0062030

Fluor Hanford
WSCF Laboratory Analytical Services
P.O. Box 1000
Richland, WA 99352
Telephone 373-7495
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FLUOR

Memorandum

W1141-04-SLF-132

To: S. J. Trent

Location: A0-21

Telephone: 373-5869

From: S. L. Fitzgerald

Location: S3-30

Date: February 26, 2004

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

Subject: REVISED ANALYTICAL REPORT FOR 200-LW-1/LW-2 CHARACTERIZATION - SOIL - SAMPLE DELIVERY GROUP WSCF20031619 – SAF NUMBER F03-025

cc: w/Attachment
T. F. Dale S3-28
S. L. Fitzgerald S3-30
H. K. Meznarich S3-30
J. E. Trechter S3-30
M. Neely S3-30

w/o Attachment
D. Hart S3-30
L. C. Swanson E6-35

The attachment is a revised analytical report for sample delivery group (WSCF20031619). The PCB QC information was updated to include all required data for this test.

SLF/grf

Attachment 1

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JUL 07 2004
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Fluor Hanford, Inc.
Post Office Box 1000
Richland, Washington 99352

FLUOR

Memorandum

W1141-04-SLF-114

To:	S. J. Trent	Date:	February 4, 2004
From:	S. L. Fitzgerald, Manager WSCF Analytical Services	Telephone:	373-7495

cc:	W/Attachments		W/O Attachments	
	T. F. Dale	S3-28	D. Hart	S3-30
	S. L. Fitzgerald	S3-30	L. C. Swanson	E6-35
	H. K. Meznarich	S3-30	File/LB	
	J. E. Trechter	S3-30		
	M. Neely	S3-30		

Subject: REVISED FINAL RESULTS FOR 200-LW-1/LW-2 CHARACTERIZATION - SOIL - SAMPLE DELIVERY GROUP WSCF20031619- SAF NUMBER F03-025

References: (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 and Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for the sample delivery group (WSCF20031619), the analytical results (Attachment 2) and the sample receipt information (Attachment 3).

slf/ddw

Attachments 3

W1141-04-SLF-114

ATTACHMENT 1

NARRATIVE

Consisting of 5 pages
Including cover page

Sample Delivery Group	**WSCF20031619**
Sample Matrix	**Soil**
Sample Visual	**Brown**
SAF Number	**F03-025**
Data Deliverable	**Summary Report**

Introduction

Six (6) soil samples (B17RT1, B17RT4, B17RT7, B17RV6, B17RV9 and B183L5) from GPP were received at the WSCF Laboratory on December 6, 2003. The samples were analyzed for those analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Protection 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

- PCB's by EPA SW-846 Method 8082. Analytical work was performed with no deviations to the approved method.
- ICP-MS Metals by EPA Method 200.8 and ICP-AES Metals by EPA SW-846 Method 6010A. Analytical work was performed with no deviations to the ICP-AES method, but a deviation to the ICP-MS did occur. See comments below.
- Semi-VOA's by EPA SW-846 Method 8270B. Analytical work was performed with no deviations to the approved method.
- VOA's by EPA SW-846 Method 8260A. Analytical work was performed with no deviations to the approved method.
- Alcohols and Glycols by EPA SW-846 Method 8015. Analytical work was performed with no deviations to the approved method.
- WTPH-D by WDOE Method NWTPH-Dx. Analytical work was performed with no deviations to the approved method.
- WTPH-G by WDOE Method NWTPH-Gx. Analytical work was performed with no deviations to the approved method.

- IC Anions and Ammonium by EPA SW-846 Method 300.0 and 300.7. Analytical work was performed with no deviations to the approved methods.

- The pH by EPA Method 150.1. 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.

- Cyanide by EPA SW-846 Method 9010. Analytical work was performed with no deviations to the approved method.

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

Comments

PCB's – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-53 for QC details.

ICP-MS and ICP-AES Metals – The hold time(s) for ICP-AES was met, but not met for mercury run by ICP-MS. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-73 through 2-76, and 2-81 for QC details. Analytical Note: For ICP-MS, the preparation Blank contained -.7 ug/L Arsenic. Flags not issued for high Silver, Arsenic, Selenium mercury and low Chrome and Copper LCS recoveries – recoveries are within manufacturer's specifications. For ICP-AES, the LCS for Bismuth was 61%. The MS/MSD was within limits, no qualifiers assigned.

VOA's – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-69 through 2-72 for QC details.

Semi-VOA's – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-59 through 2-65 for QC details. Compounds listed on the tentatively identified peak report with an "N" qualifier have been identified with the program used to interpret the raw data.

Alcohols and Glycols – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-67 for QC details. Analytical Note: The SPK-RPD for surrogate 2-Bromoethanol is slightly high at 22%. The MS and MSD were within acceptable limits.

WTPH-D – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-54 and 2-55 for details. Analytical Note: The LCS recovery for

diesel is 0.6% below the lower control limit. The MS/MSD results are within acceptable limits, sdample results are acceptable, no flags issued.

WTPH-G – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-68 for details.

IC Anions – The client requested hold time(s) for this analysis was not met. The client was notified and requested WSCF to continue with this analysis. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-56 and 2-57 for QC details. Analytical Note: Nitrate-N, Chloride, and Sulfate detected, but at concentrations less than that of the lowest calibration level. Nitrate RPD criterion (for sample and dup) not applicable for sample results less than 10X the MDL..

NH4 – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-58 for QC details. Analytical Note: Sample B17RT7 Ammonia-N result flagged as estimate due to potential sodium interference.

Percent Solids – PCB's, VOA's, Semi-VOA's, Alcohols and Glycols, WTPH-G and WTPH-D analytical results were corrected for percent solids. All other analytical results were reported for the sample as received.

CN – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-52 for QC details.

RadChem – There are no hold times associated with these WDOE accredited methods. A Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-66, 2-77 through 2-80, and 2-82 for QC details. Analytical Note: The Duplicates for Am and Pu had high RPD's, but activity is below detection level. The Np LCS recovery is low at 61.0%. This is attributed to a slight excess of ascorbic acid which can occur in the LCS due to low iron levels and which causes retention of Np during separation. This effect did not occur with the samples as evidenced by the spike recoveries (A spike was added to the B17RT1MS, B17RT4MS, B17RT7MS, B17RV6MS, B17RV9MS and B183L5MS and B17RT1MSD with recoveries of 88.9%, 88.3%, 96.9%, 95.9%, 102.6, 83.5 and 94.9% respectively, limits for the spike are 75-125%.). All other QC was acceptable (the Np preparation Blank has a negative result and Duplicate RPD high, but sample activity is below detection level) therefore no flags will be issued for Np. See page(s) 3-11, 3-12 and 3-13 for more detailed information on the Np issue.

Radiochemical Tracer Percent Recovery					
Sample Number	**Isotope**	**Blank**	**LCS**	**Sample**	**Duplicate**
B17RT1	U	78.11%	72.88%	76.57%	77.33%
	Pu	83.75%	79.87%	72.64%	8085%
	Am	73.40%	66.78%	63.88%	77.84%
B17RT4	U	78.11%	72.88%	69.66%	N/A
	Pu	83.75%	79.87%	67.30%	N/A
	Am	73.40%	66.78%	95.10%	N/A
B17RT7	U	78.11%	72.88%	74.08%	N/A
	Pu	83.75%	79.87%	86.67%	N/A
	Am	73.40%	66.78%	105.40%	N/A
B17RV6	U	78.11%	72.88%	81.25%	N/A
	Pu	83.75%	79.87%	73.82%	N/A
	Am	73.40%	66.78%	72.34%	N/A
B17RV9	U	78.11%	72.88%	77.74%	N/A
	Pu	83.75%	79.87%	75.62%	N/A
	Am	73.40%	66.78%	63.46%	N/A
B183L5	U	78.11%	72.88%	78.05%	N/A
	Pu	83.75%	79.87%	86.78%	N/A
	Am	66.01%	74.59%	71.40%	78.13%

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.

Troy Dale
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

W1141-04-SLF-132

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 2 pages
Cover page not included

WSCF
ANALYTICAL RESULTS REPORT

for

Ground Water Protection Program

Richland, WA 99352

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#: WSCF20031619
Report Date: 3-feb-2004
Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

2 - 3

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Organic														
W030001117	B17RT1	TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	12/17/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	NWTPH	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 670	ug/kg	1.00	6.7e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 97.0	ug/kg	1.00	97	12/15/03	12/06/03	12/08/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - Analyte Found In Assc. Blank
C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank
U - Analyzed for but not detected above limiting criteria.
B - The analyte < the RDL but > = the IDL/MDL (inorganic)
E - Analyte is an estimate, has potentially larger errors

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

2 - 4

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001117	B17RT1	TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 580	ug/kg	1.00	5.8e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 700	ug/kg	1.00	7.0e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	53-70-3	Dibenz[a,h]anthracene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 700	ug/kg	1.00	7.0e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - Analyte Found In Assc. Blank
C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank
U - Analyzed for but not detected above limiting criteria.
B - The analyte < the RDL but > = the IDL/MDL (inorganic)
E - Analyte is an estimate, has potentially larger errors

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

2 - 5

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001117	B17RT1 TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	360	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 90.0	ug/kg	1.00	90	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 76.0	ug/kg	1.00	76	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 490	ug/kg	1.00	4.9e+02	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	12/15/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2-6

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001117	B17RT1	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 7

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001117	B17RT1 TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 100	ug/kg	1.00	1.0e+02	12/16/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	12/12/03	12/06/03	12/08/03
W030001117	B17RT1 TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 3.20e+04	ug/kg	1.00	3.2e+04	12/17/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 98.0	ug/kg	1.00	98	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 49.0	ug/kg	1.00	49	12/12/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 660	ug/kg	1.00	6.6e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4 TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/22/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 8

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 95.0	ug/kg	1.00	95	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 570	ug/kg	1.00	5.7e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 81.0	ug/kg	1.00	81	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 81.0	ug/kg	1.00	81	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	53-70-3	Dibenz(a,h)anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03

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RQ=Result Qualifier

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WSCF
ANALYTICAL RESULTS REPORT

2-9

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	340	ug/kg	1.00	1.9e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 88.0	ug/kg	1.00	88	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 81.0	ug/kg	1.00	81	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 290	ug/kg	1.00	2.9e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 81.0	ug/kg	1.00	81	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 74.0	ug/kg	1.00	74	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 470	ug/kg	1.00	4.7e+02	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/22/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 7.70e+03	ug/kg	1.00	7.7e+03	12/12/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2-10

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 7.70e+03	ug/kg	1.00	7.7e+03	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	12/17/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	NWTPH	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 50.0	ug/kg	1.00	50	12/12/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 660	ug/kg	1.00	6.6e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 95.0	ug/kg	1.00	95	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7	TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 570	ug/kg	1.00	5.7e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 82.0	ug/kg	1.00	82	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 82.0	ug/kg	1.00	82	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	53-70-3	Dibenz[a,h]anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 680	ug/kg	1.00	6.8e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7 TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	350	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 88.0	ug/kg	1.00	88	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 82.0	ug/kg	1.00	82	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 290	ug/kg	1.00	2.9e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 82.0	ug/kg	1.00	82	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 75.0	ug/kg	1.00	75	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 480	ug/kg	1.00	4.8e+02	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 68.0	ug/kg	1.00	68	12/15/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7 TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 10.0	ug/kg	1.00	10	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 200	ug/kg	1.00	2.0e+02	12/16/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	12/12/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	12/12/03	12/06/03	12/08/03
W030001120	B17RV6 TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	12/17/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	NWTPH	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 690	ug/kg	1.00	6.9e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 110	ug/kg	1.00	1.1e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 160	ug/kg	1.00	1.6e+02	12/15/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6 TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 99.0	ug/kg	1.00	99	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 590	ug/kg	1.00	5.9e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 710	ug/kg	1.00	7.1e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	53-70-3	Dibenz(a,h)anthracene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 710	ug/kg	1.00	7.1e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6 TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	900	ug/kg	1.00	2.0e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 92.0	ug/kg	1.00	92	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 390	ug/kg	1.00	3.9e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 280	ug/kg	1.00	2.8e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 490	ug/kg	1.00	4.9e+02	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 71.0	ug/kg	1.00	71	12/15/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6 TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 40.0	ug/kg	1.00	40	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 4.00e+03	ug/kg	1.00	4.0e+03	12/12/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 4.00e+03	ug/kg	1.00	4.0e+03	12/12/03	12/07/03	12/08/03
W030001121	B17RV9 TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	12/17/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	NWTPH	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 51.0	ug/kg	1.00	51	12/12/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 670	ug/kg	1.00	6.7e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9	TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 96.0	ug/kg	1.00	96	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 260	ug/kg	1.00	2.6e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 580	ug/kg	1.00	5.8e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 690	ug/kg	1.00	6.9e+02	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9 TRENT	53-70-3	Dibenz(a,h)anthracene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 690	ug/kg	1.00	6.9e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 330	ug/kg	1.00	3.3e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	520	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 90.0	ug/kg	1.00	90	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 380	ug/kg	1.00	3.8e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 300	ug/kg	1.00	3.0e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 370	ug/kg	1.00	3.7e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 76.0	ug/kg	1.00	76	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9	TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 480	ug/kg	1.00	4.8e+02	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 69.0	ug/kg	1.00	69	12/15/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 2.00	ug/kg	1.00	2.0	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 40.0	ug/kg	1.00	40	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	12/12/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 3.90e+03	ug/kg	1.00	3.9e+03	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	107-21-1	Ethylene glycol	SOIL	Organics	U	< 5.00e+03	ug/kg	1.00	5.0e+03	12/17/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	TPHGASOLINE	Total Pet. Hydrocarbons Gas	SOIL	NWTPH	U	< 250	ug/kg	1.00	2.5e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 100	ug/kg	1.00	1.0e+02	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427		930	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 52.0	ug/kg	1.00	52	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 700	ug/kg	1.00	7.0e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	106-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 110	ug/kg	1.00	1.1e+02	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5 TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	621-64-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	83-32-9	Acenaphthene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-456	U	< 320	ug/kg	1.00	3.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 160	ug/kg	1.00	1.6e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	108-60-1	Bis(2-chloro-1-methylethyl)eth	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 270	ug/kg	1.00	2.7e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	111-91-1	Bis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	117-81-7	Bis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 600	ug/kg	1.00	6.0e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	86	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	132-64-9	Dibenzofuran	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5 TRENT	208-96-8	Acenaphthylene	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	86	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 720	ug/kg	1.00	7.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	53-70-3	Dibenz[a,h]anthracene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 720	ug/kg	1.00	7.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	7005-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 340	ug/kg	1.00	3.4e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	B	490	ug/kg	1.00	2.0e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	85-01-8	Phenanthrene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	85-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	86	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 390	ug/kg	1.00	3.9e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 310	ug/kg	1.00	3.1e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 190	ug/kg	1.00	1.9e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	86	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5 TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 390	ug/kg	1.00	3.9e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 79.0	ug/kg	1.00	79	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 280	ug/kg	1.00	2.8e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	65794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 500	ug/kg	1.00	5.0e+02	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	88-06-2	2,4,6-Trichlorophenol	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	12/15/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	75-35-4	1,1-Dichloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	79-01-6	Trichloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	71-43-2	Benzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	108-88-3	Toluene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	108-90-7	Chlorobenzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	75-34-3	1,1-Dichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	100-41-4	Ethylbenzene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	100-42-5	Styrene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	10061-01-5	cis-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	10061-02-6	trans-1,3-Dichloropropene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	107-06-2	1,2-Dichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	108-10-1	4-Methyl-2-Pentanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	124-48-1	Dibromochloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	127-18-4	Tetrachloroethene	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	1330-20-7	Xylenes (total)	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	540-59-0	1,2-Dichloroethene(Total)	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	56-23-5	Carbon tetrachloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	591-78-6	2-Hexanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	67-64-1	Acetone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 26

