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

0060031

FLUOR

Memorandum

8F-000-SLF-03-016 R2

To:	S. J. Trent	Date:	June 11, 2003
From:	S. L. Fitzgerald, Manager WSCF Analytical Services	Telephone:	373-7495

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

Subject: FINAL RESULTS FOR 200-PW-2/200-PW-4 OU– SAMPLE DELIVERY GROUP WSCF20030361-SAF NUMBER F03-007

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

(2) HNF-SD-CD-QAPP-017, Rev. 5, Waste Sampling and Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for the sample delivery group (WSCF20030361), the analytical results (Attachment 2) and the sample receipt information (Attachment 3). This is a second revision of the final report to include additional analytical work.

slf/ddw

Attachments 3

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ATTACHMENT 1

NARRATIVE

Consisting of 3 pages
Cover page not included

Sample Delivery Group	**WSCF20030361**
Sample Matrix	**Water**
Sample Visual	**Clear**
SAF Number	**F03-007**
Data Deliverable	**Summary Report**

Introduction

One (1) water sample (B16LD9-A) from the GPP was received at the WSCF Laboratory on March 19 and 20, 2003. The sample was 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 approved methods.
- VOA's by EPA SW-846 Method 8260A. Analytical work was performed with no deviations to the approved method.
- Semi-VOA's by EPA SW-846 Method 8270B. 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 NH4 by EPA SW-846 Methods 300.0 and 300.7. Analytical work was performed with no deviations to the approved method for Anions, but a deviation was required for the NH4 (see comments below).

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

- Cr+6 by EPA SW-846 Method 7196. Analytical work was performed with no deviations to the approved method.

- All RadChem analyses (AEA's, GEA) were run by WSCF internal WDOE accredited 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) 2-31 for QC details.

ICP-AES and ICP-MS Metals – The hold time(s) for these analyses were 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) 2-32, 2-33, 2-40, 2-41, and 2-42 for QC details.

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) 2-36 and 2-37 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) 2-24, 2-25, 2-26 and 2-27 for QC details.

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) 2-35 for QC details.

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) 2-30 for details.

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) 2-34 for details.

IC Anions – 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) 2-18 and 2-19 for QC details.

NH4 – The hold time(s) for this analysis was not met. The sample was not preserved when received and was not analyzed within the forty-eight (48) hour requirement. The client was notified and requested WSCF to continue with the 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) 2-21 for QC details.

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) 2-23 for QC details.

Cr+6 – 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) 2-20 for QC details.

RadChem – There are no hold times associated with these methods. Except for GEA, a Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-22, 2-28, 2-29, 2-38, and 2-39 for QC details.

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
CN - Cyanide
Am – Americium
Cm - Curium
Pu – Plutonium
Np – Neptunium
GEA – Gamma Energy Analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
Cr+6 – Hexavalent Chromium
NH4 - Ammonium

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ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 42 pages
Cover page not inclued

WSCF
ANALYTICAL RESULTS REPORT

for

Ground Water Protection Program

Richland, WA 99352

Attention: Steve Trent

Analytical: _____

Client Services: _____

Contract#: F03-007
Report#: WSCF20030361
Report Date: 11-jun-2003
Report W004/ver. 5.1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9 200-PW-2&4 TRENT	7664-41-7	Ammonia (N) by IC	WATER	LA-503-401	E	6.10e-03	mg/L	1.00	5.0e-03	03/26/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	57-12-5	Cyanide by Midi/Spectrophotom	WATER	LA-695-402	U	< 4.00	ug/L		4.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	18540-29-9	Hexavalent chromium	WATER	LA-265-403	U	< 2.00e-03	ug/mL		2.0e-03	03/20/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	540-51-2	2-Bromoethanol	WATER	Organics		1.80e+04	ug/L		5.0e+03	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	60-29-7	Diethyl ether	WATER	Organics	U	< 5.00e+03	ug/L		5.0e+03	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	107-21-1	Ethylene glycol	WATER	Organics	U	< 5.00e+03	ug/L		5.0e+03	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	67-56-1	Methanol	WATER	Organics	U	< 1.00e+03	ug/L		1.0e+03	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14596-10-2	Am-241 by AEA	WATER	LA-508-471	U	0.0110	pCi/L		0.15	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Am-241 by AEA Total Cntg Error	WATER	LA-508-471		760	%		0.0	04/02/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	24959-67-9	Bromide (Br) by IC	WATER	LA-533-410	U	< 0.0450	mg/L	1.00	0.045	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	16887-00-6	Chloride (Cl) by IC	WATER	LA-533-410		0.175	mg/L	1.00	0.014	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	16984-48-8	Fluoride (F) by IC	WATER	LA-533-410	U	< 7.00e-03	mg/L	1.00	7.0e-03	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	NO3-N	Nitrate (N) by IC	WATER	LA-533-410	U	< 5.00e-03	mg/L	1.00	5.0e-03	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	NO2-N	Nitrite (N) by IC	WATER	LA-533-410	U	< 9.00e-03	mg/L	1.00	9.0e-03	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14265-44-2	Phosphate (P) by IC	WATER	LA-533-410	U	< 0.0130	mg/L	1.00	0.013	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14808-79-8	Sulfate (SO4) by IC	WATER	LA-533-410	U	< 0.0240	mg/L	1.00	0.024	03/19/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Ac-228 Rel.% Count Error (GEA)	WATER	LA-508-462		431	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14331-83-0	Ac-228 by GEA	WATER	LA-508-462	U	-4.09	pCi/L		26	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Am-241 Rel.% Count Error (GEA)	WATER	LA-508-462		100	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14596-10-2	Am-241 by GEA	WATER	LA-508-462	U	-24.0	pCi/L		1.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Bi-212 Rel.% Count Error (GEA)	WATER	LA-508-462		238	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14913-49-6	Bi-212 by GEA	WATER	LA-508-462	U	-14.9	pCi/L		55	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Bi-214 Rel.% Count Error (GEA)	WATER	LA-508-462		17.6	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14733-03-0	Bi-214 by GEA	WATER	LA-508-462		206	pCi/L		16	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-462		443	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	14762-78-8	Ce-144 by GEA	WATER	LA-508-462	U	-6.95	pCi/L		52	03/25/03	03/19/03	03/19/03
W030000121	B16LD9 200-PW-2&4 TRENT	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-462		141	%		0.0	03/25/03	03/19/03	03/19/03

MDL=Minimum Detection Limit E - Analyte is an estimate, has potentially larger errors U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

