04	0.000	1000.000	U
BLANK	Lead	7439-92-1	8.7	8.700	ug/L	11/30/04	-1.000	0.068	•
BLANK	Antimony	7440-36-0	36.7	36.700	ug/L	11/30/04	-1.000	0.074	•
BLANK	Selenium	7782-49-2	20.1	20.100	ug/L	11/30/04	-1.000	0.075	•
BLANK	Strontium	7440-24-6	<0.35	n/a	ug/L	11/30/04	-38.000	38.000	U
BLANK	Vanadium	7440-62-2	<0.32	n/a	ug/L	11/30/04	-1.000	0.030	U
BLANK	Zinc	7440-66-6	<0.96	n/a	ug/L	11/30/04	-1.000	0.018	U
LCS	Silver	7440-22-4	362	106.158	% Recov	11/30/04	45.000	155.000	
LCS	Aluminum	7429-90-5	11700	171.053	% Recov	11/30/04	44.000	157.000	•
LCS	Arsenic	7440-38-2	402	101.259	% Recov	11/30/04	79.000	121.000	
LCS	Barium	7440-39-3	591	99.831	% Recov	11/30/04	80.000	120.000	
LCS	Beryllium	7440-41-7	300	108.696	% Recov	11/30/04	81.000	119.000	
LCS	Bismuth	7440-69-9	198	99.000	% Recov	11/30/04	80.000	120.000	
LCS	Calcium	7440-70-2	3820	106.704	% Recov	11/30/04	76.000	124.000	
LCS	Cadmium	7440-43-9	283	105.204	% Recov	11/30/04	80.000	120.000	
LCS	Cobalt	7440-48-4	286	101.418	% Recov	11/30/04	85.000	115.000	
LCS	Chromium	7440-47-3	277	98.227	% Recov	11/30/04	77.000	122.000	
LCS	Copper	7440-50-8	355	108.563	% Recov	11/30/04	80.000	120.000	
LCS	Iron	7439-89-6	15300	123.387	% Recov	11/30/04	47.000	152.000	
LCS	Potassium	7440-09-7	4760	121.739	% Recov	11/30/04	64.000	136.000	
LCS	Lithium	7439-93-2	273	90.397	% Recov	11/30/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
Matrix: SOLID
Test: ICP Metals Analysis, Grd H2O P

SAF Number: F03-018
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Magnesium	7439-95-4	2770	123.111	% Recov	11/30/04	71.000	129.000	
LCS	Manganese	7439-96-5	679	104.141	% Recov	11/30/04	76.000	124.000	
LCS	Sodium	7440-23-5	616	111.594	% Recov	11/30/04	51.000	149.000	
LCS	Nickel	7440-02-0	296	103.497	% Recov	11/30/04	74.000	121.000	
LCS	Phosphorus	7723-14-0	637	97.401	% Recov	11/30/04	78.000	123.000	
LCS	Lead	7439-92-1	279	94.576	% Recov	11/30/04	77.000	123.000	
LCS	Antimony	7440-36-0	335	120.072	% Recov	11/30/04	53.000	205.000	
LCS	Selenium	7782-49-2	342	107.886	% Recov	11/30/04	74.000	126.000	
LCS	Strontium	7440-24-6	313	111.388	% Recov	11/30/04	74.000	126.000	
LCS	Vanadium	7440-62-2	367	102.514	% Recov	11/30/04	70.000	129.000	
LCS	Zinc	7440-66-6	515	108.421	% Recov	11/30/04	77.000	123.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: ICP-2008 MS All possible metal

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

MS	Mercury	7439-97-6	20.5621	102.811	% Recov	11/23/04	70.000	130.000	
MS	Uranium	7440-61-1	382.2074	95.552	% Recov	11/23/04	70.000	130.000	
MSD	Mercury	7439-97-6	19.9421	99.710	% Recov	11/23/04	70.000	130.000	
MSD	Uranium	7440-61-1	360.8074	90.202	% Recov	11/23/04	70.000	130.000	
SPK-RPD	Mercury	7439-97-6	99.710	3.062	RPD	11/23/04	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	90.202	5.760	RPD	11/23/04	0.000	20.000	

BATCH QC

BLANK	Mercury	7439-97-6	0.1202	0.120	ug/g	11/23/04	-0.220	0.220	
BLANK	Uranium	7440-61-1	<1.6e-2	n/a	ug/g	11/23/04	-0.220	0.220	U
LCS	Mercury	7439-97-6	10.85	115.303	% Recov	11/23/04	75.000	114.000	
LCS	Uranium	7440-61-1	387	96.750	% Recov	11/23/04	89.000	107.000	

WSCF

ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Organic													
W040002103	B19LJ4 GRP	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 750	ug/kg	1.00	7.5e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	108-95-2	Phenol	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	129-00-0	Pyrene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 350	ug/kg	1.00	3.5e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 170	ug/kg	1.00	1.7e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 290	ug/kg	1.00	2.9e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 110	ug/kg	1.00	1.1e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 290	ug/kg	1.00	2.9e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 650	ug/kg	1.00	6.5e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	120-12-7	Anthracene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4 GRP	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04