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5	TRENT	67-66-3	Chloroform	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	71-55-6	1,1,1-Trichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	74-83-9	Bromomethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	74-87-3	Chloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-00-3	Chloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-01-4	Vinyl chloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-09-2	Methylenechloride	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-15-0	Carbon disulfide	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-25-2	Bromoform	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	75-27-4	Bromodichloromethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	78-87-5	1,2-Dichloropropane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	78-93-3	2-Butanone	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	79-00-5	1,1,2-Trichloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	SOIL	LA-523-455	U	< 5.00	ug/kg	1.00	5.0	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	71-36-3	1-Butanol	SOIL	LA-523-455	U	< 100	ug/kg	1.00	1.0e+02	12/16/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	TPHDIESEL	Total Pet. Hydrocarbons Diesel	SOIL	NWTPH	U	< 4.00e+03	ug/kg	1.00	4.0e+03	12/12/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	TPHKEROSENE	Kerosene	SOIL	NWTPH	U	< 4.00e+03	ug/kg	1.00	4.0e+03	12/12/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Inorganic														
W030001117	B17RT1	TRENT	57-12-5	Cyanide	SOIL	LA-695-402		< 0.200	mg/kg	1.00	0.20	12/16/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	0.221	mg/kg	50.00	0.20	12/17/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	TS	Total solids	SOIL	LA-519-412		95.1	%	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	PH	pH Measurement	SOIL	LA-212-411		8.87	pH	1.00	0.010	12/09/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	3.99	mg/kg	50.00	2.6	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	0.838	mg/kg	50.00	0.65	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	U	< 5.00	mg/kg	50.00	5.0	12/11/03	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-42-8	Boron	SOIL	LA-505-411	U	< 5.09	mg/kg	1.00	5.1	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 4.99	mg/kg	1.00	5.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 4.95	mg/kg	9.90	5.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-38-2	Arsenic	SOIL	LA-505-412	C	6.61	mg/kg	9.90	3.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-39-3	Barium	SOIL	LA-505-412		66.8	mg/kg	9.90	2.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 2.97	mg/kg	9.90	3.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.990	mg/kg	9.90	0.99	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		4.13	mg/kg	9.90	3.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 4.95	mg/kg	9.90	5.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 11.9	mg/kg	9.90	12	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-02-0	Nickel	SOIL	LA-505-412		7.76	mg/kg	9.90	5.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7782-49-2	Selenium	SOIL	LA-505-412		4.70	mg/kg	9.90	3.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.98	mg/kg	9.90	2.0	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.990	mg/kg	9.90	0.99	01/08/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.990	mg/kg	9.90	0.99	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	12/16/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	1.41	mg/kg	45.00	0.18	12/17/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	TS	Total solids	SOIL	LA-519-412		97.0	%	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	PH	pH Measurement	SOIL	LA-212-411		9.83	pH	1.00	0.010	12/18/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.04	mg/kg	45.00	1.0	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	4.45	mg/kg	45.00	2.3	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.855	mg/kg	45.00	0.86	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	1.00	mg/kg	45.00	0.58	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	U	< 2.43	mg/kg	45.00	2.4	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	6.37	mg/kg	45.00	4.5	12/11/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 10.0	mg/kg	1.00	10	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 10.0	mg/kg	20.00	10	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-38-2	Arsenic	SOIL	LA-505-412		16.0	mg/kg	20.00	6.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-39-3	Barium	SOIL	LA-505-412		73.3	mg/kg	20.00	4.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 6.00	mg/kg	20.00	6.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 2.00	mg/kg	20.00	2.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-47-3	Chromium	SOIL	LA-505-412	U	< 6.00	mg/kg	20.00	6.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 10.0	mg/kg	20.00	10	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 24.0	mg/kg	20.00	24	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-02-0	Nickel	SOIL	LA-505-412	U	< 10.0	mg/kg	20.00	10	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7782-49-2	Selenium	SOIL	LA-505-412		13.0	mg/kg	20.00	6.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 4.00	mg/kg	20.00	4.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 2.00	mg/kg	20.00	2.0	01/08/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 2.00	mg/kg	20.00	2.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	12/16/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	E	2.92	mg/kg	50.00	0.20	12/17/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	TS	Total solids	SOIL	LA-519-412		97.5	%	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	PH	pH Measurement	SOIL	LA-212-411		9.82	pH	1.00	0.010	12/09/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7 TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	3.42	mg/kg	50.00	2.6	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	0.734	mg/kg	50.00	0.65	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	5.49	mg/kg	50.00	5.0	12/11/03	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 5.00	mg/kg	1.00	5.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 4.93	mg/kg	9.86	4.9	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-38-2	Arsenic	SOIL	LA-505-412		8.18	mg/kg	9.86	3.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-39-3	Barium	SOIL	LA-505-412		66.3	mg/kg	9.86	2.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 2.96	mg/kg	9.86	3.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.986	mg/kg	9.86	0.99	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-47-3	Chromium	SOIL	LA-505-412	U	< 2.96	mg/kg	9.86	3.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 4.93	mg/kg	9.86	4.9	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 11.8	mg/kg	9.86	12	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-02-0	Nickel	SOIL	LA-505-412		7.63	mg/kg	9.86	4.9	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7782-49-2	Selenium	SOIL	LA-505-412		7.07	mg/kg	9.86	3.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.97	mg/kg	9.86	2.0	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.986	mg/kg	9.86	0.99	01/08/04	12/06/03	12/08/03
W030001119	B17RT7 TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.986	mg/kg	9.86	0.99	01/08/04	12/06/03	12/08/03
W030001120	B17RV6 TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	12/16/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	0.349	mg/kg	50.00	0.20	12/17/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	TS	Total solids	SOIL	LA-519-412		94.0	%	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	PH	pH Measurement	SOIL	LA-212-411		8.94	pH	1.00	0.010	12/09/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	12/11/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	9.02	mg/kg	50.00	2.6	12/11/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	12/11/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 30

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	1.89	mg/kg	50.00	0.65	12/11/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	12/11/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	19.2	mg/kg	50.00	5.0	12/11/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 4.96	mg/kg	1.00	5.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 4.99	mg/kg	9.98	5.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-38-2	Arsenic	SOIL	LA-505-412		13.1	mg/kg	9.98	3.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-39-3	Barium	SOIL	LA-505-412		78.1	mg/kg	9.98	2.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 2.99	mg/kg	9.98	3.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.998	mg/kg	9.98	1.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-47-3	Chromium	SOIL	LA-505-412		5.19	mg/kg	9.98	3.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 4.99	mg/kg	9.98	5.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 12.0	mg/kg	9.98	12	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-02-0	Nickel	SOIL	LA-505-412		9.29	mg/kg	9.98	5.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7782-49-2	Selenium	SOIL	LA-505-412		8.64	mg/kg	9.98	3.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 2.00	mg/kg	9.98	2.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.998	mg/kg	9.98	1.0	01/08/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.998	mg/kg	9.98	1.0	01/08/04	12/07/03	12/08/03
W030001121	B17RV9	TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	12/16/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401		< 0.196	mg/kg	49.00	0.20	12/17/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	TS	Total solids	SOIL	LA-519-412		96.0	%	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	PH	pH Measurement	SOIL	LA-212-411		9.08	pH	1.00	0.010	12/09/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.13	mg/kg	49.00	1.1	12/11/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	5.28	mg/kg	49.00	2.5	12/11/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.931	mg/kg	49.00	0.93	12/11/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	1.86	mg/kg	49.00	0.64	12/11/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	U	< 2.65	mg/kg	49.00	2.6	12/11/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	12.3	mg/kg	49.00	4.9	12/11/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9 TRENT	7440-69-9	Bismuth	SOIL	LA-505-411	U	< 4.98	mg/kg	1.00	5.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 4.92	mg/kg	9.84	4.9	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-38-2	Arsenic	SOIL	LA-505-412	C	6.93	mg/kg	9.84	3.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-39-3	Barium	SOIL	LA-505-412		62.5	mg/kg	9.84	2.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 2.95	mg/kg	9.84	3.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.984	mg/kg	9.84	0.98	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-47-3	Chromium	SOIL	LA-505-412		3.37	mg/kg	9.84	3.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 4.92	mg/kg	9.84	4.9	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 11.8	mg/kg	9.84	12	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-02-0	Nickel	SOIL	LA-505-412		8.07	mg/kg	9.84	4.9	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7782-49-2	Selenium	SOIL	LA-505-412		6.37	mg/kg	9.84	3.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.97	mg/kg	9.84	2.0	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.984	mg/kg	9.84	0.98	01/08/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.984	mg/kg	9.84	0.98	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-69-9	Bismuth	SOIL	LA-505-411		9.87	mg/kg	1.00	5.0	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	57-12-5	Cyanide	SOIL	LA-695-402	U	< 0.200	mg/kg	1.00	0.20	12/16/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	NH4-N	Nitrogen in ammonium	SOIL	LA-503-401	B	1.89	mg/kg	50.00	0.20	12/17/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	TS	Total solids	SOIL	LA-519-412		92.6	%	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	PH	pH Measurement	SOIL	LA-212-411		9.18	pH	1.00	0.010	12/09/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	16984-48-8	Fluoride	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	16887-00-6	Chloride	SOIL	LA-533-410	B	6.44	mg/kg	50.00	2.6	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	NO2-N	Nitrogen in Nitrite	SOIL	LA-533-410	U	< 0.950	mg/kg	50.00	0.95	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	NO3-N	Nitrogen in Nitrate	SOIL	LA-533-410	B	1.54	mg/kg	50.00	0.65	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	14265-44-2	Phosphate	SOIL	LA-533-410	B	4.54	mg/kg	50.00	2.7	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	14808-79-8	Sulfate	SOIL	LA-533-410	B	15.9	mg/kg	50.00	5.0	12/11/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-36-0	Antimony	SOIL	LA-505-412	U	< 4.87	mg/kg	9.74	4.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-38-2	Arsenic	SOIL	LA-505-412		8.78	mg/kg	9.74	2.9	01/08/04	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5 TRENT	7440-39-3	Barium	SOIL	LA-505-412		69.8	mg/kg	9.74	2.0	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-41-7	Beryllium	SOIL	LA-505-412	U	< 2.92	mg/kg	9.74	2.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-43-9	Cadmium	SOIL	LA-505-412	U	< 0.974	mg/kg	9.74	0.97	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-47-3	Chromium	SOIL	LA-505-412		6.15	mg/kg	9.74	2.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-50-8	Copper	SOIL	LA-505-412	U	< 4.87	mg/kg	9.74	4.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7439-92-1	Lead	SOIL	LA-505-412	U	< 11.7	mg/kg	9.74	12	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-02-0	Nickel	SOIL	LA-505-412		7.87	mg/kg	9.74	4.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7782-49-2	Selenium	SOIL	LA-505-412		7.34	mg/kg	9.74	2.9	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-22-4	Silver	SOIL	LA-505-412	U	< 1.95	mg/kg	9.74	2.0	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7440-61-1	Uranium	SOIL	LA-505-412	U	< 0.974	mg/kg	9.74	0.97	01/08/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	7439-97-6	Mercury	SOIL	LA-505-412	U	< 0.974	mg/kg	9.74	0.97	01/08/04	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry														
W030001117	B17RT1	TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	3.20e-03	pCi/g	1.00	3.8e-03	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 4.5e-03	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471		0.0790	pCi/g	1.00	0.051	01/05/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.041	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-0.0234	pCi/g	1.00	0.042	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.026	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-1.06e-03	pCi/g	1.00	0.014	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.5e-03	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0386	pCi/g	1.00	0.040	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.014	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462		0.184	pCi/g	1.00	0.016	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.039	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	4.06e-03	pCi/g	1.00	0.048	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.041	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0304	pCi/g	1.00	0.046	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.030	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0181	pCi/g	1.00	0.083	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.049	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471		0.130	pCi/g	1.00	0.057	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.056	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		2.00	pCi/g	1.00	5.4e-03	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.52	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.120	pCi/g	1.00	0.019	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.044	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0200	pCi/g	1.00	5.9e-03	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.014	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001117	B17RT1	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.140	pCi/g	1.00	5.4e-03	01/06/04	12/06/03	12/08/03
W030001117	B17RT1	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.049	pCi/g	1.00	0.10	01/06/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	3.40e-03	pCi/g	1.00	0.011	01/06/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 6.8e-03	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471		18.0	pCi/g	1.00	0.049	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 3.1	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14596-10-2	Americium-241	SOIL	LA-508-462		19.7	pCi/g	1.00	0.41	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 2.7	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-9.92e-04	pCi/g	1.00	0.23	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 9.9e-03	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13981-41-4	Ba-133 by GEA	SOIL	LA-508-462	U	0.0230	pCi/g	1.00	0.095	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ba-133 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.064	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0626	pCi/g	1.00	0.50	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.31	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	CE/PR-144	Cerium/Praseodymium-144	SOIL	LA-508-462	U	0.125	pCi/g	1.00	1.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	CePr-144 Rel. Count Error	SOIL	LA-508-462		+- 0.62	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462		0.0792	pCi/g	1.00	0.015	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.018	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462		0.0338	pCi/g	1.00	0.021	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.017	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462		96.4	pCi/g	1.00	0.046	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 15	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0502	pCi/g	1.00	0.22	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.13	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15585-10-1	Europium-154	SOIL	LA-508-462	U	0.0281	pCi/g	1.00	0.045	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.027	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0283	pCi/g	1.00	0.26	12/10/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.16	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13966-00-2	Potassium-40	SOIL	LA-508-462		10.5	pCi/g	1.00	0.10	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	K-40 Rel.% Count Error (GEA)	SOIL	LA-508-462		+- 1.4	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14681-63-1	Niobium-94	SOIL	LA-508-462	U	-1.63e-03	pCi/g	1.00	0.016	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 9.8e-03	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13982-63-3	Radium-226	SOIL	LA-508-462		0.328	pCi/g	1.00	0.10	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.097	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15262-20-1	Radium-228	SOIL	LA-508-462		0.695	pCi/g	1.00	0.050	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.13	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0437	pCi/g	1.00	0.47	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.29	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.132	pCi/g	1.00	0.18	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.12	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15065-10-8	Thorium-234	SOIL	LA-508-462	U	-0.860	pCi/g	1.00	3.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.0	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-462	U	8.77e-03	pCi/g	1.00	0.51	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.088	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13982-39-3	Zinc-65	SOIL	LA-508-462	U	-0.0117	pCi/g	1.00	0.028	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.020	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14331-83-0	Actinium-228	SOIL	LA-508-462		0.695	pCi/g	1.00	0.050	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.13	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.392	pCi/g	1.00	0.14	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.12	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.328	pCi/g	1.00	0.10	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.097	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15092-94-1	Lead-212	SOIL	LA-508-462		0.612	pCi/g	1.00	0.14	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.14	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