Report W004/ver. 5.1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

2 - 3

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	10198-40-0	Co-60 by GEA	WATER	LA-508-462	U	-2.69	pCi/L		6.4	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-462		133	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13967-70-9	Cs-134 by GEA	WATER	LA-508-462	U	3.52	pCi/L		8.5	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-462		467	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	10045-97-3	Cs-137 by GEA	WATER	LA-508-462	U	-0.959	pCi/L		7.7	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-462		1.00e+03	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	14683-23-9	Eu-152 by GEA	WATER	LA-508-462	U	-0.558	pCi/L		24	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-462		187	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15585-10-1	Eu-154 by GEA	WATER	LA-508-462	U	5.87	pCi/L		21	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-462		234	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	14391-16-3	Eu-155 by GEA	WATER	LA-508-462	U	-6.62	pCi/L		26	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-462		1.00e+03	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	14681-63-1	Nb-94 by GEA	WATER	LA-508-462	U	-0.373	pCi/L		7.6	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Pb-212 Rel.% Count Error (GEA)	WATER	LA-508-462		157	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15092-94-1	Pb-212 by GEA	WATER	LA-508-462	U	6.28	pCi/L		15	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Pb-214 Rel.% Count Error (GEA)	WATER	LA-508-462		22.4	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15067-28-4	Pb-214 by GEA	WATER	LA-508-462		126	pCi/L		17	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Ra-226 Rel.% Count Error (GEA)	WATER	LA-508-462		17.6	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13982-63-3	Ra-226 by GEA	WATER	LA-508-462		206	pCi/L		16	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Ra-228 Rel.% Count Error (GEA)	WATER	LA-508-462		431	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15262-20-1	Ra-228 by GEA	WATER	LA-508-462	U	-4.09	pCi/L		26	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-462		770	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13968-53-1	Ru-103 by GEA	WATER	LA-508-462	U	0.579	pCi/L		7.9	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-462		1.00e+03	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13967-48-1	Ru-106 by GEA	WATER	LA-508-462	U	-2.71	pCi/L		71	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-462		409	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	14234-35-6	Sb-125 by GEA	WATER	LA-508-462	U	3.33	pCi/L		23	03/25/03	03/19/03	03/19/03

MDL=Minimum Detection Limit E - Analyte is an estimate, has potentially larger errors U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

Report W004/ver. 5.1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ		Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-462			100	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13966-06-8	Sn-113 by GEA	WATER	LA-508-462	U		-6.29	pCi/L		9.6	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Sn-126 Rel.% Count Error (GEA)	WATER	LA-508-462			104	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15832-50-5	Sn-126 by GEA	WATER	LA-508-462	U		11.4	pCi/L		20	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Th-234 Rel.% Count Error (GEA)	WATER	LA-508-462			128	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15065-10-8	Th-234 by GEA	WATER	LA-508-462	U		-154	pCi/L		3.1e+02	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Tl-208 Rel.% Count Error (GEA)	WATER	LA-508-462			100	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	14913-50-9	Tl-208 by GEA	WATER	LA-508-462	U		4.43	pCi/L		8.1	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	U-235 Rel.% Count Error (GEA)	WATER	LA-508-462			527	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15117-96-1	U-235 by GEA	WATER	LA-508-462	U		-6.07	pCi/L		54	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-462			348	%		0.0	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13982-39-3	Zn-65 by GEA	WATER	LA-508-462	U		2.95	pCi/L		16	03/25/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-36-0	Antimony by ICP	WATER	LA-505-411	U	<	45.0	ug/L	1.00	45	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-38-2	Arsenic by ICP	WATER	LA-505-411	U	<	49.0	ug/L	1.00	49	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-39-3	Barium by ICP	WATER	LA-505-411	U	<	2.80	ug/L	1.00	2.8	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-41-7	Beryllium by ICP	WATER	LA-505-411	U	<	2.40	ug/L	1.00	2.4	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-69-9	Bismuth by ICP	WATER	LA-505-411	U	<	0.00	ug/L	1.00	0.0	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-50-8	Boron by ICP	WATER	LA-505-411	EU	<	102.0	ug/L	1.00	102.0	06/09/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-43-9	Cadmium by ICP	WATER	LA-505-411	U	<	2.30	ug/L	1.00	2.3	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-47-3	Chromium by ICP	WATER	LA-505-411	U	<	7.30	ug/L	1.00	7.3	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-50-8	Copper by ICP	WATER	LA-505-411	U	<	4.80	ug/L	1.00	4.8	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-92-1	Lead by ICP	WATER	LA-505-411	U	<	24.0	ug/L	1.00	24	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-96-5	Manganese by ICP	WATER	LA-505-411	U	<	2.70	ug/L	1.00	2.7	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-98-7	Molybdenum by ICP	WATER	LA-505-411	U	<	4.00	ug/L	1.00	4.0	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-02-0	Nickel by ICP	WATER	LA-505-411	U	<	7.10	ug/L	1.00	7.1	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7782-49-2	Selenium by ICP	WATER	LA-505-411	U	<	86.0	ug/L	1.00	86	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-22-4	Silver by ICP	WATER	LA-505-411	U	<	3.50	ug/L	1.00	3.5	04/10/03	03/19/03	03/19/03