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Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze	Sample	Receive	
					Method	RQ								
W040002103	B19LJ4	GRP	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	218-01-9	Chrysene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 780	ug/kg	1.00	7.8e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	53-70-3	Dibenz[a,h]anthracene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 780	ug/kg	1.00	7.8e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	78-59-1	Isophorone	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	84-66-2	Diethylphthalate	SOIL	LA-523-456	BJ	730	ug/kg	1.00	2.2e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456		1.70e+03	ug/kg	1.00	1.0e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	86-73-7	Fluorene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	86-74-8	Carbazole	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 430	ug/kg	1.00	4.3e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 200	ug/kg	1.00	2.0e+02	11/09/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	11/09/04	11/02/04	11/02/04

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Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample Receive				
					Method	RQ									
W040002103	B19LJ4	GRP	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 210	ug/kg	1.00	2.1e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 420	ug/kg	1.00	4.2e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	86	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 540	ug/kg	1.00	5.4e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	108-94-1	Cyclohexanone	SOIL	LA-523-456	U	< 390	ug/kg	1.00	3.9e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	95-63-6	1,2,4-Trimethylbenzene	SOIL	LA-523-456	U	< 140	ug/kg	1.00	1.4e+02	11/09/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 4.40e+03	ug/kg	1.00	4.4e+03	11/11/04	11/02/04	11/02/04	
W040002103	B19LJ4	GRP	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 4.40e+03	ug/kg	1.00	4.4e+03	11/11/04	11/02/04	11/02/04	
W040002119	B1B9N5	GRP	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04

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Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze	Sample	Receive			
					Method	RQ										
W040002119	B1B9N5	GRP	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	J		1.90	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455			6.60	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455			11.0	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	<	31.0	ug/kg	1.00	31	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	110-54-3	Hexane	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	104-51-8	n-Butylbenzene	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	156-60-5	trans-1,2-Dichloroethylene	SOIL	LA-523-455	U	<	1.50	ug/kg	1.00	1.5	11/16/04	11/02/04	11/02/04
W040002119	B1B9N5	GRP	TRENT	75-05-8	Acetonitrile	SOIL	LA-523-455	U	<	3.10	ug/kg	1.00	3.1	11/16/04	11/02/04	11/02/04

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)

J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W040002119	B1B9N5	156-59-2	cis-1,2-Dichloroethylene	SOIL	LA-523-455	U	< 1.50	ug/kg	1.00	1.5	11/18/04	11/02/04	11/02/04

MDL = Minimum Detection Limit
RQ = Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)
 J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors
 U - Analyzed for but not detected above limiting criteria.

DF = Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
 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
Lab ID: W040002095									
BATCH QC ASSOCIATED WITH SAMPLE									
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	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
 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	Phenol	108-95-2	4918.5	95.300	% Recov	11/09/04	42.000	111.000	
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	

Lab ID: W040002103
 BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	3439.2	88.500	% Recov	11/09/04	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3660.6	94.200	% Recov	11/09/04	56.000	122.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Nitrobenzene-d5	4165-60-0	3730.8	96.000	% Recov	11/09/04	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3689.1	94.900	% Recov	11/09/04	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3363.3	86.500	% Recov	11/09/04	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3555.8	91.500	% Recov	11/09/04	35.000	150.000	