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U - Analyzed for but not detected above limiting criteria.
B - The analyte < the RDL but > = the IDL/MDL (inorganic)
E - Analyte is an estimate, has potentially larger errors

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

WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001118	B17RT4	TRENT	15067-28-4	Lead-214	SOIL	LA-508-462		0.324	pCi/g	1.00	0.16	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.12	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	7.97e-05	pCi/g	1.00	0.071	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.0e-04	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13966-06-8	Tin-113	SOIL	LA-508-462	U	0.0144	pCi/g	1.00	0.099	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.059	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	14913-50-9	Thallium-208	SOIL	LA-508-462		0.240	pCi/g	1.00	0.056	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.065	pCi/g	1.00	0.0	12/10/03	12/06/03	12/08/03
W030001118	B17RT4	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471		2.00	pCi/g	1.00	0.042	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.52	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		40.0	pCi/g	1.00	6.2e-03	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 10	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.160	pCi/g	1.00	0.015	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.054	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0200	pCi/g	1.00	6.1e-03	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.014	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.130	pCi/g	1.00	0.015	01/05/04	12/06/03	12/08/03
W030001118	B17RT4	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.047	pCi/g	1.00	0.10	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	-4.80e-03	pCi/g	1.00	0.021	01/06/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 8.6e-03	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471		25.0	pCi/g	1.00	0.034	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 4.2	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	0.0206	pCi/g	1.00	0.13	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.080	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462		0.0765	pCi/g	1.00	8.3e-03	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.015	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0389	pCi/g	1.00	0.040	12/18/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001119	B17RT7	TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.013	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462		77.2	pCi/g	1.00	0.026	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 12	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	0.0148	pCi/g	1.00	0.12	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.074	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	15585-10-1	Europium-154	SOIL	LA-508-462	U	0.0255	pCi/g	1.00	0.029	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.019	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0643	pCi/g	1.00	0.15	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.095	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001119	B17RT7	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471		3.40	pCi/g	1.00	0.041	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.88	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		60.0	pCi/g	1.00	0.017	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 15	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.190	pCi/g	1.00	0.015	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.063	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0180	pCi/g	1.00	6.0e-03	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.014	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.160	pCi/g	1.00	5.5e-03	01/05/04	12/06/03	12/08/03
W030001119	B17RT7	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.054	pCi/g	1.00	0.10	01/05/04	12/06/03	12/08/03
W030001120	B17RV6	TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	-5.90e-03	pCi/g	1.00	0.018	01/06/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 5.9e-03	pCi/g	1.00	0.0	01/06/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471	U	0.0230	pCi/g	1.00	0.056	01/05/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.034	pCi/g	1.00	0.0	01/05/04	12/07/03	12/08/03
W030001120	B17RV6	TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	7.95e-03	pCi/g	1.00	0.031	12/18/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.018	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-8.92e-04	pCi/g	1.00	0.011	12/18/03	12/07/03	12/08/03
W030001120	B17RV6	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.3e-03	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001120	B17RV6 TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0331	pCi/g	1.00	0.040	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.012	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462		0.0163	pCi/g	1.00	0.010	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.6e-03	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0170	pCi/g	1.00	0.034	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.022	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0111	pCi/g	1.00	0.034	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.024	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	14391-16-3	Europium-155	SOIL	LA-508-462		0.0584	pCi/g	1.00	0.050	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.043	pCi/g	1.00	0.0	12/18/03	12/07/03	12/08/03
W030001120	B17RV6 TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	0.0280	pCi/g	1.00	0.056	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.034	pCi/g	1.00	0.0	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		0.0320	pCi/g	1.00	0.019	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.020	pCi/g	1.00	0.0	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.190	pCi/g	1.00	0.019	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.063	pCi/g	1.00	0.0	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0130	pCi/g	1.00	6.0e-03	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.011	pCi/g	1.00	0.0	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.180	pCi/g	1.00	5.5e-03	01/05/04	12/07/03	12/08/03
W030001120	B17RV6 TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.059	pCi/g	1.00	0.10	01/05/04	12/07/03	12/08/03
W030001121	B17RV9 TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471	U	1.50e-03	pCi/g	1.00	0.016	01/07/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 0.015	pCi/g	1.00	0.0	01/07/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	14596-10-2	Americium-241	SOIL	LA-508-471	U	0.0460	pCi/g	1.00	0.060	01/05/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.039	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001121	B17RV9 TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	9.24e-03	pCi/g	1.00	0.027	12/18/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.016	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9 TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-1.26e-03	pCi/g	1.00	9.4e-03	12/18/03	12/06/03	12/08/03

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WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001121	B17RV9	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.6e-03	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0251	pCi/g	1.00	0.030	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.010	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-7.75e-03	pCi/g	1.00	9.7e-03	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.8e-03	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	-9.99e-03	pCi/g	1.00	0.029	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.018	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	15585-10-1	Europium-154	SOIL	LA-508-462	U	-6.11e-04	pCi/g	1.00	0.030	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.1e-03	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	14391-16-3	Europium-155	SOIL	LA-508-462		0.0621	pCi/g	1.00	0.042	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.040	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001121	B17RV9	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	0.0130	pCi/g	1.00	0.064	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.038	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471	U	-4.30e-03	pCi/g	1.00	0.026	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 0.011	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.150	pCi/g	1.00	5.8e-03	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.052	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471	U	9.30e-03	pCi/g	1.00	0.017	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.011	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.170	pCi/g	1.00	0.016	01/05/04	12/06/03	12/08/03
W030001121	B17RV9	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.058	pCi/g	1.00	0.10	01/05/04	12/06/03	12/08/03
W030001123	B183L5	TRENT	13994-20-2	Neptunium-237	SOIL	LA-508-471		0.0320	pCi/g	1.00	0.016	01/06/04	12/06/03	12/08/03
W030001123	B183L5	TRENT	E,T,C	Np-237 by AEA Total Ctng Error	SOIL	LA-508-471		+- 0.019	pCi/g	1.00	0.0	01/06/04	12/06/03	12/08/03
W030001123	B183L5	TRENT	14596-10-2	Americium-241	SOIL	LA-508-471		250	pCi/g	1.00	0.76	01/26/04	12/06/03	12/08/03
W030001123	B183L5	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471		+- 42	pCi/g	1.00	0.0	01/26/04	12/06/03	12/08/03
W030001123	B183L5	TRENT	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-1.06	pCi/g	1.00	3.5	12/18/03	12/06/03	12/08/03
W030001123	B183L5	TRENT	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.1	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - Analyte Found In Assc. Blank
C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank
U - Analyzed for but not detected above limiting criteria.
B - The analyte < the RDL but > = the IDL/MDL (inorganic)
E - Analyte is an estimate, has potentially larger errors

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031619

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030001123	B183L5 TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-462		4.63	pCi/g	1.00	0.12	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.65	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.306	pCi/g	1.00	0.47	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.28	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	10045-97-3	Cesium-137	SOIL	LA-508-462		1.30e+04	pCi/g	1.00	0.95	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.3e+03	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	14683-23-9	Europium-152	SOIL	LA-508-462	U	0.254	pCi/g	1.00	2.9	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 1.7	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	15585-10-1	Europium-154	SOIL	LA-508-462		3.85	pCi/g	1.00	0.80	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.88	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.259	pCi/g	1.00	2.6	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 1.5	pCi/g	1.00	0.0	12/18/03	12/06/03	12/08/03
W030001123	B183L5 TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471		31.0	pCi/g	1.00	0.028	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 7.8	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471		310	pCi/g	1.00	0.099	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471		+- 78	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.310	pCi/g	1.00	5.7e-03	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471		+- 0.093	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	15117-96-1	Uranium-235	SOIL	LA-508-471		0.0140	pCi/g	1.00	6.2e-03	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.012	pCi/g	1.00	0.0	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.260	pCi/g	1.00	0.019	01/05/04	12/06/03	12/08/03
W030001123	B183L5 TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471		+- 0.081	pCi/g	1.00	0.10	01/05/04	12/06/03	12/08/03

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - Analyte Found In Assc. Blank
C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank
U - Analyzed for but not detected above limiting criteria.

B - The analyte < the RDL but > = the IDL/MDL (inorganic)
E - Analyte is an estimate, has potentially larger errors

DF=Dilution Factor

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

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-025

Group #: WSCF20031619

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		TPH-Diesel: LCS recovery for diesel is 0.6% below the lower control limit. Results acceptable. MS/MSD in control.cgc SVOA: Sample results are corrected for moisture. den Sample W03001119/23 contained Am-241 at 20/200 pCi/g. ICP-AES: Bismuth LCS recovery was low (61%), the MS/MSD was within limits therefore no qualifiers given.

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

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent **Group #:** WSCF20031619
Project Number F03-025 :F03-025

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	BA-133				0.055	pCi/g
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.54	pCi/g
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.86	pCi/g
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.86	pCi/g
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	K-40				17	pCi/g
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				17	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				17	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				18	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				18	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				18	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				27	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				27	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	BA-133 Count Error				31	%
W030001117	B17RT1 TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				36	%
W030001118	B17RT4 TRENT	SW-846 8270B Semi-Vols	SMP 5.146 Unknown	Unknown	5.146916		3.0e+02	ug/kg
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.42	pCi/g
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.74	pCi/g
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.74	pCi/g
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	AM-241 Count Error				14	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				16	%

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

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

Group #: WSCF20031619

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				19	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				24	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				24	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				25	%
W030001119	B17RT7 TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				28	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.56	pCi/g
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.79	pCi/g
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.79	pCi/g
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				13	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	K-40				15	pCi/g
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				23	%
W030001120	B17RV6 TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				23	%
W030001121	B17RV9 TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.40	pCi/g
W030001121	B17RV9 TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.50	pCi/g
W030001121	B17RV9 TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.50	pCi/g
W030001121	B17RV9 TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

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

Group #: WSCF20031619

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				15	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				17	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				17	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				18	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				18	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				22	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				30	%
W030001121	B17RV9	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				30	%
W030001121	B17RV9	TRENT	SW-846 8270B Semi-Vols	SMP 13.465 Unknown	Unknown	13.46585		1.4e+03	ug/kg
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	AC-228				1.9	pCi/g
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	RA-228				1.9	pCi/g
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	AM-241 Count Error				14	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	K-40				15	pCi/g
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				16	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	NB-94 Count Error				30	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				42	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				44	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				44	%
W030001123	B183L5	TRENT	Gamma Energy Analysis-grd H2O	BI-212				7.1	pCi/g
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 16.460 1,1'-Biphenyl, 2',3,4,	70424-70-3	16.46028		1.2e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 24.388 Unknown	Unknown	24.38838		1.2e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 21.813 Unknown	Unknown	21.8138		1.4e+03	ug/kg

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

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

Group #: WSCF20031619

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 19.841 Bis(2-ethylhexyl) phth	117-81-7	19.84198		3.0e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 19.484 Unknown	Unknown	19.4844		3.4e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 20.914 Unknown	Unknown	20.91473		4.5e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 21.088 Unknown	Unknown	21.08841		4.9e+03	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 23.857 Unknown	Unknown	23.85711		6.3e+02	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 19.555 Unknown	Unknown	19.55591		7.1e+02	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 22.518 Hexatriacontane	630-06-8	22.51873		8.4e+02	ug/kg
W030001123	B183L5	TRENT	SW-846 8270B Semi-Vols	SMP 16.061 Unknown	Unknown	16.06185		8.5e+02	ug/kg

RQ=Result Qualifier

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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-508-462	Gamma Energy Analysis -- the Genie System -- WSCF	
	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-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C	
	EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	Standard Methods 2540B	Total Solids Dried at 103-105 C
LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY	
	EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)

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

WSCF
METHOD REFERENCES REPORT

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.

	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
LA-523-455	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	LA-523-443: GAS CHROMATOGRAPH ANALYSIS OF GASOLINE RANGE TOTAL PETROLEUM HYDROCA	
	WDOE NWTPH-Dx/Gx	Total Petroleum Hydrocarbons - Diesel/Gasoline
Organics	Organics - Alcohols, Glycols	
	EPA SW-846 8015B	Nonhalogenated Organics Using GC/FID

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

w13qlog v1 03-feb-2004 13:28:23

W13q Worklist/Batch/QC Report for Group# WSCF20031619

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W030001123	Bismuth by ICP
				SAMPLE	W030001117	Percent Solids
				SAMPLE	W030001118	Percent Solids
				SAMPLE	W030001119	Percent Solids
				SAMPLE	W030001120	Percent Solids
				SAMPLE	W030001121	Percent Solids
				SAMPLE	W030001123	Percent Solids
				SAMPLE	W030001117	pH Soil and Waste Measurement
				SAMPLE	W030001118	pH Soil and Waste Measurement
				SAMPLE	W030001119	pH Soil and Waste Measurement
				SAMPLE	W030001120	pH Soil and Waste Measurement
				SAMPLE	W030001121	pH Soil and Waste Measurement
				SAMPLE	W030001123	pH Soil and Waste Measurement
20969	1	21351	24283	SAMPLE	W030001118	Gamma Energy Analysis-grd H2O
			24349	BLANK		Cyanide by Midi/Spectrophotom
			24349	BLNK-PREP		Cyanide by Midi/Spectrophotom
			24349	DUP		Cyanide by Midi/Spectrophotom
			24349	LCS		Cyanide by Midi/Spectrophotom
			24349	LCS-2		Cyanide by Midi/Spectrophotom
			24349	MS	W030001117	Cyanide by Midi/Spectrophotom
			24349	MSD	W030001117	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001117	Cyanide by Midi/Spectrophotom
			24349	SPK-RPD	W030001117	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001118	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001119	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001120	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001121	Cyanide by Midi/Spectrophotom
			24349	SAMPLE	W030001123	Cyanide by Midi/Spectrophotom
			24376	BLANK		PCBs complete list
			24376	LCS		PCBs complete list
			24376	SAMPLE	W030001117	PCBs complete list
			24376	SAMPLE	W030001118	PCBs complete list
			24376	SAMPLE	W030001119	PCBs complete list
			24376	SAMPLE	W030001120	PCBs complete list
			24376	SAMPLE	W030001121	PCBs complete list
			24376	SAMPLE	W030001123	PCBs complete list
			24406	BLANK		WTPH-D TPH Diesel Range (Wa)
			24406	LCS		WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001117	WTPH-D TPH Diesel Range (Wa)
			24406	SURR	W030001117	WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001118	WTPH-D TPH Diesel Range (Wa)
			24406	SURR	W030001118	WTPH-D TPH Diesel Range (Wa)
			24406	MS	W030001119	WTPH-D TPH Diesel Range (Wa)
			24406	MSD	W030001119	WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001119	WTPH-D TPH Diesel Range (Wa)
			24406	SPK-RPD	W030001119	WTPH-D TPH Diesel Range (Wa)
			24406	SURR	W030001119	WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001120	WTPH-D TPH Diesel Range (Wa)
			24406	SURR	W030001120	WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001121	WTPH-D TPH Diesel Range (Wa)