MDL=Minimum Detection Limit E - Analyte is an estimate, has potentially larger errors U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ		Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	7440-31-5	Tin by ICP	WATER	LA-505-411			22.0	ug/L	1.00	2.0	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-62-2	Vanadium by ICP	WATER	LA-505-411	U	<	7.30	ug/L	1.00	7.3	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-66-6	Zinc by ICP	WATER	LA-505-411	U	<	6.90	ug/L	1.00	6.9	04/10/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7429-90-5	Aluminum by ICP-MS	WATER	LA-505-412	U	<	13.8	ug/L	1.25	14	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-36-0	Antimony by ICP-MS	WATER	LA-505-412	U	<	0.625	ug/L	1.25	0.62	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-38-2	Arsenic by ICP-MS	WATER	LA-505-412	U	<	0.375	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-39-3	Barium by ICP-MS	WATER	LA-505-412	U	<	0.250	ug/L	1.25	0.25	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-41-7	Beryllium by ICP-MS	WATER	LA-505-412	U	<	0.375	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-43-9	Cadmium by ICP-MS	WATER	LA-505-412	U	<	0.125	ug/L	1.25	0.12	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-47-3	Chromium by ICP-MS	WATER	LA-505-412			1.56	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-48-4	Cobalt by ICP-MS	WATER	LA-505-412	U	<	0.250	ug/L	1.25	0.25	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-50-8	Copper by ICP-MS	WATER	LA-505-412	U	<	0.625	ug/L	1.25	0.62	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-92-1	Lead by ICP-MS	WATER	LA-505-412	U	<	1.50	ug/L	1.25	1.5	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-96-5	Manganese by ICP-MS	WATER	LA-505-412			1.32	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-97-6	Mercury by ICP-MS	WATER	LA-505-412	U	<	0.125	ug/L	1.25	0.12	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7439-98-7	Molybdenum by ICP-MS	WATER	LA-505-412			0.381	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-02-0	Nickel by ICP-MS	WATER	LA-505-412			1.76	ug/L	1.25	0.62	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7782-49-2	Selenium by ICP-MS	WATER	LA-505-412	U	<	0.375	ug/L	1.25	0.38	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-22-4	Silver by ICP-MS	WATER	LA-505-412			0.482	ug/L	1.25	0.25	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-28-0	Thallium by ICP-MS	WATER	LA-505-412			0.314	ug/L	1.25	0.12	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-29-1	Thorium by ICP-MS	WATER	LA-505-412			0.257	ug/L	1.25	0.25	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-61-1	Uranium by ICP-MS	WATER	LA-505-412	U	<	0.125	ug/L	1.25	0.12	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-62-2	Vanadium by ICP-MS	WATER	LA-505-412	U	<	0.500	ug/L	1.25	0.50	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	7440-66-6	Zinc by ICP-MS	WATER	LA-505-412	U	<	5.00	ug/L	1.25	5.0	05/15/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	TPH-G	Total Pet. Hydrocarbons Gas	WATER	NWTPH	U	<	50.0	ug/L	1.00	50	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	12674-11-2	Aroclor-1016	WATER	LA-523-427	U	<	0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	11104-28-2	Aroclor-1221	WATER	LA-523-427	U	<	0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	11141-16-5	Aroclor-1232	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	53469-21-9	Aroclor-1242	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	12672-29-6	Aroclor-1248	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	11097-69-1	Aroclor-1254	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	11096-82-5	Aroclor-1260	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	37324-23-5	Aroclor-1262	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	11100-14-4	Aroclor-1268	WATER	LA-523-427	U	< 0.120	ug/L	1.00	0.12	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13981-16-3	Pu-238 by AEA	WATER	LA-508-471		0.150	pCi/L		0.11	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	WATER	LA-508-471		56.0	%		0.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	WATER	LA-508-471		150	%		0.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	PU-239/240	Pu-239/240 by AEA	WATER	LA-508-471	U	0.0140	pCi/L		0.035	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13982-63-3	Ra-226 Rel.% Count Error (AEA)	WATER	LA-508-471		70.0	%		0.0	04/22/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13982-63-3	Ra-226 by AEA	WATER	LA-508-471		0.0320	pCi/L		0.030	04/22/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	Ra-228 Rel.% Count Error (GEA)	WATER	LA-508-481		100	%		0.0	04/22/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15262-20-1	Ra-228 by GEA	WATER	LA-508-481	U	-2.30	pCi/L		3.2	04/22/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	120-82-1	1,2,4-Trichlorobenzene	WATER	LA-523-456	U	< 3.40	ug/L	1.00	3.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	95-50-1	1,2-Dichlorobenzene (SV)	WATER	LA-523-456	U	< 4.80	ug/L	1.00	4.8	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	541-73-1	1,3-Dichlorobenzene	WATER	LA-523-456	U	< 5.90	ug/L	1.00	5.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	106-46-7	1,4-Dichlorobenzene (SV)	WATER	LA-523-456	U	< 5.70	ug/L	1.00	5.7	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	95-95-4	2,4,5-Trichlorophenol	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	88-06-2	2,4,6-Trichlorophenol	WATER	LA-523-456	U	< 2.70	ug/L	1.00	2.7	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	120-83-2	2,4-Dichlorophenol	WATER	LA-523-456	U	< 1.60	ug/L	1.00	1.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	105-67-9	2,4-Dimethylphenol	WATER	LA-523-456	U	< 4.90	ug/L	1.00	4.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	51-28-5	2,4-Dinitrophenol	WATER	LA-523-456	U	< 3.80	ug/L	1.00	3.8	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	121-14-2	2,4-Dinitrotoluene	WATER	LA-523-456	U	< 2.00	ug/L	1.00	2.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	606-20-2	2,6-Dinitrotoluene	WATER	LA-523-456	U	< 2.50	ug/L	1.00	2.5	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	111-76-2	2-Butoxyethanol	WATER	LA-523-456	U	< 3.50	ug/L	1.00	3.5	03/31/03	03/19/03	03/19/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4 TRENT	91-58-7	2-Chloronaphthalene	WATER	LA-523-456	U	< 2.60	ug/L	1.00	2.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	95-57-8	2-Chlorophenol	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	91-57-6	2-Methylnaphthalene	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	95-48-7	2-Methylphenol	WATER	LA-523-456	U	< 2.60	ug/L	1.00	2.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	88-74-4	2-Nitroaniline	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	88-75-5	2-Nitrophenol	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	108-39-4	3 & 4 Methylphenol Total	WATER	LA-523-456	U	< 3.60	ug/L	1.00	3.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	91-94-1	3,3'-Dichlorobenzidine	WATER	LA-523-456	U	< 4.70	ug/L	1.00	4.7	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	99-09-2	3-Nitroaniline	WATER	LA-523-456	U	< 5.10	ug/L	1.00	5.1	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	534-52-1	4,6-Dinitro-2-methylphenol	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	101-55-3	4-Bromophenyl-phenylether	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	59-50-7	4-Chloro-3-methylphenol	WATER	LA-523-456	U	< 1.50	ug/L	1.00	1.5	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	106-47-8	4-Chloroaniline	WATER	LA-523-456	U	< 8.20	ug/L	1.00	8.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	7005-72-3	4-Chlorophenyl-phenylether	WATER	LA-523-456	U	< 2.50	ug/L	1.00	2.5	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	100-01-6	4-Nitroaniline	WATER	LA-523-456	U	< 3.30	ug/L	1.00	3.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	100-02-7	4-Nitrophenol	WATER	LA-523-456	U	< 1.60	ug/L	1.00	1.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	83-32-9	Acenaphthene	WATER	LA-523-456	U	< 2.70	ug/L	1.00	2.7	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	208-96-8	Acenaphthylene	WATER	LA-523-456	U	< 2.60	ug/L	1.00	2.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	120-12-7	Anthracene	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	56-55-3	Benzo(a)anthracene	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	50-32-8	Benzo(a)pyrene	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	205-99-2	Benzo(b)fluoranthene	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	191-24-2	Benzo(g,h,i)perylene	WATER	LA-523-456	U	< 2.80	ug/L	1.00	2.8	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	207-08-9	Benzo(k)fluoranthene	WATER	LA-523-456	U	< 3.20	ug/L	1.00	3.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	100-51-6	Benzyl alcohol	WATER	LA-523-456	U	< 2.00	ug/L	1.00	2.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	117-81-7	Bis (2-Ethylhexyl) phthalate	WATER	LA-523-456	U	< 3.00	ug/L	1.00	3.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4 TRENT	108-60-1	Bis(2-Chloro-1-methylene)	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03