BATCH QC

BLANK	1,2-Dichlorobenzene	95-50-1	< 360	n/a	ug/Kg	11/09/04			U
BLANK	1,2,4-Trimethylbenzene	95-63-6	< 120	n/a	ug/Kg	11/09/04			U
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 290	n/a	ug/Kg	11/09/04			U
BLANK	1,3-Dichlorobenzene	541-73-1	< 320	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-Dichlorophenol	120-83-2	< 80	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	2,4,5-Trichlorophenol	95-95-4	< 73	n/a	ug/Kg	11/09/04			U
BLANK	2,4,6-Trichlorophenol	88-06-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2,4-Dimethylphenol	105-67-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2,6-Dinitrotoluene	606-20-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Chloronaphthalene	91-58-7	< 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	2-Methylnaphthalene	91-57-6	< 180	n/a	ug/Kg	11/09/04			U
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Nitroaniline	88-74-4	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2-Nitrophenol	88-75-5	< 170	n/a	ug/Kg	11/09/04			U
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 110	n/a	ug/Kg	11/09/04			U
BLANK	3-Nitroaniline	99-09-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 670	n/a	ug/Kg	11/09/04			U
BLANK	4-Bromophenylphenyl ether	101-55-3	< 67	n/a	ug/Kg	11/09/04			U
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Acenaphthene	83-32-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Acenaphthylene	208-96-8	< 80	n/a	ug/Kg	11/09/04			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Anthracene	120-12-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 250	n/a	ug/Kg	11/09/04			U
BLANK	Benzo(a)anthracene	56-55-3	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Benzo(b)fluoranthene	205-99-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Benzo(ghi)perylene	191-24-2	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Benzo(a)pyrene	50-32-8	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 110	n/a	ug/Kg	11/09/04			U
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 560	n/a	ug/Kg	11/09/04			U
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 250	n/a	ug/Kg	11/09/04			U
BLANK	Benzo(k)fluoranthene	207-08-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Butylbenzylphthalate	85-68-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Carbazole	86-74-8	< 80	n/a	ug/Kg	11/09/04			U
BLANK	4-Chloroaniline	106-47-8	< 93	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	Chrysene	218-01-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Cyclohexanone	108-94-1	< 330	n/a	ug/Kg	11/09/04			U
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 80	n/a	ug/Kg	11/09/04			U
BLANK	Dibenz[a,h]anthracene	53-70-3	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Dibenzofuran	132-64-9	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Di-n-butylphthalate	84-74-2	< 87	n/a	ug/Kg	11/09/04			U
BLANK	Diethylphthalate	84-66-2	520	520.000	ug/Kg	11/09/04			U
BLANK	Dimethyl phthalate	131-11-3	< 67	n/a	ug/Kg	11/09/04			U
BLANK	2,4-Dinitrophenol	51-28-5	< 670	n/a	ug/Kg	11/09/04			U
BLANK	Di-n-octylphthalate	117-84-0	< 67	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	U
BLANK	Fluorene	86-73-7	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Fluoranthene	206-44-0	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Hexachlorobenzene	118-74-1	< 67	n/a	ug/Kg	11/09/04			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Hexachlorobutadiene	87-68-3	< 370	n/a	ug/Kg	11/09/04			U
BLANK	Hexachlorocyclopentadiene	77-47-4	< 310	n/a	ug/Kg	11/09/04			U
BLANK	Hexachloroethane	67-72-1	< 470	n/a	ug/Kg	11/09/04			U
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Isophorone	78-59-1	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Phenol	108-95-2	< 100	n/a	ug/Kg	11/09/04			U
BLANK	Naphthalene	91-20-3	< 290	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	Nitrobenzene	98-95-3	< 260	n/a	ug/Kg	11/09/04			U
BLANK	4-Nitrophenol	100-02-7	< 650	n/a	ug/Kg	11/09/04			U
BLANK	4-Nitroaniline	100-01-6	< 250	n/a	ug/Kg	11/09/04			U
BLANK	N-Nitrosodiphenylamine	86-30-6	< 67	n/a	ug/Kg	11/09/04			U
BLANK	Pentachlorophenol	87-86-5	< 300	n/a	ug/Kg	11/09/04			U
BLANK	Phenanthrene	85-01-8	< 67	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	621-84-7	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	
LCS	Nitrobenzene-d5	4165-60-0	2887.5	86.600	% Recov	11/09/04	60.000	118.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-018
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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: WSCF20042029
 Matrix: SOLID
 Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-018
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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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: WSCF20042029
 Matrix: SOLID
 Test: VOA Ground Water Protection

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002119
 BATCH QC ASSOCIATED WITH SAMPLE

MS	1,1-Dichloroethene	75-35-4	53.440	107.000	% Recov	11/16/04	63.000	117.000	
MS	Benzene	71-43-2	54.450	109.000	% Recov	11/16/04	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	100.50	100.000	% Recov	11/16/04	84.000	116.000	
MS	Chlorobenzene	108-90-7	55.400	111.000	% Recov	11/16/04	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	120.60	121.000	% Recov	11/16/04	82.000	136.000	
MS	Toluene-d8	2037-26-5	105.80	106.000	% Recov	11/16/04	89.000	119.000	
MS	Toluene	108-88-3	55.820	112.000	% Recov	11/16/04	76.000	120.000	
MS	Trichloroethene	79-01-6	52.970	106.000	% Recov	11/16/04	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	44.100	106.000	% Recov	11/16/04	63.000	117.000	
MSD	Benzene	71-43-2	47.050	113.000	% Recov	11/16/04	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	82.540	99.000	% Recov	11/16/04	84.000	116.000	
MSD	Chlorobenzene	108-90-7	48.000	115.000	% Recov	11/16/04	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	99.020	119.000	% Recov	11/16/04	82.000	136.000	
MSD	Toluene-d8	2037-26-5	89.590	108.000	% Recov	11/16/04	89.000	119.000	
MSD	Toluene	108-88-3	46.760	112.000	% Recov	11/16/04	76.000	120.000	
MSD	Trichloroethene	79-01-6	45.270	109.000	% Recov	11/16/04	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	106.000	0.939	RPD	11/16/04	0.000	25.000	
SPK-RPD	Benzene	71-43-2	113.000	3.604	RPD	11/16/04	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	99.000	1.005	RPD	11/16/04	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	115.000	3.540	RPD	11/16/04	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	119.000	1.667	RPD	11/16/04	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	108.000	1.869	RPD	11/16/04	0.000	25.000	
SPK-RPD	Toluene	108-88-3	112.000	0.000	RPD	11/16/04	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	109.000	2.791	RPD	11/16/04	0.000	25.000	
SURR	4-Bromofluorobenzene	460-00-4	61.160	97.900	% Recov	11/16/04	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	69.110	111.000	% Recov	11/16/04	80.000	134.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: VOA Ground Water Protection