			24406	SURR	W030001121	WTPH-D TPH Diesel Range (Wa)
			24406	SAMPLE	W030001123	WTPH-D TPH Diesel Range (Wa)
			24406	SURR	W030001123	WTPH-D TPH Diesel Range (Wa)
21057	2	21436	24422	BLANK		Anions by Ion Chromatography
21057	16	21436	24422	BLANK		Anions by Ion Chromatography
21057	3	21436	24422	LCS		Anions by Ion Chromatography
21057	5	21436	24422	DUP	W030001117	Anions by Ion Chromatography
21057	6	21436	24422	MS	W030001117	Anions by Ion Chromatography
21057	7	21436	24422	MSD	W030001117	Anions by Ion Chromatography
21057	4	21436	24422	SAMPLE	W030001117	Anions by Ion Chromatography
21057	8	21436	24422	SAMPLE	W030001118	Anions by Ion Chromatography
21057	9	21436	24422	SAMPLE	W030001119	Anions by Ion Chromatography
21057	10	21436	24422	SAMPLE	W030001120	Anions by Ion Chromatography
21057	11	21436	24422	SAMPLE	W030001121	Anions by Ion Chromatography
21057	12	21436	24422	SAMPLE	W030001123	Anions by Ion Chromatography
21095	1	21474	24442	BLANK		Ammonia (N) by IC
21095	17	21474	24442	BLANK		Ammonia (N) by IC
21095	3	21474	24442	LCS		Ammonia (N) by IC
21095	5	21474	24442	DUP	W030001117	Ammonia (N) by IC
21095	6	21474	24442	MS	W030001117	Ammonia (N) by IC
21095	7	21474	24442	MSD	W030001117	Ammonia (N) by IC
21095	4	21474	24442	SAMPLE	W030001117	Ammonia (N) by IC
21095	8	21474	24442	SAMPLE	W030001118	Ammonia (N) by IC
21095	9	21474	24442	SAMPLE	W030001119	Ammonia (N) by IC
21095	10	21474	24442	SAMPLE	W030001120	Ammonia (N) by IC
21095	11	21474	24442	SAMPLE	W030001121	Ammonia (N) by IC
21095	12	21474	24442	SAMPLE	W030001123	Ammonia (N) by IC
			24444	BLANK		SW-846 8270B Semi-Vols
			24444	LCS		SW-846 8270B Semi-Vols
			24444	MS	W030001117	SW-846 8270B Semi-Vols
			24444	MSD	W030001117	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001117	SW-846 8270B Semi-Vols
			24444	SPK-RPD	W030001117	SW-846 8270B Semi-Vols
			24444	SURR	W030001117	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001118	SW-846 8270B Semi-Vols
			24444	SURR	W030001118	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001119	SW-846 8270B Semi-Vols
			24444	SURR	W030001119	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001120	SW-846 8270B Semi-Vols
			24444	SURR	W030001120	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001121	SW-846 8270B Semi-Vols
			24444	SURR	W030001121	SW-846 8270B Semi-Vols
			24444	SAMPLE	W030001123	SW-846 8270B Semi-Vols
			24444	SURR	W030001123	SW-846 8270B Semi-Vols
21035	1	21417	24488	BLANK		Gamma Energy Analysis-grd H2O
21035	2	21417	24488	BLANK		Gamma Energy Analysis-grd H2O
21035	3	21417	24488	LCS		Gamma Energy Analysis-grd H2O
21035	4	21417	24488	DUP	W030001117	Gamma Energy Analysis-grd H2O
21035	5	21417	24488	SAMPLE	W030001117	Gamma Energy Analysis-grd H2O
21035	6	21417	24488	SAMPLE	W030001119	Gamma Energy Analysis-grd H2O
21035	7	21417	24488	SAMPLE	W030001120	Gamma Energy Analysis-grd H2O
21035	8	21417	24488	SAMPLE	W030001121	Gamma Energy Analysis-grd H2O
21035	9	21417	24488	SAMPLE	W030001123	Gamma Energy Analysis-grd H2O
21147	1	21527	24492	BLANK		Alcohols, Glycols - 8015
21147	2	21527	24492	LCS		Alcohols, Glycols - 8015

21147	3	21527	24492	SAMPLE	W030001117	Alcohols, Glycols - 8015
21147	4	21527	24492	SAMPLE	W030001118	Alcohols, Glycols - 8015
21147	5	21527	24492	SAMPLE	W030001119	Alcohols, Glycols - 8015
21147	7	21527	24492	MS	W030001120	Alcohols, Glycols - 8015
21147	8	21527	24492	MSD	W030001120	Alcohols, Glycols - 8015
21147	6	21527	24492	SAMPLE	W030001120	Alcohols, Glycols - 8015
21147	8	21527	24492	SPK-RPD	W030001120	Alcohols, Glycols - 8015
21147	9	21527	24492	SAMPLE	W030001121	Alcohols, Glycols - 8015
21147	10	21527	24492	SAMPLE	W030001123	Alcohols, Glycols - 8015
21167	1	21540	24496	BLANK		NWTPH-GX TPH Gasoline Range
21167	2	21540	24496	LCS		NWTPH-GX TPH Gasoline Range
21167	3	21540	24496	SAMPLE	W030001117	NWTPH-GX TPH Gasoline Range
21167	4	21540	24496	SAMPLE	W030001119	NWTPH-GX TPH Gasoline Range
21167	6	21540	24496	DUP	W030001120	NWTPH-GX TPH Gasoline Range
21167	7	21540	24496	MS	W030001120	NWTPH-GX TPH Gasoline Range
21167	8	21540	24496	MSD	W030001120	NWTPH-GX TPH Gasoline Range
21167	5	21540	24496	SAMPLE	W030001120	NWTPH-GX TPH Gasoline Range
21167	8	21540	24496	SPK-RPD	W030001120	NWTPH-GX TPH Gasoline Range
21167	9	21540	24496	SAMPLE	W030001121	NWTPH-GX TPH Gasoline Range
21167	10	21540	24496	SAMPLE	W030001123	NWTPH-GX TPH Gasoline Range
			24504	BLANK		VOA Ground Water Protection
			24504	LCS		VOA Ground Water Protection
			24504	SAMPLE	W030001117	VOA Ground Water Protection
			24504	SURR	W030001117	VOA Ground Water Protection
			24504	SAMPLE	W030001119	VOA Ground Water Protection
			24504	SURR	W030001119	VOA Ground Water Protection
			24504	MS	W030001120	VOA Ground Water Protection
			24504	MSD	W030001120	VOA Ground Water Protection
			24504	SAMPLE	W030001120	VOA Ground Water Protection
			24504	SPK-RPD	W030001120	VOA Ground Water Protection
			24504	SURR	W030001120	VOA Ground Water Protection
			24504	SAMPLE	W030001121	VOA Ground Water Protection
			24504	SURR	W030001121	VOA Ground Water Protection
			24504	SAMPLE	W030001123	VOA Ground Water Protection
			24504	SURR	W030001123	VOA Ground Water Protection
21178	1	21551	24513	BLANK		ICP-2008 MS All possible metal
21178	20	21551	24513	BLANK		ICP-2008 MS All possible metal
21178	2	21551	24513	LCS		ICP-2008 MS All possible metal
21178	21	21551	24513	LCS		ICP-2008 MS All possible metal
21178	4	21551	24513	MS	W030001117	ICP-2008 MS All possible metal
21178	5	21551	24513	MSD	W030001117	ICP-2008 MS All possible metal
21178	3	21551	24513	SAMPLE	W030001117	ICP-2008 MS All possible metal
21178	6	21551	24513	SAMPLE	W030001118	ICP-2008 MS All possible metal
21178	7	21551	24513	SAMPLE	W030001119	ICP-2008 MS All possible metal
21178	8	21551	24513	SAMPLE	W030001120	ICP-2008 MS All possible metal
21178	9	21551	24513	SAMPLE	W030001121	ICP-2008 MS All possible metal
21178	10	21551	24513	SAMPLE	W030001123	ICP-2008 MS All possible metal
21178	23	21551	24513	MS	W030001142	ICP-2008 MS All possible metal
21178	24	21551	24513	MSD	W030001142	ICP-2008 MS All possible metal
21123	1	21502	24515	BLANK		Plutonium Isotopics by AEA
21123	2	21502	24515	LCS		Plutonium Isotopics by AEA
21123	3	21502	24515	DUP	W030001117	Plutonium Isotopics by AEA
21123	4	21502	24515	SAMPLE	W030001117	Plutonium Isotopics by AEA
21123	5	21502	24515	SAMPLE	W030001118	Plutonium Isotopics by AEA
21123	6	21502	24515	SAMPLE	W030001119	Plutonium Isotopics by AEA
21123	7	21502	24515	SAMPLE	W030001120	Plutonium Isotopics by AEA

21123	8	21502	24515	SAMPLE	W030001121	Plutonium Isotopics by AEA
21123	9	21502	24515	SAMPLE	W030001123	Plutonium Isotopics by AEA
21124	1	21503	24516	BLANK		Americium by AEA
21124	2	21503	24516	LCS		Americium by AEA
21124	3	21503	24516	DUP	W030001117	Americium by AEA
21124	4	21503	24516	SAMPLE	W030001117	Americium by AEA
21124	5	21503	24516	SAMPLE	W030001118	Americium by AEA
21124	6	21503	24516	SAMPLE	W030001119	Americium by AEA
21124	7	21503	24516	SAMPLE	W030001120	Americium by AEA
21124	8	21503	24516	SAMPLE	W030001121	Americium by AEA
21122	1	21501	24520	BLANK		Uranium Isotopics by AEA
21122	2	21501	24520	LCS		Uranium Isotopics by AEA
21122	3	21501	24520	DUP	W030001117	Uranium Isotopics by AEA
21122	4	21501	24520	SAMPLE	W030001117	Uranium Isotopics by AEA
21122	5	21501	24520	SAMPLE	W030001118	Uranium Isotopics by AEA
21122	6	21501	24520	SAMPLE	W030001119	Uranium Isotopics by AEA
21122	7	21501	24520	SAMPLE	W030001120	Uranium Isotopics by AEA
21122	8	21501	24520	SAMPLE	W030001121	Uranium Isotopics by AEA
21122	9	21501	24520	SAMPLE	W030001123	Uranium Isotopics by AEA
21138	1	21517	24522	BLANK		& Neptunium by AEA
21138	2	21517	24522	LCS		& Neptunium by AEA
21138	3	21517	24522	DUP	W030001117	& Neptunium by AEA
21138	4	21517	24522	SAMPLE	W030001117	& Neptunium by AEA
21138	5	21517	24522	SAMPLE	W030001118	& Neptunium by AEA
21138	6	21517	24522	SAMPLE	W030001119	& Neptunium by AEA
21138	7	21517	24522	SAMPLE	W030001120	& Neptunium by AEA
21138	8		24522	SAMPLE	W030001121	& Neptunium by AEA
21138	9		24522	SAMPLE	W030001123	& Neptunium by AEA
21140	1	21519	24672	BLANK		ICP Metals Analysis, Grd H20 P
21140	2	21519	24672	LCS		ICP Metals Analysis, Grd H20 P
21140	4	21519	24672	MS	W030001117	ICP Metals Analysis, Grd H20 P
21140	5	21519	24672	MSD	W030001117	ICP Metals Analysis, Grd H20 P
21140	3	21519	24672	SAMPLE	W030001117	ICP Metals Analysis, Grd H20 P
21140	0	21519	24672	SPK-RPD	W030001117	ICP Metals Analysis, Grd H20 P
21140	6	21519	24672	SAMPLE	W030001118	ICP Metals Analysis, Grd H20 P
21140	7	21519	24672	SAMPLE	W030001119	ICP Metals Analysis, Grd H20 P
21140	8	21519	24672	SAMPLE	W030001120	ICP Metals Analysis, Grd H20 P
21140	9	21519	24672	SAMPLE	W030001121	ICP Metals Analysis, Grd H20 P
21339	1	21712	24723	BLANK		Americium by AEA
21339	2	21712	24723	LCS		Americium by AEA
21339	3	21712	24723	DUP	W030001123	Americium by AEA
21339	4	21712	24723	SAMPLE	W030001123	Americium by AEA

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: PCBs complete list

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Aroclor-1254	11097-69-1	180.88	86.200	% Recov	12/12/03	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	816.88	77.800	% Recov	12/12/03	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	844.81	80.500	% Recov	12/12/03	50.000	150.000	
MSD	Aroclor-1254	11097-69-1	225.68	110.000	% Recov	12/12/03	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	848.84	82.500	% Recov	12/12/03	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	899.32	87.400	% Recov	12/12/03	50.000	150.000	
SPK-RPD	Aroclor-1254	11097-69-1	110.000	24.261	RPD	12/12/03	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	82.500	5.864	RPD	12/12/03	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	87.400	8.219	RPD	12/12/03	0.000	20.000	
SURR	Decachlorobiphenyl	2051-24-3	1028.8	102.000	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1005.8	99.700	% Recov	12/12/03	50.000	150.000	
Lab ID: W030001118									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	887.49	90.800	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	908.09	92.900	% Recov	12/12/03	50.000	150.000	
Lab ID: W030001119									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	937.12	93.600	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	924.47	92.300	% Recov	12/12/03	50.000	150.000	
Lab ID: W030001120									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	946.38	91.200	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	952.95	91.800	% Recov	12/12/03	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

2 - 52A

SDG Number: WSCF20031619
Matrix: SOLID
Test: PCBs complete list

SAF Number: F03-025
Sample Date: 12/07/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001121									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1068.2	105.000	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1048.9	103.000	% Recov	12/12/03	50.000	150.000	
Lab ID: W030001123									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	Decachlorobiphenyl	2051-24-3	1103.7	107.000	% Recov	12/12/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	1051.0	102.000	% Recov	12/12/03	50.000	150.000	
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	12/12/03			U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1260	11096-82-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1262	37324-23-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1268	11100-14-4	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Decachlorobiphenyl	2051-24-3	930.32	93.000	% Recov	12/12/03	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	844.96	84.500	% Recov	12/12/03	50.000	150.000	
LCS	Aroclor-1254	11097-69-1	914.91	91.500	% Recov	12/12/03	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	987.71	98.800	% Recov	12/12/03	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	979.76	98.000	% Recov	12/12/03	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: PCBs complete list