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RQ=Result Qualifier

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	85-68-7	Butylbenzylphthalate	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	86-74-8	Carbazole	WATER	LA-523-456	U	< 1.60	ug/L	1.00	1.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	218-01-9	Chrysene	WATER	LA-523-456	U	< 2.60	ug/L	1.00	2.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	84-74-2	Di-n-butylphthalate	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	117-84-0	Di-n-octylphthalate	WATER	LA-523-456	U	< 2.80	ug/L	1.00	2.8	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	53-70-3	Dibenzo(a,h)anthracene	WATER	LA-523-456	U	< 3.00	ug/L	1.00	3.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	132-64-9	Dibenzofuran	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	84-66-2	Diethylphthalate	WATER	LA-523-456	U	< 7.20	ug/L	1.00	7.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	131-11-3	Dimethylphthalate	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	206-44-0	Fluoranthene	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	86-73-7	Fluorene	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	118-74-1	Hexachlorobenzene	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	87-68-3	Hexachlorobutadiene	WATER	LA-523-456	U	< 4.10	ug/L	1.00	4.1	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	77-47-4	Hexachlorocyclopentadiene	WATER	LA-523-456	U	< 8.90	ug/L	1.00	8.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	67-72-1	Hexachloroethane	WATER	LA-523-456	U	< 6.20	ug/L	1.00	6.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	193-39-5	Indeno(1,2,3-cd)pyrene	WATER	LA-523-456	U	< 3.00	ug/L	1.00	3.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	78-59-1	Isophorone	WATER	LA-523-456	U	< 2.20	ug/L	1.00	2.2	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	621-64-7	N-Nitroso-di-n-propylamine	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	86-30-6	N-Nitrosodiphenylamine	WATER	LA-523-456	U	< 2.60	ug/L	1.00	2.6	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	91-20-3	Naphthalene	WATER	LA-523-456	U	< 2.70	ug/L	1.00	2.7	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	98-95-3	Nitrobenzene	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	87-86-5	Pentachlorophenol	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	85-01-8	Phenanthrene	WATER	LA-523-456	U	< 2.50	ug/L	1.00	2.5	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	108-95-2	Phenol	WATER	LA-523-456	U	< 1.90	ug/L	1.00	1.9	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	129-00-0	Pyrene	WATER	LA-523-456	U	< 2.40	ug/L	1.00	2.4	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	126-73-8	Tri-n-butylphosphate	WATER	LA-523-456	U	< 2.80	ug/L	1.00	2.8	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	111-44-4	bis(-2-Chloroethyl)Eth	WATER	LA-523-456	U	< 3.90	ug/L	1.00	3.9	03/31/03	03/19/03	03/19/03

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Report W004/ver. 5.1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	111-91-1	bis(2-Chloroethoxy)methane	WATER	LA-523-456	U	< 2.30	ug/L	1.00	2.3	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	13966-29-5	U-234 by AEA	WATER	LA-508-471		0.0170	pCi/L		0.012	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	U-234 by AEA Total Cntg Error	WATER	LA-508-471		100	%		0.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	15117-96-1	U-235 by AEA	WATER	LA-508-471	U	4.80e-03	pCi/L		0.044	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	U-235 by AEA Total Cntg Error	WATER	LA-508-471		450	%		0.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	24678-82-8	U-238 by AEA	WATER	LA-508-471		0.0130	pCi/L		0.012	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	E,T,C	U-238 by AEA Total Cntg Error	WATER	LA-508-471		120	%		0.0	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	71-55-6	1,1,1-Trichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	79-34-5	1,1,2,2-Tetrachloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	79-00-5	1,1,2-Trichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-34-3	1,1-Dichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-35-4	1,1-Dichloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	107-06-2	1,2-Dichloroethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	540-59-0	1,2-Dichloroethene (cis & tran	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	78-87-5	1,2-Dichloropropane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	71-36-3	1-Butanol	WATER	LA-523-455	U	< 10.0	ug/L	1.00	10	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	78-93-3	2-Butanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	591-78-6	2-Hexanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	107-87-9	2-Pentanone	WATER	LA-523-455	U	< 1.00	ug/L		2.3	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	108-10-1	4-Methyl-2-pentanone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	67-64-1	Acetone	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	71-43-2	Benzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-27-4	Bromodichloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-25-2	Bromoform	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	74-83-9	Bromomethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-15-0	Carbon Disulfide	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	56-23-5	Carbon Tetrachloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03

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Report W004/ver. 5.1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4

Group #: WSCF20030361

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000121	B16LD9	200-PW-2&4	TRENT	108-90-7	Chlorobenzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-00-3	Chloroethane	WATER	LA-523-455	U	< 1.00	ug/L		0.80	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	67-66-3	Chloroform	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	74-87-3	Chloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	124-48-1	Dibromochloromethane	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	100-41-4	Ethylbenzene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-09-2	Methylene Chloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	100-42-5	Styrene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	127-18-4	Tetrachloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	108-88-3	Toluene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	1330-20-7	Total Xylenes	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	79-01-6	Trichloroethene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	75-01-4	Vinyl Chloride	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	10061-01-5	cis-1,3-Dichloropropene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	104-51-8	n-Butylbenzene	WATER	LA-523-455	U	< 1.00	ug/L		1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	156-60-5	trans-1,2-Dichloroethylene	WATER	LA-523-455	U	< 1.00	ug/L		1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	10061-02-6	trans-1,3-Dichloropropene	WATER	LA-523-455	U	< 1.00	ug/L	1.00	1.0	04/01/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	8008-20-6	Kerosene	WATER	NWTPH	U	< 290	ug/L	1.00	2.9e+02	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	68476-34-6	Total Pet. Hydrocarbons Diesel	WATER	NWTPH	U	< 290	ug/L	1.00	2.9e+02	03/31/03	03/19/03	03/19/03
W030000121	B16LD9	200-PW-2&4	TRENT	84-15-1	ortho-Terphenyl	WATER	NWTPH		490	ug/L	1.00	12	03/31/03	03/19/03	03/19/03

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WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-007

Group #: WSCF20030361

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Ammonia-N: A small amount of ammonia-N was detected in W030000121. The amount found is less than that of the lowest calibration level. Also, the sample was not preserved with sulfuric acid. With an unpreserved sample, the analytical holding time is 48 hours instead of 28 days. Therefore, the analytical holding time for the sample was missed and the result may be biased low. W030000121 for U ISO test had poor RPD. RPD does not apply to low level samples.lmh Sample W030000121 for PU/AM test had poor RPD. RPD is not applicable to low level samples.lmh Radium-226, 228 results for the sample W030000121 have poor RPD. However, the Ra226 and Ra228 activities present in the sample are negligible with large counting error. In such a situation, The RPD criterion does not apply. ICP-AES: Boron not detected but this is an estimated value due to the very low recoveries for the matrix spikes -wwb All other QC within limits. ldl

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

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Attention:
Project Number :

Group #: 20030361

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units

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-265-403	LA-265-403: Hexavalent Chromium analysis by Spectrophotometer	
	EPA SW-846 7196	HEXAVALENT CHROMIUM
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-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE	
	None	No reference to any industry method.
LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY	
	EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)
	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