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Toluene-d8	2037-26-5	66.190	106.000	% Recov	11/16/04	80.000	126.000	
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	11/16/04			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	4-Bromofluorobenzene	460-00-4	49.940	99.900	% Recov	11/16/04	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	n-Butylbenzene	104-51-8	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	57.560	115.000	% Recov	11/16/04	80.000	134.000	
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	11/16/04			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: VOA Ground Water Protection

SAF Number: F03-018
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Hexane	110-54-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Toluene-d8	2037-26-5	52.550	105.000	% Recov	11/16/04	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	11/16/04			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	11/16/04			U
LCS	1,1-Dichloroethene	75-35-4	26.080	104.000	% Recov	11/16/04	70.000	130.000	
LCS	Benzene	71-43-2	27.370	109.000	% Recov	11/16/04	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	50.580	101.000	% Recov	11/16/04	71.000	125.000	
LCS	Chlorobenzene	108-90-7	28.830	115.000	% Recov	11/16/04	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	59.420	119.000	% Recov	11/16/04	80.000	134.000	
LCS	Toluene-d8	2037-26-5	53.630	107.000	% Recov	11/16/04	80.000	126.000	
LCS	Toluene	108-88-3	27.990	112.000	% Recov	11/16/04	70.000	130.000	
LCS	Trichloroethene	79-01-6	26.870	107.000	% Recov	11/16/04	70.000	130.000	

WSCF

ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry													
W040002103	B19LJ4	GRP	14596-10-2	Americium-241	SOIL	LA-508-471	0.0540	pCi/g	1.00	0.011	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471	+ 0.022	pCi/g	1.00	0.0	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	14234-35-6	Antimony-125	SOIL	LA-508-481	U -6.75e-03	pCi/g	1.00	0.025	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 0.015	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	10198-40-0	Cobalt-60	SOIL	LA-508-481	U -1.82e-03	pCi/g	1.00	9.2e-03	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 5.4e-03	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	13967-70-9	Cesium-134	SOIL	LA-508-481	U 0.0162	pCi/g	1.00	0.020	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 8.4e-03	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	10045-97-3	Cesium-137	SOIL	LA-508-481	U -1.11e-03	pCi/g	1.00	9.2e-03	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 6.1e-03	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	14683-23-9	Eurpium-152	SOIL	LA-508-481	U 5.21e-03	pCi/g	1.00	0.028	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 0.019	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	15585-10-1	Eurpium-154	SOIL	LA-508-481	U -9.04e-04	pCi/g	1.00	0.028	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 9.0e-03	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	14391-16-3	Eurpium-155	SOIL	LA-508-481	U -3.25e-03	pCi/g	1.00	0.040	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481	+ 0.024	pCi/g	1.00	0.0	11/08/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	12587-46-1	Gross alpha	SOIL	LA-508-415	2.10	pCi/g	1.00	0.64	11/17/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Gross Alpha Method Error	SOIL	LA-508-415	+ 0.74	pCi/g	1.00	0.0	11/17/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	12587-47-2	Gross beta	SOIL	LA-508-415	0.770	pCi/g	1.00	0.55	11/17/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Gross Beta Method Error	SOIL	LA-508-415	+ 0.38	pCi/g	1.00	0.0	11/17/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	13994-20-2	Neptunium-237	SOIL	LA-508-471	U 4.50e-03	pCi/g	1.00	0.016	11/23/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Np-237 by AEA Total Cntg Error	SOIL	LA-508-471	+ 9.0e-03	pCi/g	1.00	0.0	11/23/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	13981-16-3	Plutonium-238	SOIL	LA-508-471	U 3.90e-03	pCi/g	1.00	0.032	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471	+ 0.018	pCi/g	1.00	0.0	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471	0.0420	pCi/g	1.00	0.018	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471	+ 0.022	pCi/g	1.00	0.0	12/01/04	11/02/04	11/02/04

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)

J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
F03-018: F03-018

Group #: WSCF20042029

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze	Sample	Receive	
					Method	RQ								
W040002103	B19LJ4	GRP	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.150	pCi/g	1.00	0.017	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+ - 0.051	pCi/g	1.00	0.0	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	15117-96-1	Uranium-235	SOIL	LA-508-471	U	7.90e-03	pCi/g	1.00	0.015	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+ - 9.5e-03	pCi/g	1.00	0.0	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	U-238	Uranium-238	SOIL	LA-508-471		0.140	pCi/g	1.00	0.013	12/01/04	11/02/04	11/02/04
W040002103	B19LJ4	GRP	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+ - 0.048	pCi/g	1.00	0.10	12/01/04	11/02/04	11/02/04

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The Analyte detected in both the BLANK and the SAMPLE (org.)

J - Analyte is an estimate, has potentially larger errors

E - Analyte is an estimate, has potentially larger errors

U - Analyzed for but not detected above limiting criteria.