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 50	n/a	UGKG	12/12/03			U
BLANK	Aroclor-1221	11104-28-2	< 100	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1232	11141-16-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1242	53469-21-9	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1248	12672-29-6	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1254	11097-69-1	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1260	11096-82-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1262	37324-23-5	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Aroclor-1268	11100-14-4	< 50	n/a	ug/Kg	12/12/03			U
BLANK	Decachlorobiphenyl	2051-24-3	930.32	93.000	% Recov	12/12/03	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	844.96	84.500	% Recov	12/12/03	50.000	150.000	
LCS	Aroclor-1254	11097-69-1	914.91	91.500	% Recov	12/12/03	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	987.71	98.800	% Recov	12/12/03	50.000	150.000	
LCS	Tetrachloro-m-xylene	877-09-8	979.76	98.000	% Recov	12/12/03	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte		CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117										
BATCH QC ASSOCIATED WITH SAMPLE										
SURR	ortho-Terphenyl	Surr	84-15-1	21161	80.600	% Recov	12/12/03	70.000	130.000	
Lab ID: W030001118										
BATCH QC ASSOCIATED WITH SAMPLE										
SURR	ortho-Terphenyl	Surr	84-15-1	47937	93.300	% Recov	12/12/03	70.000	130.000	
Lab ID: W030001119										
BATCH QC ASSOCIATED WITH SAMPLE										
MS	Kerosene		TPHKEROSENE	89868	70.400	%Recove	12/12/03	70.000	130.000	
MS	ortho-Terphenyl	Surr	84-15-1	22459	88.000	% Recov	12/12/03	70.000	130.000	
MSD	Kerosene		TPHKEROSENE	92329	72.100	%Recove	12/12/03	70.000	130.000	
MSD	ortho-Terphenyl	Surr	84-15-1	24069	94.000	% Recov	12/12/03	70.000	130.000	
SPK-RPD	ortho-Terphenyl	Surr	84-15-1	94.000	6.593	RPD	12/12/03	0.000	20.000	
SURR	ortho-Terphenyl	Surr	84-15-1	22948	89.500	% Recov	12/12/03	70.000	130.000	
Lab ID: W030001120										
BATCH QC ASSOCIATED WITH SAMPLE										
SURR	ortho-Terphenyl	Surr	84-15-1	19785	74.800	% Recov	12/12/03	70.000	130.000	
Lab ID: W030001121										
BATCH QC ASSOCIATED WITH SAMPLE										
SURR	ortho-Terphenyl	Surr	84-15-1	20674	79.500	% Recov	12/12/03	70.000	130.000	
Lab ID: W030001123										
BATCH QC ASSOCIATED WITH SAMPLE										
SURR	ortho-Terphenyl	Surr	84-15-1	20354	75.800	% Recov	12/12/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Kerosene	TPHKEROSENE	< 3800	n/a	ug/Kg	12/12/03			U
BLANK	ortho-Terphenyl Surr	84-15-1	20045	80.200	% Recov	12/12/03	70.000	130.000	
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3800	n/a	ug/Kg	12/12/03			U
LCS	ortho-Terphenyl Surr	84-15-1	25162	101.000	% Recov	12/12/03	70.000	130.000	
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	99259	79.400	% Recov	12/12/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: Anions by Ion Chromatography

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

Lab ID: W030001117

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Chloride	16887-00-6	<2.60e0	n/a	RPD	12/11/03	0.000	20.000	U
DUP	Fluoride	16984-48-8	<1.15e0	n/a	RPD	12/11/03	0.000	20.000	U
DUP	Nitrogen in Nitrite	NO2-N	<9.50e-1	n/a	RPD	12/11/03	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	1.29e+00	42.481	RPD	12/11/03	0.000	20.000	
DUP	Phosphate	14265-44-2	<2.70e0	n/a	RPD	12/11/03	0.000	20.000	U
DUP	Sulfate	14808-79-8	<5.00e0	n/a	RPD	12/11/03	0.000	20.000	U
MS	Chloride	16887-00-6	8.87e-01	89.596	% Recov	12/11/03	75.000	125.000	
MS	Fluoride	16984-48-8	4.31e-01	88.139	% Recov	12/11/03	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	4.66e-01	92.460	% Recov	12/11/03	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.30e-01	96.413	% Recov	12/11/03	75.000	125.000	
MS	Phosphate	14265-44-2	8.64e-01	90.094	% Recov	12/11/03	75.000	125.000	
MS	Sulfate	14808-79-8	2.03e+00	103.046	% Recov	12/11/03	75.000	125.000	
MSD	Chloride	16887-00-6	9.82e-01	99.192	% Recov	12/11/03	75.000	125.000	
MSD	Fluoride	16984-48-8	4.63e-01	94.683	% Recov	12/11/03	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	5.31e-01	105.357	% Recov	12/11/03	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.45e-01	99.776	% Recov	12/11/03	75.000	125.000	
MSD	Phosphate	14265-44-2	8.55e-01	89.155	% Recov	12/11/03	75.000	125.000	
MSD	Sulfate	14808-79-8	2.00e+00	101.523	% Recov	12/11/03	75.000	125.000	

BATCH QC

BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	12/11/03	0.000	300.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: Anions by Ion Chromatography

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Phosphate	14265-44-2	<5.40e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Phosphate	14265-44-2	<5.40e-2	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	12/11/03	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	12/11/03	0.000	300.000	U
LCS	Chloride	16887-00-6	2.08e+02	104.000	% Recov	12/11/03	80.000	120.000	
LCS	Fluoride	16984-48-8	8.91e+01	90.274	% Recov	12/11/03	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	1.06e+02	106.000	% Recov	12/11/03	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	8.78e+01	97.447	% Recov	12/11/03	80.000	120.000	
LCS	Phosphate	14265-44-2	1.81e+02	93.395	% Recov	12/11/03	80.000	120.000	
LCS	Sulfate	14808-79-8	3.96e+02	99.248	% Recov	12/11/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: Ammonia (N) by IC

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Ammonia (N) by IC	7664-41-7	2.78e-01	22.846	RPD	12/17/03	0.000	20.000	
MS	Ammonia (N) by IC	7664-41-7	1.49e-01	90.854	% Recov	12/17/03	75.000	125.000	
MSD	Ammonia (N) by IC	7664-41-7	1.72e-01	104.878	% Recov	12/17/03	75.000	125.000	
BATCH QC									
BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	12/17/03	0.000	30.000	U
BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	12/17/03	0.000	30.000	U
LCS	Ammonia (N) by IC	7664-41-7	7.88e+01	95.631	% Recov	12/17/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

Lab ID: W030001117
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,2,4-Trichlorobenzene	120-82-1	3006.4	90.800	% Recov	12/15/03	46.000	107.000	
MS	1,4-Dichlorobenzene	106-46-7	2990.7	90.300	% Recov	12/15/03	30.000	96.000	
MS	2,4-Dinitrotoluene	121-14-2	2818.1	85.100	% Recov	12/15/03	59.000	106.000	
MS	2-Fluorophenol	367-12-4	2949.2	89.100	%Recove	12/15/03	42.000	105.000	
MS	Acenaphthene	83-32-9	3269.2	98.700	% Recov	12/15/03	61.000	116.000	
MS	4-Chloro-3-methylphenol	59-50-7	5247.8	106.000	% Recov	12/15/03	61.000	106.000	
MS	2-Chlorophenol	95-57-8	4560.0	91.800	% Recov	12/15/03	66.000	106.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	2873.5	86.800	% Recov	12/15/03	71.000	114.000	
MS	2-Fluorobiphenyl	321-60-8	2979.7	90.000	%Recove	12/15/03	56.000	122.000	
MS	Phenol	108-95-2	4933.1	99.300	% Recov	12/15/03	42.000	111.000	
MS	Nitrobenzene-d5	4165-60-0	2898.6	87.500	%Recove	12/15/03	64.000	111.000	
MS	4-Nitrophenol	100-02-7	4500.2	90.600	% Recov	12/15/03	32.000	118.000	
MS	Pentachlorophenol	87-86-5	4245.2	85.500	% Recov	12/15/03	62.000	114.000	
MS	Phenol-d5	4165-62-2	3515.2	106.000	%Recove	12/15/03	54.000	120.000	
MS	Pyrene	129-00-0	3115.1	94.100	% Recov	12/15/03	66.000	118.000	
MS	2,4,6-Tribromophenol	118-79-6	3503.1	106.000	%Recove	12/15/03	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	3271.2	98.800	%Recove	12/15/03	35.000	150.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	3070.4	92.600	% Recov	12/15/03	46.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	2719.6	82.000	% Recov	12/15/03	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	2857.7	86.200	% Recov	12/15/03	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	2866.8	86.500	%Recove	12/15/03	42.000	105.000	
MSD	Acenaphthene	83-32-9	3206.0	96.700	% Recov	12/15/03	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	5278.8	106.000	% Recov	12/15/03	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	4105.6	82.600	% Recov	12/15/03	66.000	106.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	2708.3	81.700	% Recov	12/15/03	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	3042.3	91.800	%Recove	12/15/03	56.000	122.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Phenol	108-95-2	4842.7	97.400	% Recov	12/15/03	42.000	111.000	
MSD	Nitrobenzene-d5	4165-60-0	2954.4	89.100	%Recove	12/15/03	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	4379.7	88.100	% Recov	12/15/03	32.000	118.000	
MSD	Pentachlorophenol	87-86-5	5092.0	102.000	% Recov	12/15/03	62.000	114.000	
MSD	Phenol-d5	4165-62-2	3225.7	97.300	%Recove	12/15/03	54.000	120.000	
MSD	Pyrene	129-00-0	3139.6	94.700	% Recov	12/15/03	66.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	3491.4	105.000	%Recove	12/15/03	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	3204.6	96.700	%Recove	12/15/03	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	92.600	1.963	RPD	12/15/03	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	82.000	9.634	RPD	12/15/03	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	86.200	1.284	RPD	12/15/03	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	86.500	2.961	RPD	12/15/03	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	96.700	2.047	RPD	12/15/03	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	106.000	0.000	RPD	12/15/03	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	82.600	10.550	RPD	12/15/03	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	81.700	6.053	RPD	12/15/03	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	91.800	1.980	RPD	12/15/03	0.000	20.000	
SPK-RPD	Phenol	108-95-2	97.400	1.932	RPD	12/15/03	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	89.100	1.812	RPD	12/15/03	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	88.100	2.798	RPD	12/15/03	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-86-5	102.000	17.600	RPD	12/15/03	0.000	20.000	
SPK-RPD	Phenol-d5	4165-62-2	97.300	8.559	RPD	12/15/03	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	94.700	0.636	RPD	12/15/03	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	105.000	0.948	RPD	12/15/03	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	96.700	2.148	RPD	12/15/03	0.000	20.000	
SURR	2-Fluorophenol	367-12-4	2798.7	84.600	%Recove	12/15/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3541.1	107.000	%Recove	12/15/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	2834.5	85.700	%Recove	12/15/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3492.5	106.000	%Recove	12/15/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3260.7	98.600	%Recove	12/15/03	24.000	122.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3303.6	99.900	%Recove	12/15/03	35.000	150.000	

Lab ID: W030001118
BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	2764.3	81.700	%Recove	12/22/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3329.4	98.400	%Recove	12/22/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3308.1	97.700	%Recove	12/22/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3364.7	99.400	%Recove	12/22/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3037.9	89.700	%Recove	12/22/03	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3433.5	101.000	%Recove	12/22/03	35.000	150.000	

Lab ID: W030001119
BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	2671.1	80.600	%Recove	12/15/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3371.6	102.000	%Recove	12/15/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	2814.0	84.900	%Recove	12/15/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3140.0	94.700	%Recove	12/15/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3118.5	94.100	%Recove	12/15/03	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3049.4	92.000	%Recove	12/15/03	35.000	150.000	

Lab ID: W030001120
BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol	367-12-4	2988.8	90.000	%Recove	12/15/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3647.8	110.000	%Recove	12/15/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	2999.4	90.400	%Recove	12/15/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3596.1	108.000	%Recove	12/15/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3104.3	93.500	%Recove	12/15/03	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3558.0	107.000	%Recove	12/15/03	35.000	150.000	

Lab ID: W030001121

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	2780.7	84.100	%Recove	12/15/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3311.9	100.000	%Recove	12/15/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	2883.9	87.200	%Recove	12/15/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3485.4	105.000	%Recove	12/15/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3082.2	93.200	%Recove	12/15/03	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3132.6	94.800	%Recove	12/15/03	35.000	150.000	
Lab ID: W030001123									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	2-Fluorophenol	367-12-4	2838.9	85.500	%Recove	12/15/03	42.000	105.000	
SURR	2-Fluorobiphenyl	321-60-8	3450.9	104.000	%Recove	12/15/03	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	3213.0	96.700	%Recove	12/15/03	64.000	111.000	
SURR	Phenol-d5	4165-62-2	3538.4	107.000	%Recove	12/15/03	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	3294.4	99.200	%Recove	12/15/03	24.000	122.000	
SURR	Terphenyl-d14 (7Cl)	98904-43-9	3455.6	104.000	%Recove	12/15/03	35.000	150.000	
BATCH QC									
BLANK	1,2-Dichlorobenzene	95-50-1	< 360	n/a	ug/Kg	12/15/03			U
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 290	n/a	ug/Kg	12/15/03			U
BLANK	1,3-Dichlorobenzene	541-73-1	< 320	n/a	ug/Kg	12/15/03			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 310	n/a	ug/Kg	12/15/03			U
BLANK	2,4-Dichlorophenol	120-83-2	< 80	n/a	ug/Kg	12/15/03			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2,4,5-Trichlorophenol	95-95-4	< 73	n/a	ug/Kg	12/15/03			U
BLANK	2,4,6-Trichlorophenol	88-06-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2,4-Dimethylphenol	105-67-9	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2,6-Dinitrotoluene	606-20-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Chloronaphthalene	91-58-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Fluorophenol	367-12-4	2936.3	88.100	%Recove	12/15/03	42.000	105.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	2-Methylnaphthalene	91-57-6	< 180	n/a	ug/Kg	12/15/03			U
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Nitroaniline	88-74-4	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Nitrophenol	88-75-5	< 170	n/a	ug/Kg	12/15/03			U
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 110	n/a	ug/Kg	12/15/03	0.000	300.000	U
BLANK	3-Nitroaniline	99-09-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 670	n/a	ug/Kg	12/15/03			U
BLANK	4-Bromophenylphenyl ether	101-55-3	< 67	n/a	ug/Kg	12/15/03			U
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Acenaphthene	83-32-9	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Acenaphthylene	208-96-8	< 80	n/a	ug/Kg	12/15/03			U
BLANK	Anthracene	120-12-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 250	n/a	ug/Kg	12/15/03			U
BLANK	Benzo(a)anthracene	56-55-3	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Benzo(b)fluoranthene	205-99-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Benzo(ghi)perylene	191-24-2	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Benzo(a)pyrene	50-32-8	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 110	n/a	ug/Kg	12/15/03			U
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 560	n/a	ug/Kg	12/15/03			U
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 250	n/a	ug/Kg	12/15/03	0.000	10.000	U
BLANK	Benzo(k)fluoranthene	207-08-9	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Butylbenzylphthalate	85-68-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Carbazole	86-74-8	< 80	n/a	ug/Kg	12/15/03			U
BLANK	4-Chloroaniline	106-47-8	< 93	n/a	ug/Kg	12/15/03			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Chlorophenol	95-57-8	< 150	n/a	ug/Kg	12/15/03			U
BLANK	Chrysene	218-01-9	< 67	n/a	ug/Kg	12/15/03			U
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 80	n/a	ug/Kg	12/15/03			U
BLANK	Dibenz[a,h]anthracene	53-70-3	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Dibenzofuran	132-64-9	< 67	n/a	ug/Kg	12/15/03			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Di-n-butylphthalate	84-74-2	< 87	n/a	ug/Kg	12/15/03			U
BLANK	Diethylphthalate	84-66-2	290	290.000	ug/Kg	12/15/03			
BLANK	Dimethyl phthalate	131-11-3	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2,4-Dinitrophenol	51-28-5	< 670	n/a	ug/Kg	12/15/03			U
BLANK	Di-n-octylphthalate	117-84-0	< 67	n/a	ug/Kg	12/15/03			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2-Fluorobiphenyl	321-60-8	3421.6	103.000	%Recove	12/15/03	56.000	122.000	
BLANK	Fluorene	86-73-7	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Fluoranthene	206-44-0	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Hexachlorobenzene	118-74-1	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Hexachlorobutadiene	87-68-3	< 370	n/a	ug/Kg	12/15/03			U
BLANK	Hexachlorocyclopentadiene	77-47-4	< 310	n/a	ug/Kg	12/15/03			U
BLANK	Hexachloroethane	67-72-1	< 470	n/a	ug/Kg	12/15/03			U
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Isophorone	78-59-1	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Phenol	108-95-2	< 100	n/a	ug/Kg	12/15/03			U
BLANK	Naphthalene	91-20-3	< 290	n/a	ug/Kg	12/15/03			U
BLANK	Nitrobenzene-d5	4165-60-0	2882.1	86.500	%Recove	12/15/03	64.000	111.000	
BLANK	Nitrobenzene	98-95-3	< 260	n/a	ug/Kg	12/15/03			U
BLANK	4-Nitrophenol	100-02-7	< 650	n/a	ug/Kg	12/15/03			U
BLANK	4-Nitroaniline	100-01-6	< 250	n/a	ug/Kg	12/15/03			U
BLANK	N-Nitrosodiphenylamine	86-30-6	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Pentachlorophenol	87-86-5	< 300	n/a	ug/Kg	12/15/03			U
BLANK	Phenanthrene	85-01-8	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Phenol-d5	4165-62-2	3152.6	94.600	%Recove	12/15/03	54.000	120.000	
BLANK	Pyrene	129-00-0	< 67	n/a	ug/Kg	12/15/03			U
BLANK	Tributyl phosphate	126-73-8	< 67	n/a	ug/Kg	12/15/03			U
BLANK	2,4,6-Tribromophenol	118-79-6	3005.8	90.200	%Recove	12/15/03	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	3317.2	99.500	%Recove	12/15/03	35.000	150.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	2969.6	89.100	% Recov	12/15/03	46.000	107.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	1,4-Dichlorobenzene	106-46-7	3032.0	91.000	% Recov	12/15/03	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	2905.3	87.200	% Recov	12/15/03	59.000	106.000	
LCS	2-Fluorophenol	367-12-4	3083.0	92.500	% Recov	12/15/03	50.000	110.000	
LCS	Acenaphthene	83-32-9	3015.7	90.500	% Recov	12/15/03	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	4783.2	95.700	% Recov	12/15/03	61.000	106.000	
LCS	2-Chlorophenol	95-57-8	4666.2	93.300	% Recov	12/15/03	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	2587.2	77.600	% Recov	12/15/03	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	3122.8	93.700	% Recov	12/15/03	58.000	109.000	
LCS	Phenol	108-95-2	4530.4	90.600	% Recov	12/15/03	67.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	2898.0	86.900	% Recov	12/15/03	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	4237.0	84.700	% Recov	12/15/03	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	4430.0	88.600	% Recov	12/15/03	62.000	114.000	
LCS	Phenol-d5	4165-62-2	2937.9	88.100	% Recov	12/15/03	59.000	116.000	
LCS	Pyrene	129-00-0	3090.0	92.700	% Recov	12/15/03	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	3532.2	106.000	% Recov	12/15/03	60.000	120.000	
LCS	Terphenyl-d14 (7CI)	98904-43-9	3284.5	98.500	% Recov	12/15/03	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