WSCF
METHOD REFERENCES REPORT

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	EPA SW-846 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	NWTPH-Diesel and/or Gasoline	
	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 http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

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W13q Worklist/Batch/QC Report for Group# WSCF20030361

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
18953	2	19347	21979	BLANK		Anions by Ion Chromatography
18953	9	19347	21979	BLANK		Anions by Ion Chromatography
18953	3	19347	21979	LCS		Anions by Ion Chromatography
18953	5	19347	21979	DUP	W030000121	Anions by Ion Chromatography
18953	6	19347	21979	MS	W030000121	Anions by Ion Chromatography
18953	7	19347	21979	MSD	W030000121	Anions by Ion Chromatography
18953	4	19347	21979	SAMPLE	W030000121	Anions by Ion Chromatography
18960	2	19354	21990	BLANK		Hexavalent chromium
18960	3	19354	21990	LCS		Hexavalent chromium
18960	5	19354	21990	DUP	W030000121	Hexavalent chromium
18960	6	19354	21990	MS	W030000121	Hexavalent chromium
18960	7	19354	21990	MSD	W030000121	Hexavalent chromium
18960	4	19354	21990	SAMPLE	W030000121	Hexavalent chromium
18960	7	19354	21990	SPK-RPD	W030000121	Hexavalent chromium
18983	1	19377	22035	SAMPLE	W030000121	Gamma Energy Analysis-grd H2O
19021	3	19417	22048	LCS		Ammonia (N) by IC
19021	5	19417	22048	DUP	W030000121	Ammonia (N) by IC
19021	6	19417	22048	MS	W030000121	Ammonia (N) by IC
19021	7	19417	22048	MSD	W030000121	Ammonia (N) by IC
19021	4	19417	22048	SAMPLE	W030000121	Ammonia (N) by IC
19019	1	19415	22062	BLANK		Uranium Isotopics by AEA
19019	2	19415	22062	LCS		Uranium Isotopics by AEA
19019	3	19415	22062	DUP	W030000121	Uranium Isotopics by AEA
19019	4	19415	22062	SAMPLE	W030000121	Uranium Isotopics by AEA
			22076	BLANK		Cyanide by Midi/Spectrophotom
			22076	BLNK-PREP		Cyanide by Midi/Spectrophotom
			22076	DUP		Cyanide by Midi/Spectrophotom
			22076	LCS		Cyanide by Midi/Spectrophotom
			22076	LCS-2		Cyanide by Midi/Spectrophotom
			22076	MS	W030000121	Cyanide by Midi/Spectrophotom
			22076	MSD	W030000121	Cyanide by Midi/Spectrophotom
			22076	SAMPLE	W030000121	Cyanide by Midi/Spectrophotom
			22076	SPK-RPD	W030000121	Cyanide by Midi/Spectrophotom
			22078	BLANK		SW-846 8270B Semi-Vols
			22078	LCS		SW-846 8270B Semi-Vols
			22078	MS	W030000121	SW-846 8270B Semi-Vols
			22078	MSD	W030000121	SW-846 8270B Semi-Vols
			22078	SAMPLE	W030000121	SW-846 8270B Semi-Vols
			22078	SPK-RPD	W030000121	SW-846 8270B Semi-Vols
			22078	SURR	W030000121	SW-846 8270B Semi-Vols
19026	1	19421	22093	BLANK		Americium by AEA
19026	2	19421	22093	LCS		Americium by AEA
19026	3	19421	22093	DUP	W030000121	Americium by AEA
19026	4	19421	22093	SAMPLE	W030000121	Americium by AEA
19027	1	19420	22094	BLANK		Plutonium Isotopics by AEA
19027	2	19420	22094	LCS		Plutonium Isotopics by AEA

19027	3	19420	22094	DUP	W030000121	Plutonium Isotopics by AEA
19027	4	19420	22094	SAMPLE	W030000121	Plutonium Isotopics by AEA
			22155	BLANK		WTPH-D TPH Diesel Range (Wa)
			22155	LCS		WTPH-D TPH Diesel Range (Wa)
			22155	MS	W030000121	WTPH-D TPH Diesel Range (Wa)
			22155	MSD	W030000121	WTPH-D TPH Diesel Range (Wa)
			22155	SAMPLE	W030000121	WTPH-D TPH Diesel Range (Wa)
			22155	SPK-RPD	W030000121	WTPH-D TPH Diesel Range (Wa)
			22155	SURR	W030000121	WTPH-D TPH Diesel Range (Wa)
			22156	BLANK		PCBs complete list
			22156	LCS		PCBs complete list
			22156	MS	W030000121	PCBs complete list
			22156	MSD	W030000121	PCBs complete list
			22156	SAMPLE	W030000121	PCBs complete list
			22156	SPK-RPD	W030000121	PCBs complete list
			22156	SURR	W030000121	PCBs complete list
19126	1	19520	22164	BLANK		ICP Metals Analysis, Grd H20 P
19126	2	19520	22164	LCS		ICP Metals Analysis, Grd H20 P
19126	4	19520	22164	MS	W030000121	ICP Metals Analysis, Grd H20 P
19126	5	19520	22164	MSD	W030000121	ICP Metals Analysis, Grd H20 P
19126	3	19520	22164	SAMPLE	W030000121	ICP Metals Analysis, Grd H20 P
19126	0	19520	22164	SPK-RPD	W030000121	ICP Metals Analysis, Grd H20 P
19176	1	19571	22227	BLANK		NWTPH-GX TPH Gasoline Range
19176	2	19571	22227	LCS		NWTPH-GX TPH Gasoline Range
19176	3	19571	22227	LCS-DUP		NWTPH-GX TPH Gasoline Range
19176	3	19571	22227	LCS-RPD		NWTPH-GX TPH Gasoline Range
19176	6	19571	22227	DUP	W030000121	NWTPH-GX TPH Gasoline Range
19176	7	19571	22227	MS	W030000121	NWTPH-GX TPH Gasoline Range
19176	8	19571	22227	MSD	W030000121	NWTPH-GX TPH Gasoline Range
19176	5	19571	22227	SAMPLE	W030000121	NWTPH-GX TPH Gasoline Range
19176	8	19571	22227	SPK-RPD	W030000121	NWTPH-GX TPH Gasoline Range
19181	1	19575	22228	BLANK		Alcohols, Glycols - 8015
19181	2	19575	22228	LCS		Alcohols, Glycols - 8015
19181	4	19575	22228	DUP	W030000121	Alcohols, Glycols - 8015
19181	5	19575	22228	MS	W030000121	Alcohols, Glycols - 8015
19181	6	19575	22228	MSD	W030000121	Alcohols, Glycols - 8015
19181	3	19575	22228	SAMPLE	W030000121	Alcohols, Glycols - 8015
19181	6	19575	22228	SPK-RPD	W030000121	Alcohols, Glycols - 8015
			22230	BLANK		VOA Ground Water Protection
			22230	LCS		VOA Ground Water Protection
			22230	MS	W030000121	VOA Ground Water Protection
			22230	MSD	W030000121	VOA Ground Water Protection
			22230	SAMPLE	W030000121	VOA Ground Water Protection
			22230	SPK-RPD	W030000121	VOA Ground Water Protection
			22230	SURR	W030000121	VOA Ground Water Protection
19088	2	19482	22263	BLANK		Ra-226 by AEA and GEA
19088	4	19482	22263	LCS		Ra-226 by AEA and GEA
19088	6	19482	22263	DUP	W030000121	Ra-226 by AEA and GEA
19088	7	19482	22263	SAMPLE	W030000121	Ra-226 by AEA and GEA
19088	1	19482	22263	BLANK		Ra-228 by GEA
19088	3	19482	22263	LCS		Ra-228 by GEA
19088	5	19482	22263	DUP	W030000121	Ra-228 by GEA
19088	8	19482	22263	SAMPLE	W030000121	Ra-228 by GEA