DF=Dilution Factor

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

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
Matrix: SOLID
Test: Americium by AEA

SAF Number: F03-018
Sample Date: 11/02/04
Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Americium-241	14596-10-2	4.9e-02	9.709	RPD	12/01/04	0.000	20.000	
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BATCH QC

BLANK	Americium-241	14596-10-2	8.1e-02	0.081	pCi/g	12/01/04	-10.000	1000.000	
LCS	Americium-241	14596-10-2	1.2e+01	107.865	% Recov	12/01/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
 Matrix: SOLID
 Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

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

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: WSCF20042029
 Matrix: SOLID
 Test: Gross Alpha/Gross Beta (AB32)

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Gross alpha	12587-46-1	1.5	33.333	RPD	11/17/04	0.000	20.000	•
DUP	Gross beta	12587-47-2	1.0	25.989	RPD	11/17/04	0.000	20.000	•

BATCH QC

BLANK	Gross alpha	12587-46-1	7.5e-03	0.007	pCi/g	11/17/04	-10.000	10.000	
BLANK	Gross beta	12587-47-2	4.1e-01	0.410	pCi/g	11/17/04	-10.000	10.000	
LCS	Gross alpha	12587-46-1	7.6	104.539	%rec	11/17/04	75.000	125.000	
LCS	Gross beta	12587-47-2	20.6	100.980	%rec	11/17/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
Matrix: SOLID
Test: Neptunium by AEA

SAF Number: F03-018
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: WSCF20042029
 Matrix: SOLID
 Test: Plutonium Isotopics by AEA

SAF Number: F03-018
 Sample Date: 11/02/04
 Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W040002103 BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Pu-239/240 by AEA	PU-239/240	U1.7E-02	n/a	RPD	12/01/04	0.000	20.000	
BATCH QC									
BLANK	Pu-239/240 by AEA	PU-239/240	U6.3e-03	n/a	pCi/g	12/01/04	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	11.73	97.750	% Recov	12/01/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20042029
Matrix: SOLID
Test: Uranium Isotopics by AEA

SAF Number: F03-018
Sample Date: 11/02/04
Receive Date: 11/02/04

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
---------	---------	-------	----------	----------	-------	---------------	-------------	-------------	----

Lab ID: W040002103
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Uranium-238	U-238	1.8e-01	25.000	RPD	12/01/04	0.000	20.000	•
-----	-------------	-------	---------	--------	-----	----------	-------	--------	---

BATCH QC

BLANK	Uranium-238	24678-82-8	U5.6e-03	n/a	pCi/g	12/01/04	-10.000	1000.000	
LCS	Uranium-238	24678-82-8	2.2e+01	116.064	% Recov	12/01/04	75.000	125.000	

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-018

Group #: WSCF20042029

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>Organics: Sample concentrations are corrected for moisture and reported dry weight basis. gar</p> <p>SVOA: Pentachlorophenol is out low in the LCS, MS, and MSD. A J-flag is used for target compounds where the concentration is less than the lowest calibration standard but greater than the detection limit. den</p> <p>VOA: A J-flag is used for target compounds where the concentration is less than the lowest calibration standard but greater than the detection limit. gar</p> <p>W040002103/Gross alpha/beta duplicate is flagged but the sample activity is low level. RPD does not apply to low level samples with high counting error.lmh</p> <p>ICP-MS: Mercury LCS recovery is within manufacturers specifications; no flag.</p> <p>ICP-AES: LCS value for Aluminumn bias high, "E" flag assigned.</p> <p>Spiking level was insufficient for Aluminum,Iron,Magnesium, Potassium,Sodium and Calcium, N/A for MS/MSD.</p> <p>Blank above MDL for; Cadmium,Arsenic,Antimony,Magnesium and Selenium. All results greater then the MDL but less then 20 times the blank value will receive "C" flag.</p>

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 F03-018

Group #: WSCF20042029

Sample #	Client ID	Lab Area	Test	Comment
----------	-----------	----------	------	---------

UIISO duplicate is flagged because the sample is not homogeneous.lmh

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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Report Date: 6-dec-2004

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WSCF

TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number

Steve Trent
F03-018 :F03-018

Group #: WSCF20042029

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	PB-214	Count Error		11	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	BI-214	Count Error		13	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	RA-226	Count Error		13	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	TL-208	Count Error		14	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	AC-228	Count Error		15	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	RA-228	Count Error		15	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	SN-126	Count Error		28	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	BI-212	Count Error		30	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	TH-234	Count Error		33	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	U-235	Count Error		33	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	K-40	Count Error		9.1	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	PB-212	Count Error		9.5	%
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	SN-126			0.11	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	TL-208			0.13	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	PB-212			0.42	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	AC-228			0.43	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	RA-228			0.43	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	TH-234			0.55	pCi/g
W040002103	B19LJ4	GRP	Gamma Energy Analysis-grd H2O	K-40			11	pCi/g

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPE v 1.1 Report#: 20042029

Report Date: 6-dec-2004

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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-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS None	No reference to any industry method.
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 Standard Methods 2540B	RESIDUE, TOTAL Total Solids Dried at 103-105 C

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

Report Date: 6-dec-2004

Report#: WSCF20042029

Report WGPPM/O

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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-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

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.