Lab ID: W030001117

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Cobalt-60	10198-40-0	U1.30e-04	n/a	RPD	12/22/03	0.000	20.000	
DUP	Cesium-134	13967-70-9	U5.82e-02	n/a	RPD	12/22/03	0.000	20.000	
DUP	Cesium-137	10045-97-3	1.84e-01	0.000	RPD	12/22/03	0.000	20.000	
DUP	Europium-152	14683-23-9	U7.19e-03	n/a	RPD	12/22/03	0.000	20.000	
DUP	Europium-154	15585-10-1	U-1.63e-2	n/a	RPD	12/22/03	0.000	20.000	
DUP	Europium-155	14391-16-3	U8.26e-03	n/a	RPD	12/22/03	0.000	20.000	
DUP	Antimony-125	14234-35-6	U5.42e-03	n/a	RPD	12/22/03	0.000	20.000	

BATCH QC

BLANK	Cobalt-60	10198-40-0	U7.31e-4	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Cobalt-60	10198-40-0	U1.04e-4	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Cesium-134	13967-70-9	U1.45e-4	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Cesium-134	13967-70-9	U5.90e-3	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-4.7e-3	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-8.1e-4	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Europium-152	14683-23-9	U1.20e-2	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Europium-152	14683-23-9	U6.51e-3	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Europium-154	15585-10-1	U2.11e-2	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Europium-154	15585-10-1	U-1.0e-2	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Europium-155	14391-16-3	U1.35e-2	n/a	pCi/g	12/26/03	-10000.000	1000.000	
BLANK	Europium-155	14391-16-3	U1.30e-2	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Antimony-125	14234-35-6	U1.15e-2	n/a	pCi/g	12/23/03	-10000.000	1000.000	
BLANK	Antimony-125	14234-35-6	U7.20e-3	n/a	pCi/g	12/26/03	-10000.000	1000.000	
LCS	Cobalt-60	10198-40-0	3.89e+03	92.840	% Recov	12/23/03	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.62e+03	101.117	% Recov	12/23/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: Alcohols, Glycols - 8015

SAF Number: F03-025
Sample Date: 12/07/03
Receive Date:12/08/03

Lab ID: W030001120

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	2-Bromoethanol	540-51-2	16000	80.000	%Recove	12/17/03	70.000	125.000	
MS	Ethylene glycol	107-21-1	12000	120.000	%Recove	12/17/03	75.000	125.000	
MSD	2-Bromoethanol	540-51-2	20000	100.000	%Recove	12/17/03	70.000	125.000	
MSD	Ethylene glycol	107-21-1	12000	120.000	%Recove	12/17/03	75.000	125.000	
SPK-RPD	2-Bromoethanol	540-51-2	100.000	22.222	RPD	12/17/03	0.000	20.000	
SPK-RPD	Ethylene glycol	107-21-1	120.000	0.000	RPD	12/17/03	0.000	20.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	2-Bromoethanol	540-51-2	18000	0.900	ug/Kg	12/17/03	0.000	10.000	
BLANK	Ethylene glycol	107-21-1	<5000	n/a	ug/Kg	12/17/03	0.000	5.000	U
LCS	2-Bromoethanol	540-51-2	17000	85.000	%Recove	12/17/03	70.000	130.000	
LCS	Ethylene glycol	107-21-1	17000	85.000	%Recove	12/17/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F03-025
Sample Date: 12/07/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001120									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	RPD	12/15/03	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3400	98.551	% Recov	12/15/03	50.000	150.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3700	107.246	% Recov	12/15/03	50.000	150.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	107.246	8.450	RPD	12/15/03	0.000	20.000	
BATCH QC									
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	12/15/03	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3650	105.797	% Recov	12/15/03	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	230.00	92.000	% Recov	12/16/03	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	240.00	96.000	% Recov	12/16/03	80.000	134.000	
SURR	Toluene-d8	2037-26-5	250.00	100.000	% Recov	12/16/03	80.000	126.000	
Lab ID: W030001119									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	450.00	90.000	% Recov	12/16/03	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	480.00	96.000	% Recov	12/16/03	80.000	134.000	
SURR	Toluene-d8	2037-26-5	500.00	100.000	% Recov	12/16/03	80.000	126.000	
Lab ID: W030001120									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	1,1-Dichloroethene	75-35-4	45.000	90.000	% Recov	12/16/03	63.000	117.000	
MS	Benzene	71-43-2	53.000	106.000	% Recov	12/16/03	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	98.000	98.000	% Recov	12/16/03	84.000	116.000	
MS	Chlorobenzene	108-90-7	53.000	106.000	% Recov	12/16/03	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	110.00	110.000	% Recov	12/16/03	82.000	136.000	
MS	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	89.000	119.000	
MS	Toluene	108-88-3	53.000	106.000	% Recov	12/16/03	76.000	120.000	
MS	Trichloroethene	79-01-6	51.000	102.000	% Recov	12/16/03	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	47.000	94.000	% Recov	12/16/03	63.000	117.000	
MSD	Benzene	71-43-2	52.000	104.000	% Recov	12/16/03	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	96.000	96.000	% Recov	12/16/03	84.000	116.000	
MSD	Chlorobenzene	108-90-7	53.000	106.000	% Recov	12/16/03	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	100.00	100.000	% Recov	12/16/03	82.000	136.000	
MSD	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	89.000	119.000	

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: VOA Ground Water Protection

SAF Number: F03-025
Sample Date: 12/07/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Toluene	108-88-3	54.000	108.000	% Recov	12/16/03	76.000	120.000	
MSD	Trichloroethene	79-01-6	50.000	100.000	% Recov	12/16/03	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	94.000	4.348	RPD	12/16/03	0.000	25.000	
SPK-RPD	Benzene	71-43-2	104.000	1.905	RPD	12/16/03	0.000	25.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	96.000	2.062	RPD	12/16/03	0.000	25.000	
SPK-RPD	Chlorobenzene	108-90-7	106.000	0.000	RPD	12/16/03	0.000	25.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	100.000	9.524	RPD	12/16/03	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	100.000	0.000	RPD	12/16/03	0.000	25.000	
SPK-RPD	Toluene	108-88-3	108.000	1.869	RPD	12/16/03	0.000	25.000	
SPK-RPD	Trichloroethene	79-01-6	100.000	1.980	RPD	12/16/03	0.000	25.000	
SURR	4-Bromofluorobenzene	460-00-4	98.000	98.000	% Recov	12/16/03	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	100.00	100.000	% Recov	12/16/03	80.000	134.000	
SURR	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	80.000	126.000	

Lab ID: W030001121
BATCH QC ASSOCIATED WITH SAMPLE

SURR	4-Bromofluorobenzene	460-00-4	98.000	98.000	% Recov	12/16/03	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	110.00	110.000	% Recov	12/16/03	80.000	134.000	
SURR	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	80.000	126.000	

Lab ID: W030001123
BATCH QC ASSOCIATED WITH SAMPLE

SURR	4-Bromofluorobenzene	460-00-4	220.00	88.000	% Recov	12/16/03	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	230.00	92.000	% Recov	12/16/03	80.000	134.000	
SURR	Toluene-d8	2037-26-5	250.00	100.000	% Recov	12/16/03	80.000	126.000	

BATCH QC

BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	12/16/03			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: VOA Ground Water Protection

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	12/16/03			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	4-Bromofluorobenzene	460-00-4	96.000	96.000	% Recov	12/16/03	71.000	125.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	100.00	100.000	% Recov	12/16/03	80.000	134.000	
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	80.000	126.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: VOA Ground Water Protection

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg	12/16/03			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	12/16/03			U
LCS	1,1-Dichloroethene	75-35-4	47.000	94.000	% Recov	12/16/03	70.000	130.000	
LCS	Benzene	71-43-2	54.000	108.000	% Recov	12/16/03	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	96.000	96.000	% Recov	12/16/03	71.000	125.000	
LCS	Chlorobenzene	108-90-7	53.000	106.000	% Recov	12/16/03	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	110.00	110.000	% Recov	12/16/03	80.000	134.000	
LCS	Toluene-d8	2037-26-5	100.00	100.000	% Recov	12/16/03	80.000	126.000	
LCS	Toluene	108-88-3	54.000	108.000	% Recov	12/16/03	70.000	130.000	
LCS	Trichloroethene	79-01-6	51.000	102.000	% Recov	12/16/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

Lab ID: W030001117
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	158.9	79.450	% Recov	01/08/04	70.000	130.000	
MS	Arsenic	7440-38-2	197.19	98.595	% Recov	01/08/04	70.000	130.000	
MS	Barium	7440-39-3	188.99	94.495	% Recov	01/08/04	70.000	130.000	
MS	Beryllium	7440-41-7	190.3	95.150	% Recov	01/08/04	70.000	130.000	
MS	Cadmium	7440-43-9	196.5	98.250	% Recov	01/08/04	70.000	130.000	
MS	Chromium	7440-47-3	184.27	92.135	% Recov	01/08/04	70.000	130.000	
MS	Copper	7440-50-8	185.3	92.650	% Recov	01/08/04	70.000	130.000	
MS	Mercury	7439-97-6	11.41	114.100	% Recov	01/08/04	70.000	130.000	
MS	Nickel	7440-02-0	193.04	96.520	% Recov	01/08/04	70.000	130.000	
MS	Lead	7439-92-1	195.3	97.650	% Recov	01/08/04	70.000	130.000	
MS	Antimony	7440-36-0	195.3	97.650	% Recov	01/08/04	70.000	130.000	
MS	Selenium	7782-49-2	200.8	100.400	% Recov	01/08/04	70.000	130.000	
MS	Uranium	7440-61-1	191.3	95.650	% Recov	01/08/04	70.000	130.000	
MSD	Silver	7440-22-4	158.7	79.350	% Recov	01/08/04	70.000	130.000	
MSD	Arsenic	7440-38-2	204.49	102.245	% Recov	01/08/04	70.000	130.000	
MSD	Barium	7440-39-3	192.79	96.395	% Recov	01/08/04	70.000	130.000	
MSD	Beryllium	7440-41-7	198.4	99.200	% Recov	01/08/04	70.000	130.000	
MSD	Cadmium	7440-43-9	201	100.500	% Recov	01/08/04	70.000	130.000	
MSD	Chromium	7440-47-3	190.97	95.485	% Recov	01/08/04	70.000	130.000	
MSD	Copper	7440-50-8	192.1	96.050	% Recov	01/08/04	70.000	130.000	
MSD	Mercury	7439-97-6	11.7	117.000	% Recov	01/08/04	70.000	130.000	
MSD	Nickel	7440-02-0	195.44	97.720	% Recov	01/08/04	70.000	130.000	
MSD	Lead	7439-92-1	198.9	99.450	% Recov	01/08/04	70.000	130.000	
MSD	Antimony	7440-36-0	187.8	93.900	% Recov	01/08/04	70.000	130.000	
MSD	Selenium	7782-49-2	209.6	104.800	% Recov	01/08/04	70.000	130.000	
MSD	Uranium	7440-61-1	194.6	97.300	% Recov	01/08/04	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: ICP-2008 MS All possible metal