19427	1	19817	22514	BLANK		ICP-2008 MS All possible metal
19427	3	19817	22514	LCS		ICP-2008 MS All possible metal
19427	2	19817	22514	SAMPLE	W030000121	ICP-2008 MS All possible metal
19427	4	19817	22514	MS	W03D000020	ICP-2008 MS All possible metal
19427	5	19817	22514	MSD	W03D000020	ICP-2008 MS All possible metal
19597	1	19986	22703	BLANK		ICP Metals Analysis, Grd H20 P
19597	2	19986	22703	LCS		ICP Metals Analysis, Grd H20 P
19597	4	19986	22703	MS	W030000121	ICP Metals Analysis, Grd H20 P
19597	5	19986	22703	MSD	W030000121	ICP Metals Analysis, Grd H20 P
19126	3	19986	22703	SAMPLE	W030000121	ICP Metals Analysis, Grd H20 P
19597	7	19986	22703	MS	W030000498	ICP Metals Analysis, Grd H20 P
19597	8	19986	22703	MSD	W030000498	ICP Metals Analysis, Grd H20 P
19597	0	19986	22703	SPK-RPD	W030000498	ICP Metals Analysis, Grd H20 P

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Anions by Ion Chromatography

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Bromide (Br) by IC	24959-67-9	n/a	RPD	03/19/03	0.000	20.000
DUP	Chloride (Cl) by IC	16887-00-6	0.573	RPD	03/19/03	0.000	20.000
DUP	Fluoride (F) by IC	16984-48-8	n/a	RPD	03/19/03	0.000	20.000
DUP	Nitrite (N) by IC	NO2-N	n/a	RPD	03/19/03	0.000	20.000
DUP	Nitrate (N) by IC	NO3-N	n/a	RPD	03/19/03	0.000	20.000
DUP	Phosphate (P) by IC	14265-44-2	n/a	RPD	03/19/03	0.000	20.000
DUP	Sulfate (SO4) by IC	14808-79-8	n/a	RPD	03/19/03	0.000	20.000
MS	Bromide (Br) by IC	24959-67-9	94.388	% Recov	03/19/03	75.000	125.000
MS	Chloride (Cl) by IC	16887-00-6	101.218	% Recov	03/19/03	75.000	125.000
MS	Fluoride (F) by IC	16984-48-8	103.400	% Recov	03/19/03	75.000	125.000
MS	Nitrite (N) by IC	NO2-N	101.190	% Recov	03/19/03	75.000	125.000
MS	Nitrate (N) by IC	NO3-N	96.000	% Recov	03/19/03	75.000	125.000
MS	Phosphate (P) by IC	14265-44-2	100.106	% Recov	03/19/03	75.000	125.000
MS	Sulfate (SO4) by IC	14808-79-8	100.000	% Recov	03/19/03	75.000	125.000
MSD	Bromide (Br) by IC	24959-67-9	99.490	% Recov	03/19/03	75.000	125.000
MSD	Chloride (Cl) by IC	16887-00-6	100.102	% Recov	03/19/03	75.000	125.000
MSD	Fluoride (F) by IC	16984-48-8	105.000	% Recov	03/19/03	75.000	125.000
MSD	Nitrite (N) by IC	NO2-N	99.405	% Recov	03/19/03	75.000	125.000
MSD	Nitrate (N) by IC	NO3-N	98.667	% Recov	03/19/03	75.000	125.000
MSD	Phosphate (P) by IC	14265-44-2	105.074	% Recov	03/19/03	75.000	125.000
MSD	Sulfate (SO4) by IC	14808-79-8	100.503	% Recov	03/19/03	75.000	125.000

BATCH QC

BLANK	Bromide (Br) by IC	24959-67-9	<4.50e-2	mg/L	03/19/03	0.000	300.000
BLANK	Bromide (Br) by IC	24959-67-9	<4.50e-2	mg/L	03/19/03	0.000	300.000
BLANK	Chloride (Cl) by IC	16887-00-6	<1.40e-2	mg/L	03/19/03	0.000	300.000
BLANK	Chloride (Cl) by IC	16887-00-6	<1.40e-2	mg/L	03/19/03	0.000	300.000
BLANK	Fluoride (F) by IC	16984-48-8	<7.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Fluoride (F) by IC	16984-48-8	<7.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Nitrite (N) by IC	NO2-N	<9.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Nitrite (N) by IC	NO2-N	<9.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Nitrate (N) by IC	NO3-N	<5.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Nitrate (N) by IC	NO3-N	<5.00e-3	mg/L	03/19/03	0.000	300.000
BLANK	Phosphate (P) by IC	14265-44-2	<1.30e-2	mg/L	03/19/03	0.000	300.000
BLANK	Phosphate (P) by IC	14265-44-2	<1.30e-2	mg/L	03/19/03	0.000	300.000
BLANK	Sulfate (SO4) by IC	14808-79-8	<2.40e-2	mg/L	03/19/03	0.000	300.000
BLANK	Sulfate (SO4) by IC	14808-79-8	<2.40e-2	mg/L	03/19/03	0.000	300.000
LCS	Bromide (Br) by IC	24959-67-9	96.709	% Recov	03/19/03	80.000	120.000
LCS	Chloride (Cl) by IC	16887-00-6	101.005	% Recov	03/19/03	80.000	120.000
LCS	Fluoride (F) by IC	16984-48-8	102.970	% Recov	03/19/03	80.000	120.000
LCS	Nitrite (N) by IC	NO2-N	102.941	% Recov	03/19/03	80.000	120.000
LCS	Nitrate (N) by IC	NO3-N	94.725	% Recov	03/19/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Anions by Ion Chromatography