Report Date: 6-dec-2004

Report #: WSCF20042029

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W13q Worklist/Batch/QC Report for Group# WSCF20042029

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W040002103	Percent Solids
				SAMPLE	W040002119	Percent Solids
				SAMPLE	W040002103	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	MS	W040002103	Cyanide by Midi/Spectrophotom
			27580	MSD	W040002103	Cyanide by Midi/Spectrophotom
			27580	SAMPLE	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	11	24360	27644	SAMPLE	W040002103	Anions by Ion Chromatography
			27667	BLANK		SW-846 8270B Semi-Vols
			27667	LCS		SW-846 8270B Semi-Vols
			27667	MS	W040002095	SW-846 8270B Semi-Vols
			27667	MSD	W040002095	SW-846 8270B Semi-Vols
			27667	SPK-RPD	W040002095	SW-846 8270B Semi-Vols
			27667	SAMPLE	W040002103	SW-846 8270B Semi-Vols
			27667	SURR	W040002103	SW-846 8270B Semi-Vols
			27668	BLANK		WTPH-D TPH Diesel Range (Wa)
			27668	LCS		WTPH-D TPH Diesel Range (Wa)
			27668	SAMPLE	W040002103	WTPH-D TPH Diesel Range (Wa)
24027	1	24384	27716	BLANK		Gross Alpha/Gross Beta (AB32)
24027	2	24384	27716	LCS		Gross Alpha/Gross Beta (AB32)
24027	3	24384	27716	DUP	W040002103	Gross Alpha/Gross Beta (AB32)
24027	4	24384	27716	SAMPLE	W040002103	Gross Alpha/Gross Beta (AB32)
23955	1	24313	27738	BLANK		Gamma Energy Analysis-grd H2O
23955	2	24313	27738	LCS		Gamma Energy Analysis-grd H2O
23955	3	24313	27738	DUP	W040002103	Gamma Energy Analysis-grd H2O
23955	8	24313	27738	SAMPLE	W040002103	Gamma Energy Analysis-grd H2O
24097	2	24453	27759	BLANK		Ammonia (N) by IC
24097	11	24453	27759	BLANK		Ammonia (N) by IC
24097	3	24453	27759	LCS		Ammonia (N) by IC
24097	9	24453	27759	SAMPLE	W040002103	Ammonia (N) by IC
24097	5	24453	27759	DUP	W040002203	Ammonia (N) by IC
24097	6	24453	27759	MS	W040002203	Ammonia (N) by IC
24097	7	24453	27759	MSD	W040002203	Ammonia (N) by IC
24084	1	24441	27804	BLANK		Neptunium by AEA
24084	2	24441	27804	LCS		Neptunium by AEA
24084	6	24441	27804	SAMPLE	W040002103	Neptunium by AEA
24084	3	24441	27804	DUP	W040002150	Neptunium by AEA

24144	1	24500	27814	BLANK		ICP-2008 MS All possible metal
24144	2	24500	27814	LCS		ICP-2008 MS All possible metal
24144	4	24500	27814	MS	W040002103	ICP-2008 MS All possible metal
24144	5	24500	27814	MSD	W040002103	ICP-2008 MS All possible metal
24144	3	24500	27814	SAMPLE	W040002103	ICP-2008 MS All possible metal
24144	0	24500	27814	SPK-RPD	W040002103	ICP-2008 MS All possible metal
24200	1	24557	27886	BLANK		ICP Metals Analysis, Grd H20 P
24200	2	24557	27886	LCS		ICP Metals Analysis, Grd H20 P
24200	7	24557	27886	SAMPLE	W040002103	ICP Metals Analysis, Grd H20 P
24200	4	24557	27886	MS	W040002203	ICP Metals Analysis, Grd H20 P
24200	5	24557	27886	MSD	W040002203	ICP Metals Analysis, Grd H20 P
24200	0	24557	27886	SPK-RPD	W040002203	ICP Metals Analysis, Grd H20 P
24223	1	24580	27897	BLANK		Plutonium Isotopics by AEA
24223	2	24580	27897	LCS		Plutonium Isotopics by AEA
24223	3	24580	27897	DUP	W040002103	Plutonium Isotopics by AEA
24223	4	24580	27897	SAMPLE	W040002103	Plutonium Isotopics by AEA
24224	1	24581	27898	BLANK		Americium by AEA
24224	2	24581	27898	LCS		Americium by AEA
24224	3	24581	27898	DUP	W040002103	Americium by AEA
24224	4	24581	27898	SAMPLE	W040002103	Americium by AEA
24207	1	24560	27899	BLANK		Uranium Isotopics by AEA
24207	2	24560	27899	LCS		Uranium Isotopics by AEA
24207	3	24560	27899	DUP	W040002103	Uranium Isotopics by AEA
24207	4	24560	27899	SAMPLE	W040002103	Uranium Isotopics by AEA
		27930		BLANK		VOA Ground Water Protection
		27930		LCS		VOA Ground Water Protection
		27930		MS	W040002119	VOA Ground Water Protection
		27930		MSD	W040002119	VOA Ground Water Protection
		27930		SAMPLE	W040002119	VOA Ground Water Protection
		27930		SPK-RPD	W040002119	VOA Ground Water Protection
		27930		SURR	W040002119	VOA Ground Water Protection

M8141-SLF-04-375

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 7 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

12/2/04

File KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119152/ES10
Group#: 20042029
Project#: F03-018
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