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

Lab ID: W030001142
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	176.1	88.050	% Recov	01/08/04	70.000	130.000	
MS	Arsenic	7440-38-2	190.99	95.495	% Recov	01/08/04	70.000	130.000	
MS	Barium	7440-39-3	172.67	86.335	% Recov	01/08/04	70.000	130.000	
MS	Beryllium	7440-41-7	203.7	101.850	% Recov	01/08/04	70.000	130.000	
MS	Cadmium	7440-43-9	200.7	100.350	% Recov	01/08/04	70.000	130.000	
MS	Chromium	7440-47-3	187.14	93.570	% Recov	01/08/04	70.000	130.000	
MS	Copper	7440-50-8	165.6	82.800	% Recov	01/08/04	70.000	130.000	
MS	Mercury	7439-97-6	11.32	113.200	% Recov	01/08/04	70.000	130.000	
MS	Nickel	7440-02-0	187.32	93.660	% Recov	01/08/04	70.000	130.000	
MS	Lead	7439-92-1	194	97.000	% Recov	01/08/04	70.000	130.000	
MS	Antimony	7440-36-0	188.4	94.200	% Recov	01/08/04	70.000	130.000	
MS	Selenium	7782-49-2	197.97	98.985	% Recov	01/08/04	70.000	130.000	
MSD	Silver	7440-22-4	185.7	92.850	% Recov	01/08/04	70.000	130.000	
MSD	Arsenic	7440-38-2	193.99	96.995	% Recov	01/08/04	70.000	130.000	
MSD	Barium	7440-39-3	172.77	86.385	% Recov	01/08/04	70.000	130.000	
MSD	Beryllium	7440-41-7	201.6	100.800	% Recov	01/08/04	70.000	130.000	
MSD	Cadmium	7440-43-9	198.1	99.050	% Recov	01/08/04	70.000	130.000	
MSD	Chromium	7440-47-3	182.64	91.320	% Recov	01/08/04	70.000	130.000	
MSD	Copper	7440-50-8	166.8	83.400	% Recov	01/08/04	70.000	130.000	
MSD	Mercury	7439-97-6	11.43	114.300	% Recov	01/08/04	70.000	130.000	
MSD	Nickel	7440-02-0	191.02	95.510	% Recov	01/08/04	70.000	130.000	
MSD	Lead	7439-92-1	197.1	98.550	% Recov	01/08/04	70.000	130.000	
MSD	Antimony	7440-36-0	183.1	91.550	% Recov	01/08/04	70.000	130.000	
MSD	Selenium	7782-49-2	207.77	103.885	% Recov	01/08/04	70.000	130.000	

BATCH QC

BLANK	Silver	7440-22-4	<0.2	n/a	ug/L	01/08/04	-0.440	0.440	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: ICP-2008 MS All possible metal

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit		RQ
BLANK	Silver	7440-22-4	<0.2	n/a	ug/L	01/08/04	-0.440	0.440		U
BLANK	Arsenic	7440-38-2	0.62	0.620	ug/L	01/08/04	-0.660	0.660		
BLANK	Arsenic	7440-38-2	0.73	0.730	ug/L	01/08/04	-0.660	0.660	*	
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L	01/08/04	-0.440	0.440		U
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L	01/08/04	-0.440	0.440		U
BLANK	Beryllium	7440-41-7	<0.3	n/a	ug/L	01/08/04	-0.660	0.660		U
BLANK	Beryllium	7440-41-7	<0.3	n/a	ug/L	01/08/04	-0.660	0.660		U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	01/08/04	-0.220	0.220		U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	01/08/04	-0.220	0.220		U
BLANK	Chromium	7440-47-3	<0.3	n/a	ug/L	01/08/04	-0.660	0.660		U
BLANK	Chromium	7440-47-3	<0.3	n/a	ug/L	01/08/04	-0.660	0.660		U
BLANK	Copper	7440-50-8	<0.5	n/a	ug/L	01/08/04	-1.100	1.100		U
BLANK	Copper	7440-50-8	<0.5	n/a	ug/L	01/08/04	-1.100	1.100		U
BLANK	Mercury	7439-97-6	0.15	0.150	ug/L	01/08/04	-0.220	0.220		
BLANK	Mercury	7439-97-6	<0.1	n/a	ug/L	01/08/04	-0.220	0.220		U
BLANK	Nickel	7440-02-0	<0.5	n/a	ug/L	01/08/04	-1.100	1.100		U
BLANK	Nickel	7440-02-0	<0.5	n/a	ug/L	01/08/04	-1.100	1.100		U
BLANK	Lead	7439-92-1	<1.2	n/a	ug/L	01/08/04	-2.640	2.640		U
BLANK	Lead	7439-92-1	<1.2	n/a	ug/L	01/08/04	-2.640	2.640		U
BLANK	Antimony	7440-36-0	0.58	0.580	ug/L	01/08/04	-1.100	1.100		
BLANK	Antimony	7440-36-0	<0.5	n/a	ug/L	01/08/04	-1.100	1.100		U
BLANK	Selenium	7782-49-2	0.62	0.620	ug/L	01/08/04	-0.660	0.660		
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L	01/08/04	-0.660	0.660		U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	01/08/04	-0.220	0.220		U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	01/08/04	-0.220	0.220		U
LCS	Silver	7440-22-4	165.2	138.824	% Recov	01/08/04	85.000	115.000	*	
LCS	Silver	7440-22-4	159.1	133.697	% Recov	01/08/04	85.000	115.000	*	
LCS	Arsenic	7440-38-2	224.6	115.179	% Recov	01/08/04	85.000	115.000	*	
LCS	Arsenic	7440-38-2	233	119.487	% Recov	01/08/04	85.000	115.000	*	
LCS	Barium	7440-39-3	362.6	92.500	% Recov	01/08/04	85.000	115.000		

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031619
Matrix: SOLID
Test: ICP-2008 MS All possible metal

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Barium	7440-39-3	369.4	94.235	% Recov	01/08/04	85.000	115.000	
LCS	Beryllium	7440-41-7	80.55	106.972	% Recov	01/08/04	85.000	115.000	
LCS	Beryllium	7440-41-7	75.99	100.916	% Recov	01/08/04	85.000	115.000	
LCS	Cadmium	7440-43-9	71.04	103.557	% Recov	01/08/04	85.000	115.000	
LCS	Cadmium	7440-43-9	69.52	101.341	% Recov	01/08/04	85.000	115.000	
LCS	Chromium	7440-47-3	73.55	85.029	% Recov	01/08/04	85.000	115.000	
LCS	Chromium	7440-47-3	71.53	82.694	% Recov	01/08/04	85.000	115.000	*
LCS	Copper	7440-50-8	99.38	78.252	% Recov	01/08/04	85.000	115.000	*
LCS	Copper	7440-50-8	75.77	59.661	% Recov	01/08/04	85.000	115.000	*
LCS	Mercury	7439-97-6	10.85	115.303	% Recov	01/08/04	85.000	115.000	*
LCS	Mercury	7439-97-6	11.68	124.123	% Recov	01/08/04	85.000	115.000	*
LCS	Nickel	7440-02-0	81.46	97.440	% Recov	01/08/04	85.000	115.000	
LCS	Nickel	7440-02-0	85.45	102.213	% Recov	01/08/04	85.000	115.000	
LCS	Lead	7439-92-1	92.72	98.116	% Recov	01/08/04	85.000	115.000	
LCS	Lead	7439-92-1	96.33	101.937	% Recov	01/08/04	85.000	115.000	
LCS	Antimony	7440-36-0	128.5	93.116	% Recov	01/08/04	85.000	115.000	
LCS	Antimony	7440-36-0	142.6	103.333	% Recov	01/08/04	85.000	115.000	
LCS	Selenium	7782-49-2	138.1	121.140	% Recov	01/08/04	85.000	115.000	*
LCS	Selenium	7782-49-2	138.5	121.491	% Recov	01/08/04	85.000	115.000	*
LCS	Uranium	7440-61-1	402	100.500	% Recov	01/08/04	85.000	115.000	
LCS	Uranium	7440-61-1	386.5	96.625	% Recov	01/08/04	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

2 - 77

SDG Number: WSCF20031619
Matrix: SOLID
Test: Plutonium Isotopics by AEA

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

Lab ID: W030001117

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Pu-239/240 by AEA	PU-239/240	2.0e-03	199.600	RPD	01/06/04	0.000	20.000	*

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Pu-239/240 by AEA	PU-239/240	3.6e-03	0.004	pCi/g	01/05/04	0.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	11.29	91.789	% Recov	01/05/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

2 - 78

SDG Number: WSCF20031619
Matrix: SOLID
Test: Americium by AEA

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Americium-241	14596-10-2	5.7e-02	32.353	RPD	01/05/04	0.000	20.000	
BATCH QC									
BLANK	Americium-241	14596-10-2	2.6e-02	0.026	pCi/g	01/05/04	0.000	1000.000	
LCS	Americium-241	14596-10-2	12.29	93.460	% Recov	01/05/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

2-79

SDG Number: WSCF20031619
Matrix: SOLID
Test: Uranium Isotopics by AEA

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Uranium-238	U-238	1.6e-01	13.333	RPD	01/05/04	0.000	20.000	
BATCH QC									
BLANK	Uranium-238	24678-82-8	1.3e-02	0.013	pCi/g	01/05/04	0.000	1000.000	
LCS	Uranium-238	24678-82-8	3.8e+01	100.237	% Recov	01/05/04	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

2 - 80

SDG Number: WSCF20031619
Matrix: SOLID
Test: & Neptunium by AEA

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date: 12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001117									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Neptunium-237	13994-20-2	1.6e-03	66.667	RPD	01/06/04	0.000	25.000	*
BATCH QC									
BLANK	Neptunium-237	13994-20-2	-1.5e-03	-0.002	pCi/g	01/06/04	0.000	1000.000	*
LCS	Neptunium-237	13994-20-2	6.1e+01	61.000	%Recove	01/06/04	75.000	125.000	*

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

Lab ID: W030001117

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Boron	7440-42-8	268	107.631	% Recov	01/08/04	75.000	125.000	
MS	Bismuth	7440-69-9	254	102.008	% Recov	01/08/04	75.000	125.000	
MSD	Boron	7440-42-8	255	105.809	% Recov	01/08/04	75.000	125.000	
MSD	Bismuth	7440-69-9	244	101.245	% Recov	01/08/04	75.000	125.000	
SPK-RPD	Boron	7440-42-8	105.809	1.707	RPD	01/08/04	0.000	20.000	
SPK-RPD	Bismuth	7440-69-9	101.245	0.751	RPD	01/08/04	0.000	20.000	

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Boron	7440-42-8	<10.2	n/a	ug/g	01/08/04	-10.000	10.000	U
BLANK	Bismuth	7440-69-9	<10	n/a	ug/g	01/08/04	-1.000	0.068	U
LCS	Boron	7440-42-8	60.4	94.375	% Recov	01/08/04	80.000	120.000	
LCS	Bismuth	7440-69-9	152	61.290	% Recov	01/08/04	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031619
Matrix: SOLID
Test: Americium by AEA

SAF Number: F03-025
Sample Date: 12/06/03
Receive Date:12/08/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030001123									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Americium-241	14596-10-2	2.0e+02	18.182	RPD	01/26/04	0.000	20.000	
BATCH QC									
BLANK	Americium-241	14596-10-2	6.3e-01	0.630	pCi/g	01/26/04	0.000	1000.000	
LCS	Americium-241	14596-10-2	12.79	97.262	% Recov	01/26/04	75.000	125.000	

W1141-04-SLF-114

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 12 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

Changed
SpL # 1118
Deleted Vead
TPHG-WA
VB
12/16/03

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Ground Water Protection Program

Richland, WA 99352
Attn: Steve Trent

Customer Code: GPP
PO#: 119143/ES10
Group#: 20031619
Project#: F03-025
Proj Mgr: Steve Trent AO-21
Phone: 373-5869

The following samples were received from you on 12/08/03. 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	Matrix	Sample Date	Tests Scheduled
W030001123	GPP SOLID	Solid, or handle as if solid	12/06/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @IC-30 @PCBGPP @SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSOLID PH-30
W030001121	GPP SOLID	Solid, or handle as if solid	12/06/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSOLID PH-30
W030001119	GPP SOLID	Solid, or handle as if solid	12/06/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSOLID PH-30
W030001117	GPP SOLID	Solid, or handle as if solid	12/06/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSOLID PH-30
W030001118	GPP SOLID	Solid, or handle as if solid	12/06/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOCGPP @TPHD-WA CN-02 NH4-IC PERSOLID PH-30
W030001120	GPP SOLID	Solid, or handle as if solid	12/07/03	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 NH4-IC PERSOLID PH-30

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal

Ground Water Protection Program

Richland, WA 99352
Attn: Steve Trent

Customer Code: GPP
PO#: 119143/ES10
Group#: 20031619
Project#: F03-025
Proj Mgr: Steve Trent AO-21
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@8015GPP	Alcohols, Glycols - 8015
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@AEA-33	& Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SVOCGPP	SW-846 8270B Semi-Vols
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@TPHG-WA	NWTPH-GX TPH Gasoline Range
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
NH4-IC	Ammonia (N) by IC
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

1/7/03

FLUOR Hanford Inc.	CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-025-028	Page 1 of 1

Collector: K HUGHES, J Pope, R Pfister	Company Contact: TRENT, STEVE — Telephone No.: 373-5689	Project Coordinator: TRENT, SJ	Price Code: 8N — Data Turnaround: 45 Days
Project Designation: 200-LW-1/LW-2 Characterization - Soil	Sampling Location: 216-B-58 (35 - 37.5 ft)	SAF No.: F03-025	Air Quality
Ice Chest No.: GPP-03-011	Field Logbook No.: HNF3561 — COA: 119143ES10	Method of Shipment: GOVT VEHICLE	
Shipped To: Waste Sampling & Characterization	Offsite Property No.	Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

20031619

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
Type of Container	Gs*	aG	aG	Gs*	P	~~P~~ G	G			
No. of Container(s)	3	1	1	3	1	1	1			
Volume	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}	See item (1) in Special Instructions.	PCBs - 8082	Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions			

Sample No.	Matrix *	Sample Date	Sample Time										
B17RV9	SOIL	12-8-~~4~~3	0840	✓	—	—	—	—	—	—	W03000112		

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: Kevin D Hughes	Date/Time: 10:22 12-8-3	Received By/Stored In: K Bode K Bedoe	Date/Time: 1022 12/8/03
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis. See SAF COC Comments for holding time issues.

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

Matrix *
S=Soil
SE=Sediment
SO=Solid
St=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

A-6003-618(03/03)

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3-5

FLUOR Hanford Inc.	CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-020-003	Page 1 of 1

Collector Pope/Hughes/Pfister	Company Contact Steve Trent	Telephone No. 373-5869	Project Coordinator TRENT, SJ
Project Designation 216-B-~~26~~ 58 Characterization Sampling - Soil Sampling	Sampling Location C3245 (~~2.5-12 ft~~) (3.5-16.0 ft)		~~SOF No.~~ ~~F03-020~~ F03-025
Ice Chest No.	Field Logbook No. HNF-N-3560-1	COA 119142ES10	Method of Shipment Govt. Vehicle
Shipped To Waste Sampling & Characterization	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A

Price Code 8N

Air Quality ☐

Data Turnaround 45 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	None	Cool 4C	None	Cool 4C	Cool 4C					
Type of Container	P	aG	aG	aG	aG					
No. of Container(s)	1	1	1	1	1					
Volume	20mL	60mL	120mL	120mL	60mL					
SAMPLE ANALYSIS	Activity Scan	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.					

Sample No.	Matrix *	Sample Date	Sample Time										
B183L5	SOIL	12-6-3	14:30	✓	—	—	—	—					
W030001123													

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From Kevin D Hughes [signature]	Date/Time 1800 12-6-3	Received By/Stored In MO-026 Fridge #2	Date/Time 12-6-3/1800
Relinquished By/Removed From MO-026 Fridge #2	Date/Time 1025 12-8-03	Received By/Stored In Greg Thomas [signature]	Date/Time 1025 12/8/03
Relinquished By/Removed From Greg Thomas [signature]	Date/Time 12/8/03	Received By/Stored In [signature] [signature]	Date/Time 1105 12/8/03
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

FH acknowledges that the analytical holding time for NO2, NO3, and PO4 by EPA Method 300.0 will not be met. The lab is to analyze pH within 24 hours of receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis.