SAF Number: F03-007
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
LCS	Phosphate (P) by IC	14265-44-2	103.141	% Recov	03/19/03	80.000	120.000
LCS	Sulfate (SO4) by IC	14808-79-8	98.005	% Recov	03/19/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Hexavalent chromium

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Hexavalent chromium	18540-29-9	n/a	RPD	03/20/03	0.000	15.000
MS	Hexavalent chromium	18540-29-9	95.000	% Recov	03/20/03	85.000	115.000
MSD	Hexavalent chromium	18540-29-9	100.000	% Recov	03/20/03	85.000	115.000
SPK-RPD	Hexavalent chromium	18540-29-9	5.128	RPD	03/20/03	0.000	20.000

BATCH QC

BLANK	Hexavalent chromium	18540-29-9	<0.002	Ratio	03/20/03	0.000	2.000
LCS	Hexavalent chromium	18540-29-9	95.300	%Recove	03/20/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Ammonia (N) by IC

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000121							
BATCH QC ASSOCIATED WITH SAMPLE							
DUP	Ammonia (N) by IC	7664-41-7	0.000	RPD	03/26/03	0.000	20.000
MS	Ammonia (N) by IC	7664-41-7	96.970	% Recov	03/26/03	75.000	125.000
MSD	Ammonia (N) by IC	7664-41-7	95.758	% Recov	03/26/03	75.000	125.000
BATCH QC							
LCS	Ammonia (N) by IC	7664-41-7	105.669	% Recov	03/26/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Uranium Isotopics by AEA

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
Lab ID: W030000121							
BATCH QC ASSOCIATED WITH SAMPLE							
DUP	U-238 by AEA	24678-82-8	20.690	RPD	03/31/03	0.000	20.000
BATCH QC							
BLANK	U-238 by AEA	24678-82-8	1.8e-02	pCi/L	03/31/03	-100.000	100.000
LCS	U-238 by AEA	24678-82-8	112.000	% Recov	03/31/03	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Cyanide by Midi/Spectrophotom

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Cyanide by Midi/Spectrophotom	57-12-5	88.400	% Recov	04/01/03	75.000	125.000
MSD	Cyanide by Midi/Spectrophotom	57-12-5	103.000	% Recov	04/01/03	75.000	125.000
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	15.256	Ratio	04/01/03	0.000	20.000

BATCH QC

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	-1.3	Ratio	04/01/03	-4.000	4.000
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	-0.9	Ratio	04/01/03	-4.000	4.000
DUP	Cyanide by Midi/Spectrophotom	57-12-5	n/a	Ratio	04/01/03	0.000	20.000
LCS	Cyanide by Midi/Spectrophotom	57-12-5	97.300	% Recov	04/01/03	85.000	115.000
LCS-2	Cyanide by Midi/Spectrophotom	57-12-5	n/a	% Recov	04/01/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	1,2,4-Trichlorobenzene	120-82-1	72.700	% Recov	03/31/03	50.000	120.000
MS	1,4-Dichlorobenzene (SV)	106-46-7	68.500	% Recov	03/31/03	41.000	113.000
MS	2,4-Dinitrotoluene	121-14-2	71.100	% Recov	03/31/03	65.000	109.000
MS	2-Fluorophenol Surr	367-12-4	81.900	% Recov	03/31/03	50.000	110.000
MS	Acenaphthene	83-32-9	84.500	% Recov	03/31/03	62.000	112.000
MS	4-Chloro-3-methylphenol	59-50-7	87.800	% Recov	03/31/03	59.000	115.000
MS	2-Chlorophenol	95-57-8	79.700	% Recov	03/31/03	69.000	111.000
MS	N-Nitroso-di-n-propylamine	621-64-7	99.200	% Recov	03/31/03	69.000	115.000
MS	2-Fluorobiphenyl Surr	321-60-8	83.100	% Recov	03/31/03	58.000	109.000
MS	Phenol	108-95-2	82.100	% Recov	03/31/03	59.000	115.000
MS	Nitrobenzene-d5 Surr	4165-60-0	85.800	% Recov	03/31/03	60.000	118.000
MS	4-Nitrophenol	100-02-7	75.200	% Recov	03/31/03	32.000	130.000
MS	Pentachlorophenol	87-86-5	76.600	% Recov	03/31/03	51.000	121.000
MS	Phenol-d5 Surr	4165-62-2	82.800	% Recov	03/31/03	59.000	116.000
MS	Pyrene	129-00-0	82.400	% Recov	03/31/03	58.000	116.000
MS	2,4,6-Tribromophenol Surr	118-79-6	85.700	% Recov	03/31/03	60.000	120.000
MS	Terphenyl-d14 Surr	98904-43-9	82.900	% Recov	03/31/03	60.000	120.000
MSD	1,2,4-Trichlorobenzene	120-82-1	80.200	% Recov	03/31/03	50.000	120.000
MSD	1,4-Dichlorobenzene (SV)	106-46-7	78.600	% Recov	03/31/03	41.000	113.000
MSD	2,4-Dinitrotoluene	121-14-2	77.500	% Recov	03/31/03	65.000	109.000
MSD	2-Fluorophenol Surr	367-12-4	86.200	% Recov	03/31/03	50.000	110.000
MSD	Acenaphthene	83-32-9	91.600	% Recov	03/31/03	62.000	112.000
MSD	4-Chloro-3-methylphenol	59-50-7	80.700	% Recov	03/31/03	59.000	115.000
MSD	2-Chlorophenol	95-57-8	83.900	% Recov	03/31/03	69.000	111.000
MSD	N-Nitroso-di-n-propylamine	621-64-7	104.000	% Recov	03/31/03	69.000	115.000
MSD	2-Fluorobiphenyl Surr	321-60-8	84.900	% Recov	03/31/03	58.000	109.000
MSD	Phenol	108-95-2	87.600	% Recov	03/31/03	59.000	115.000
MSD	Nitrobenzene-d5 Surr	4165-60-0	86.800	% Recov	03/31/03	60.000	118.000
MSD	4-Nitrophenol	100-02-7	78.200	% Recov	03/31/03	32.000	130.000
MSD	Pentachlorophenol	87-86-5	81.900	% Recov	03/31/03	51.000	121.000
MSD	Phenol-d5 Surr	4165-62-2	86.300	% Recov	03/31/03	59.000	116.000
MSD	Pyrene	129-00-0	89.500	% Recov	03/31/03	58.000	116.000
MSD	2,4,6-Tribromophenol Surr	118-79-6	88.700	% Recov	03/31/03	60.000	120.000
MSD	Terphenyl-d14 Surr	98904-43-9	86.700	% Recov	03/31/03	60.000	120.000
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	9.810	RPD	03/31/03	0.000	25.000
SPK-RPD	1,4-Dichlorobenzene (SV)	106-46-7	13.732	RPD	03/31/03	0.000	25.000
SPK-RPD	2,4-Dinitrotoluene	121-14-2	8.614	RPD	03/31/03	0.000	25.000
SPK-RPD	2-Fluorophenol Surr	367-12-4	105.250	% Recov	03/31/03	50.000	110.000
SPK-RPD	Acenaphthene	83-32-9	8.064	RPD	03/31/03	0.000	25.000
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	8.427	RPD	03/31/03	0.000	25.000
SPK-RPD	2-Chlorophenol	95-57-8	5.134	RPD	03/31/03	0.000	25.000
SPK-RPD	N-Nitroso-di-n-propylamine	621-64-7	4.724	RPD	03/31/03	0.000	25.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
SPK-RPD	2-Fluorobiphenyl Surr	321-60-8	102.166	% Recov	03/31/03	58.000	109.000
SPK-RPD	Phenol	108-95-2	6.482	RPD	03/31/03	0.000	16.000
SPK-RPD	Nitrobenzene-d5 Surr	4165-60-0	101.166	% Recov	03/31/03	80.000	118.000
SPK-RPD	4-Nitrophenol	100-02-7	3.911	RPD	03/31/03	0.000	25.000
SPK-RPD	Pentachlorophenol	87-86-5	6.688	RPD	03/31/03	0.000	25.000
SPK-RPD	Phenol-d5 Surr	4165-62-2	104.227	% Recov	03/31/03	59.000	116.000
SPK-RPD	Pyrene	129-00-0	8.261	RPD	03/31/03	0.000	25.000
SPK-RPD	2,4,6-Tribromophenol Surr	118-79-6	103.501	% Recov	03/31/03	60.000	120.000
SPK-RPD	Terphenyl-d14 Surr	98904-43-9	104.584	% Recov	03/31/03	60.000	120.000
SURR	2-Fluorophenol Surr	367-12-4	83.700	% Recov	03/31/03	50.000	110.000
SURR	2-Fluorobiphenyl Surr	321-60-8	74.200	% Recov	03/31/03	58.000	109.000
SURR	Nitrobenzene-d5 Surr	4165-60-0	84.300	% Recov	03/31/03	60.000	118.000
SURR	Phenol-d5 Surr	4165-62-2	83.800	% Recov	03/31/03	59.000	116.000
SURR	2,4,6-Tribromophenol Surr	118-79-6	77.000	% Recov	03/31/03	60.000	120.000
SURR	Terphenyl-d14 Surr	98904-43-9	85.500	% Recov	03/31/03	60.000	120.000