The following samples were received from you on 11/02/04. 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
W040002103	B19LJ4	GRP @2008 @AB-32 @AEA-33 @GEA-GPP @VOA-GPP CN-02	Solid, or handle as if solid @AEA-30 @AEA-31 @AEA-32 @GPP6010 @IC-30 @SVOCGPP @TPHD NH4-IC PERSOLID PH-30	11/02/04

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@AB-32	Gross Alpha/Gross Beta (AB32)
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@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

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

✓
mod on 11/2/04

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 119152/ES10
Group#: 20042029
Project#: F03-018
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Phone: 373-5869

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Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W040002103	B19LJ4	GRP @2008 @AB-32 @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @SVOCGPP @TPHD CN-02 NH4-IC PERSOLID PH-30	Solid, or handle as if solid	11/02/04
W040002119	B1B9N5	GRP @VOA-GPP PERSOLID	TRENT Solid, or handle as if solid	11/02/04

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@AB-32	Gross Alpha/Gross Beta (AB32)
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@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. 12/2		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					F03-018-109	PAGE 1 OF 2			
COLLECTOR Pope/Pfister/Wiberg/Tyra		COMPANY CONTACT Steve Trent		TELEPHONE NO. 373-5869		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION 216-Z-9/C3426 - Interval 337FT-339.5FT		PROJECT DESIGNATION 216-Z-9 Trench Characterization Borehole - Soil			SAF NO. F03-018		AIR QUALITY <input type="checkbox"/>				
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-360 1		COA 119325E510		METHOD OF SHIPMENT Government Vehicle					
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO. N/A			BILL OF LADING/AIR BILL NO. N/A						
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS RADIOACTIVE TIE TO: B19LK6 <div style="text-align: center; font-size: 2em;">20042029</div>	PRESERVATION	Cool 4C	Cool 4C	Cool 4C	None	None				
		TYPE OF CONTAINER	aGs*	aG	aG	aG	Square Bottle - Poly				
		NO. OF CONTAINER(S)	3	1	1	1	1				
		VOLUME	40mL	120mL	250mL	120mL	500mL				
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B19LJ4	SOIL	11-02-04	0710	X	X	X	X	X			
	W040002103										
CHAIN OF POSSESSION		SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS					
RELINQUISHED BY/REMOVED FROM		DATE/TIME	RECEIVED BY/STORED IN		DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS					
R. PEISTER/ <i>[Signature]</i>		11-2-04 0800	<i>[Signature]</i>		11/2/04 0800						
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						
LABORATORY SECTION	RECEIVED BY	TITLE				DATE/TIME					
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY				DATE/TIME					

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-018-109	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Wlberg/Tyra	COMPANY CONTACT Steve Trent	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 216-Z-9/C3426 - Interval 337FT-339.5FT	PROJECT DESIGNATION 216-Z-9 Trench Characterization Borehole - Soil		SAF NO. F03-018	AIR QUALITY <input type="checkbox"/>	45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-360 1	COA 119325ES10	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 lab is to achieve a detection limit of 5 pCi/g and 10 pCi/g for gross alpha and gross beta, respectively. The lab is to report kerosene range organics from the WTPH-D analysis.

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol, Acetonitrile, Hexane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

(2) Semi-VOA - 8270A (TCL); Semi-VOA -- 8270A (Add-On) {1,2,4-Trimethylbenzene, Cyclohexanone, Tributyl phosphate} TPH-Diesel Range - WTPH-D (Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range)

(3) ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Beryllium, Bismuth, Lead, Lithium, Phosphorus, Selenium, Strontium} ICP/MS - 200.8 (Add-on) {Mercury, Uranium}

(4) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate} Cations (IC) 300.7 {Nitrogen in ammonium} Total Cyanide - 9010; pH (Soil) - 9045;

(5) Gross Alpha; Gross Beta; Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Cesium-134} Americium-241; Isotopic Plutonium; Isotopic Uranium; Neptunium-237;

Fluor Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F03-018-179	PAGE 1 OF 1
COLLECTOR Pepe/Pfister/Hughes / WEIL	COMPANY CONTACT Steve Trent	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ		PRICE CODE BN	DATA TURNAROUND
SAMPLING LOCATION 216-Z-9/C3426 - Interval 200-342 338-340	PROJECT DESIGNATION 216-Z-9 Trench Characterization Borehole - Soil	SAF NO. F03-018	AIR QUALITY <input type="checkbox"/> 45 Days		45 Days	
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119152ES10	METHOD OF SHIPMENT Government Vehicle			
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION Cool 4C	TYPE OF CONTAINER aGs*	NO. OF CONTAINER(S) 3	VOLUME 40mL	SPECIAL HANDLING AND/OR STORAGE
		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1B9N5	w04000249 SOIL	11-02-04	1320	X		
CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIDNS		
RELINQUISHED BY/REMOVED FROM R. PPUSTER/Hughes	DATE/TIME 11/2/04 1345	RECEIVED BY/STORED IN [Signature]	DATE/TIME 11/2/04 1345	(1)VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol, Acetonitrile, Hexane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}		
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			
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME		

Sims, Vic T

From: Mix, Pauline D
Sent: Tuesday, November 02, 2004 3:45 PM
To: Trent, Stephen J
Cc: Beebe, Kevin L; Dale, Troy F; Rich, Herlene; Sims, Vic T; Trechter, John E Jr.
Subject: RE: VOA (Soil) SAMPLE FROM Z-9 - UPDATE

Steve

Your new Z-9 VOA (B1B9N5) was received by the WSCF Laboratory this afternoon, and, per your direction, will be grouped with sample B19LJ4, under SDG# 20042029.