ADDED @TPHG-WA

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

(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Gamma Spec - Add-on {Antimony-125, Cesium-134, Tin-~~126~~ Sodium}; Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Americium-241

(3) ICP/MS - 200.8 (TAL) {Cadmium, Chromium, Copper, Nickel, Silver}; ICP/MS - 200.8 (Add-on) {Lead, Mercury, Uranium}

(4) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; Cations (IC) - 300.7 {Nitrogen in ammonium}; Cyanide (Total) - 335.2; pH (Soil) - 9045; TOC - 9060

Matrix *

S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

A-6003-618(03/03)

3-6

FLUOR Hanford Inc.	CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-025-022	Page 1 of 1
Collector: Pfister, Pope, HUGHES	Company Contact: TRENT, STEVE	Telephone No.: 373-5689	Project Coordinator: TRENT, SJ	Price Code: 8N; Air Quality; Data Turnaround: 45 Days
Project Designation: 200-LW-1/LW-2 Characterization - Soil	Sampling Location: 216-B-58 (17.5 -20 ft)		SAF No.: F03-025	
Ice Chest No.	Field Logbook No.	COA: 119143ES10	Method of Shipment: GOVT. VEHICLE	
Shipped To: Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
Type of Container	Gs*	aG	aG	Gs*	P	~~P~~ G	G			
No. of Container(s)	3	1	1	3	1	1	1			
Volume	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Butanol)	See item (1) in Special Instructions.	PCBs - 8082	Alcohols, Glycols, & Ketones - 8015 (Ethylene glycol)	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.			

VOA + WTPH-G shipped offsite T.F. 12-16-03 to meet detection limits for customer

3-5V Bottles

Shipped Back 12/11/03

Sample No.	Matrix *	Sample Date	Sample Time	VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Butanol)	See item (1) in Special Instructions.	PCBs - 8082	Alcohols, Glycols, & Ketones - 8015 (Ethylene glycol)	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.			
B17RT4	SOIL	12-6-3	15:45	—	—	—	—	—	—	—	WO-5000	1118	
B17RT7	SOIL	12-6-3	15:45	—	—	—	—	—	—	—		1119	

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: Kevin Hughes	Date/Time: 12-6-3 1800	Received By/Stored In: MO026 Fridge #2	Date/Time: 12-6-3 1800
Relinquished By/Removed From: MO-026 Fridge #2	Date/Time: 1025 12-8-03	Received By/Stored In: Greg Thomas	Date/Time: 1025 12/8/03
Relinquished By/Removed From: Greg Thomas	Date/Time: 1105 12/8/03	Received By/Stored In: [signature]	Date/Time: 1105 12/8/03
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis. See SAF COC Comments for holding time issues.

(1) Semi-VOA - 8270A (TCL) (Phenol); Semi-VOA -- 8270A (Add-On) (Tributyl phosphate); TPH-Diesel Range - WTPH-D (Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range); TPH-Gasoline Range - WTPH-G

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

(3) ICP/MS - 200.8 (TAL) (Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver); ICP/MS - 200.8 (Add-on) (Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium); ICP Metals - 6010A (Add-on) (Bismuth)

(4) IC Anions - 300.0 (Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate); Cations (IC) - 300.7 (Nitrogen in ammonium); Cyanide (Total) - 335.2; pH (Soil) - 9045

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

A-6003-618(03/03)

3-7

FLUOR Hanford Inc.	CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-025-026	Page 1 of 1
Collector	Company Contact: TRENT, STEVE	Telephone No.: 373-5689	Project Coordinator: TRENT, SJ	Price Code: 8N Air Quality; Data Turnaround: 45 Days
Project Designation: 200-LW-1/LW-2 Characterization - Soil	Sampling Location: 216-B-58 (27.5 - 30 ft)		SAF No.: F03-025	
Ice Chest No.	Field Logbook No.	COA: 119143ES10	Method of Shipment: GOVT. VEHICLE	
Shipped To: Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None			
Type of Container	Gs*	aG	aG	Gs*	P	~~P~~ G	G			
No. of Container(s)	3	1	1	3	1	1	1			
Volume	40mL	120mL	120mL	40mL	500mL	250mL	120mL			
SAMPLE ANALYSIS	VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}	See item (1) in Special Instructions.	PCBs - 8082	Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.			

Sample No.	Matrix *	Sample Date	Sample Time										
B17RV6	SOIL	12-7-3	14:10	—	—	—	—	—	—	—	W03000	1120	

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: Kevin Hughes [signature]	Date/Time: 12-7-3/16:40	Received By/Stored In: MO-026 Fridge #1	Date/Time: 12-7-3/16:40
Relinquished By/Removed From: MO-026 Fridge #1	Date/Time: 12/8/03 1025	Received By/Stored In: Greg Thomas [signature]	Date/Time: 12/8/03 1025
Relinquished By/Removed From: Greg Thomas [signature]	Date/Time: 12/8/03 1105	Received By/Stored In: [signature]	Date/Time: 12/8/03 1105
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of sample receipt. The laboratory is to report kerosene range organics from the WTPH-D analysis. See SAF COC Comments for holding time issues.

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

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

(3) ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver}; ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium}; ICP Metals - 6010A (Add-on) {Bismuth}

(4) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; Cations (IC) - 300.7 {Nitrogen in ammonium}; Cyanide (Total) - 335.2; pH (Soil) - 9045

Matrix *

S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

A-6003-618(03/03)

1/7/04

3-8

FLUOR Hanford Inc.	CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-025-020	Page 1 of 1
Collector: Pole/Hughes/Pfister	Company Contact: TRENT, STEVE — Telephone No.: 373-5689	Project Coordinator: TRENT, SJ	Price Code: 8N — Data Turnaround: 45 Days
Project Designation: 200-LW-1/LW-2 Characterization - Soil	Sampling Location: 216-B-58 (~~12.5 - 15 ft~~) (11-13.5 ft) 12-6-3	SAF No.: F03-025	Air Quality
Ice Chest No.	Field Logbook No. — COA: 119143ES10	Method of Shipment: GOVT VEHICLE	
Shipped To: Waste Sampling & Characterization	Offsite Property No.	Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

20031619

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None				
Type of Container	Gs*	aG	aG	Gs*	P	P	G				
No. of Container(s)	3	1	1	3	1	1	~~1~~ 2				
Volume	40mL	120mL	120mL	40mL	500mL	250mL	120mL				
SAMPLE ANALYSIS	VOA - 8260A (TCL), VOA - 8260A (Add-On) (1-Butanol)	See item (1) in Special Instructions.	PCBs - 8082	Alcohols, Glycols, & Ketones - 8015 (Ethylene glycol)	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions				
Sample No. / Matrix * / Sample Date / Sample Time											
B17RT1 / SOIL / 12-6-3 / 10:30	—	—	—	—	—	—	—				
W03000117											

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: KEVIN HUGHES — Date/Time: 12-6-3 1800	Received By/Stored In: MO926 Fridge #2 — Date/Time: 12-6-3/1800	
Relinquished By/Removed From: MO926 Fridge #2 — Date/Time: 12/8/03 1025	Received By/Stored In: Greg Thomas Greg Thomas — Date/Time: 12/8/03 1025	
Relinquished By/Removed From: Greg Thomas Greg Thomas 12/8/03 — Date/Time: 1105	Received By/Stored In: [illegible] 12/8/03 — Date/Time: 1105	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	
Relinquished By/Removed From: — Date/Time:	Received By/Stored In: — Date/Time:	

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(3) ICP/MS - 200.8 (TAL) (Antimony, Barium, Cadmium, Chromium, Copper, Nickel, Silver); ICP/MS - 200.8 (Add-on) (Arsenic, Beryllium, Lead, Mercury, Selenium, Uranium); ICP Metals - 6010A (Add-on) (Bismuth) Boven? Tsa 10/15/03

(4) IC Anions - 300.0 (Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate); Cations (IC) - 300.7 (Nitrogen in ammonium); Cyanide (Total) - 335.2; pH (Soil) - 9045

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DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Beebe, Kevin L

From: Trent, Stephen J
Sent: Tuesday, December 09, 2003 11:35 AM
To: Dale, Troy F
Cc: Neely, Michael; Trechter, John E Jr.; Fitzgerald, Scot L; Beebe, Kevin L; Sims, Vic T; Rice, Andrew D
Subject: RE: Clarification for Samples Associated with SAF F03-025

Importance: High

Troy,

Thanks for catching these discrepancies. Sample B183L5 should be analysed for the same analytes as B17RT4, B17RT6, B17RT7 and B17RT9. The NCOs grabbed the wrong COC and that's why we had these discrepancies and as well as the VOA and PCB discrepancies.

Sample B17RT1 should be the only sample analysed for boron.

Regarding the need to dilute, I need to know what the hit on the detection limits will be. We may want to send this off-site for these analyses.

Steve

-----Original Message-----
From: Dale, Troy F
Sent: Tuesday, December 09, 2003 10:32 AM
To: Trent, Stephen J
Cc: Neely, Michael; Trechter, John E Jr.; Fitzgerald, Scot L; Beebe, Kevin L; Sims, Vic T; Rice, Andrew D; Dale, Troy F
Subject: Clarification for Samples Associated with SAF F03-025

Steve

A couple of issues from the six samples we received on 12/8 associated with SAF# F03-025

- The requested analyses for each COC (there are five COC's for all the samples) associated with these samples (B183L5, B17RT1, B17RT4, B17RT6, B17RT7 and B17RT9) are different.
- B183L5 has requested a gamma add-on for Tin-126 and TOC which are not listed on the other COC's.
- B17RT1, B17RT4, B17RT6, B17RT7 and B17RT9 have requested Semi-VOA Phenol from the TCL, WTPH-G, ICP/MS Antimony and Barium from the TCL, ICP/MS add-on's Arsenic, Beryllium (on the TCL), and Selenium, and ICP/6010A add-on Bismuth. None of these are requested for B183L5.
- B17RT1 has requested ICP/6010A add-on Boron, but this is not listed for any of the other samples.
- B17RT4 is the only sample we will have to dilute to analyze because of alpha activity. The two methods that will suffer the most will be 8260 and 8015. I will have more information on this after we do some initial extractions to see what activity will follow the liquid phase.

Let me know how you want to proceed, Thanks

Troy

Beebe, Kevin L

From: Trent, Stephen J
Sent: Monday, December 08, 2003 3:51 PM
To: Dale, Troy F
Cc: Neely, Michael; Trechter, John E Jr.; Fitzgerald, Scot L; Beebe, Kevin L; Sims, Vic T
Subject: RE: Samples Received on 12-8-03

Troy,

If volume is an issue for these added analyses, please pull material for the PCB analysis from one of the other bottles, and make sure you don't use this sample for your batch QC.

Steve

-----Original Message-----
From: Trent, Stephen J
Sent: Monday, December 08, 2003 2:51 PM
To: Dale, Troy F
Cc: Neely, Michael; Trechter, John E Jr.; Fitzgerald, Scot L; Beebe, Kevin L; Sims, Vic T
Subject: RE: Samples Received on 12-8-03

Troy,

Acknowledged....

Steve

-----Original Message-----
From: Dale, Troy F
Sent: Monday, December 08, 2003 2:40 PM
To: Trent, Stephen J
Cc: Neely, Michael; Trechter, John E Jr.; Fitzgerald, Scot L; Beebe, Kevin L; Sims, Vic T
Subject: Samples Received on 12-8-03

Steve

Per our phone conversation after reviewing the samples we received today:

- At your request we will add Methods 8082, 8015 and 8260 to the COC for B183L5, SAF# F03-025. The sample will more than likely come out of the Semi-VOA container for this sample.
- The sample date for B183L2, SAF# F03-021, is 12-4-03. Given this we have missed the hold time for NO2/NO3, but you have requested we run the analyses regardless.

Any additions or corrections to the above let me know. Thanks

Troy

Dale, Troy F

From:	Iwatate, Kenneth
Sent:	Thursday, January 22, 2004 11:10 AM
To:	Dale, Troy F; Trechter, John E Jr.
Cc:	Rice, Andrew D; Fitzgerald, Scot L
Subject:	Low Neptunium Recovery for LCS
Importance:	High

Troy, John

The Groundwater Protection Project (GPP) sent to the WSCF laboratory several soil samples and requested neptunium analyses. All of this work had to be done in a short period of time. All samples were analyzed using the following batch criteria: Blank, LCS, "LCS+spike", Sample, Duplicate, Sample+spike, and Duplicate+spike, since we did not have any suitable neptunium tracer. It should be noted that the LCS and "LCS+spike" are made up by using 25 mLs of 2M nitric acid and, in the case of the LCS, spiked with 0.025 mL of a 252 dpm/mL Np-237 solution and, in the case of the "LCS+spike", 0.05 mL of the Np-237 solution. The spiked duplicate and samples were done with 0.025 mL of the same Np-237 solution.

After an initial batch of soils was processed and the data analyzed, the Np-237 recovery for the LCS and "LCS+spike" were found to be approximately 50-60%. Initially, it was thought that there was just a simple error since the same data showed that the spike recoveries of the duplicate and soil samples were in the acceptable range of 75 - 125% (QAPP-017).

Due to the time crunch all soils were processed for Np. The data was analyzed and the same problem was apparent; LCS and "LCS+spike" recoveries on the order of 50% whereas, the soil spikes were in the range of approximately 75-125%. The results of the spike recoveries for the soils alone showed that the method was working properly, yet there seemed to be an oddity with the LCS and "LCS+spike".

Before the last batch of soils was to be processed (report due to GPP on 1/29), a test of a hypothesis was conducted. It was the chemist's idea that the major difference between the soils and the LCS was the level of iron. It isn't so much that the iron helps in extraction *per se*, but that the addition of ascorbic acid to convert all iron(III) to iron(II) was excessive due to a poorly detected color change or lack thereof. If excess ascorbic acid is present, Np could change its oxidation state to one that has a lower Kd (distribution coefficient) on the TEVA resin at the conditions for efficient extraction. Conversely, if the iron(II) sulfamate reagent was at 0.6M, the excess ascorbic acid would not be present, due to an easily detectable color change. Could this mean that the iron(II) sulfamate solution was less than the required 0.6M?

Four test samples were run. These consisted of 25 mLs of 2M nitric acid spiked with Np-237. Two of the samples contained 1 mL of iron carrier (10 mg) and 2 mL of the iron(II) sulfamate. The other two samples just had 4 mLs of the iron(II) sulfamate added. Also in all cases, the technician took great pains by adding the ascorbic acid solution dropwise and letting the sample sit for a few seconds between additions. (SEE attached Excel™ spreadsheet for details).

NpTest.xls (19 KB)

As you can see in the spreadsheet data, the recoveries ran 88-107%. The extra iron, from either adding 10 mg of iron or doubling the iron(II) sulfamate, aided in the extraction of Np using TEVA resin. I believe that this is mostly attributable to the fact that ascorbic acid is kept to a minimum by detecting the color change. It may also be concluded that the iron(II) sulfamate concentration may not be 0.6M. To improve on this, one can either add a very small amount of iron to the samples, except for those containing lots of iron, or use a more sensitive indicator such as 1 drop of ammonium thiocyanate (1M).

If you have any questions, feel free to call.

Ken Iwatate
Radiochemistry
Analytical Services, WSCF
Voice: (509)373-7198 (Office)
FAX: (509) 372-0456
Fluor Hanford, S3-30, PO Box 1000, Richland, WA 99352