Pauline D. Mix

WSCF Client Services
Phone 372-1488
Cell 947-0751
FAX 372-0456
MSIN S3-30
Pauline_D_Mix@RL.gov

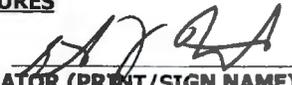
From: Mix, Pauline D
Sent: Tuesday, November 02, 2004 10:22 AM
To: Beebe, Kevin L; Sims, Vic T
Cc: Dale, Troy F; Rich, Herlene; Trechter, John E Jr.; Trent, Stephen J
Subject: VOA (Soil) SAMPLE FROM Z-9 - TO BE RESAMPLES

Kevin/Vic

I was told this morning that a VOA soil sample from GRP (B19LJ4) was inadvertently preserved. GRP plans to resample Z-9 either later this afternoon, or in the morning. When they drop off the new VOA sample, they will be picking up the old sample. thx

Pauline D. Mix

WSCF Client Services
Phone 372-1488
Cell 947-0751
FAX 372-0456
MSIN S3-30
Pauline_D_Mix@RL.gov

SAMPLE DISPOSITION RECORD		SDR NUM SDR05-010
		REV NUM 0
		DATE INITIATE 11/2/2004
<u>SAMPLE EVENT INFORMATION</u>		
SAF NUM	F03-018	
OPERABLE UNIT	200-PW-1	
PROJECT	CPP 200 Area	
SAMPLING EVENT TITLE	216-Z-9 Trench Characterization	
LABORATORY	Waste Sampling & Characterization	
<u>SAMPLING INFORMATION</u>		
NUMBER OF SAMPLES	1	
SAMPLE NUMBERS	B19LJ4	
SAMPLE MATRIX	SOIL	
SDG NUM	WSCF20042029	
COLLECTION DATE	11/2/2004	
<u>ISSUE BACKGROUND</u>		
CLASS	Project Data Use	
TYPE	Incorrect Sample Preservation	
DESCRIPTION	Volatile Organic Analyte Sample Incorrectly Preserved With Acid	
<u>DISPOSITION</u>		
DESCRIPTION	The listed sample was inadvertently preserved with acid. Because soil samples do not require acid preservation, the volatile organic analysis analysis was subsequently cancelled (see SDR05-011).	
JUSTIFICATION	The analytical method used to analyse for volatile organics is not compatible with acid preservation in soils.	
<u>APPROVAL SIGNATURES</u>		
TRENT, SJ		11/11/04
PROJECT COORDINATOR (PRINT/SIGN NAME)		DATE
ROHAT, VJ Byrnes ME Mark E. Byrnes		12/7/04
TASK MANAGER (PRINT/SIGN NAME)		DATE

SAMPLE DISPOSITION RECORD

SDR NUM SDR05-011
 REV NUM 0
 DATE INITIATE 11/2/2004

SAMPLE EVENT INFORMATION

SAF NUM F03-018
 OPERABLE UNIT 200-PW-1
 PROJECT CPP 200 Area
 SAMPLING EVENT TITLE 216-Z-9 Trench Characterization

LABORATORY Waste Sampling & Characterization

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
 SAMPLE NUMBERS B19LJ4
 SAMPLE MATRIX SOIL
 SDG NUM WSCF20042029
 COLLECTION DATE 11/2/2004

ISSUE BACKGROUND

CLASS General Laboratory Direction
 TYPE Cancellation of Analysis
 DESCRIPTION Volatile Organic Analysis Cancelled Due to Sample Preservation Issue

DISPOSITION

DESCRIPTION The listed sample was inadvertently preserved with acid. Because soil samples do not require acid preservation, the volatile organic analysis was subsequently cancelled (see SDR05-010).

JUSTIFICATION The analytical method used to analyse for volatile organics is not compatible with acid preservation in soils. A new volatile organic sample was collected for analysis.

APPROVAL SIGNATURES

TRENT, SJ
 PROJECT COORDINATOR (PRINT/SIGN NAME)

Byrnes ME
 BOHAY, VJ
 TASK MANAGER (PRINT/SIGN NAME)

11/11/04

DATE
12/7/04

DATE

ADMINISTRATIVE VERIFICATION FORM

VERIFICATION DATE: 12-13-04

VERIFIER: PC LEE

SAF NO.: F03-018

SAF TITLE: 216-Z-9 TRENCH CHARACTERIZATION
BOREHOLE - SOIL

SDG NO.: WSCF20042029

SDR NO(s): SDR05-010, SDR05-011

DATA PACKAGE DEFICIENCIES: NONE

DATE SENT TO LAB: NA

DATE LAB RESPONDED: NA

DATE VERIFICATION CLOSED: 12-13-04