BATCH QC

BLANK	1,2-Dichlorobenzene (SV)	95-50-1	< 4.2	ug/L	03/31/03		
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 3.0	ug/L	03/31/03		
BLANK	1,3-Dichlorobenzene	541-73-1	< 5.2	ug/L	03/31/03		
BLANK	1,4-Dichlorobenzene (SV)	106-46-7	< 5.0	ug/L	03/31/03		
BLANK	2,4-Dichlorophenol	120-83-2	< 1.4	ug/L	03/31/03		
BLANK	2,4-Dinitrotoluene	121-14-2	< 1.8	ug/L	03/31/03		
BLANK	2,4,5-Trichlorophenol	95-95-4	< 1.9	ug/L	03/31/03		
BLANK	2,4,6-Trichlorophenol	88-06-2	< 2.4	ug/L	03/31/03		
BLANK	2,4-Dimethylphenol	105-67-9	< 4.3	ug/L	03/31/03		
BLANK	2,6-Dinitrotoluene	606-20-2	< 2.2	ug/L	03/31/03		
BLANK	2-Butoxyethanol	111-76-2	< 3.1	mg/L	03/31/03		
BLANK	2-Chloronaphthalene	91-58-7	< 2.3	ug/L	03/31/03		
BLANK	2-Fluorophenol Surr	367-12-4	80.400	% Recov	03/31/03	50.000	110.000
BLANK	2-Methylnaphthalene	91-57-6	< 1.9	ug/L	03/31/03		
BLANK	2-Methylphenol	95-48-7	< 2.3	ug/L	03/31/03		
BLANK	2-Nitroaniline	88-74-4	< 2.1	mg/L	03/31/03		
BLANK	2-Nitrophenol	88-75-5	< 2.0	ug/L	03/31/03		
BLANK	3 & 4 Methylphenol Total	108-39-4	< 3.2	ug/L	03/31/03	0.000	5.000
BLANK	3-Nitroaniline	99-09-2	< 4.5	mg/L	03/31/03		
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 1.7	ug/L	03/31/03		
BLANK	4-Bromophenyl-phenylether	101-55-3	< 1.9	ug/L	03/31/03		
BLANK	4-Chlorophenyl-phenylether	7005-72-3	< 2.2	ug/L	03/31/03		
BLANK	Acenaphthene	83-32-9	< 2.4	ug/L	03/31/03		
BLANK	Acenaphthylene	208-96-8	< 2.3	ug/L	03/31/03		
BLANK	Anthracene	120-12-7	< 2.0	ug/L	03/31/03		
BLANK	bis(-2-Chloroethyl)Eth	111-44-4	< 3.4	mg/L	03/31/03		
BLANK	Benzo(a)anthracene	56-55-3	< 2.1	ug/L	03/31/03		
BLANK	Benzo(b)fluoranthene	205-99-2	< 1.7	ug/L	03/31/03		
BLANK	Benzo(g,h,i)perylene	191-24-2	< 2.5	ug/L	03/31/03		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Benzo(a)pyrene	50-32-8	< 1.9	ug/L	03/31/03		
BLANK	bis(2-Chloroethoxy)methane	111-91-1	< 2.0	ug/L	03/31/03		
BLANK	Bis (2-Ethylhexyl) phthalate	117-81-7	< 2.6	mg/L	03/31/03		
BLANK	Bis(2-Chloro-1-methylene)	108-60-1	< 2.1	ug/L	03/31/03	0.000	10.000
BLANK	Benzo(k)fluoranthene	207-08-9	< 2.8	ug/L	03/31/03		
BLANK	Butylbenzylphthalate	85-68-7	< 2.0	mg/L	03/31/03		
BLANK	Carbazole	86-74-8	< 1.4	mg/L	03/31/03		
BLANK	4-Chloroaniline	106-47-8	< 7.2	mg/L	03/31/03		
BLANK	4-Chloro-3-methylphenol	59-50-7	< 1.3	ug/L	03/31/03		
BLANK	2-Chlorophenol	95-57-8	< 1.7	ug/L	03/31/03		
BLANK	Chrysene	218-01-9	< 2.3	ug/L	03/31/03		
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 4.1	ug/L	03/31/03		
BLANK	Dibenzo(a,h)anthracene	53-70-3	< 2.6	ug/L	03/31/03		
BLANK	Dibenzofuran	132-64-9	< 1.9	mg/L	03/31/03		
BLANK	Di-n-butylphthalate	84-74-2	< 2.1	mg/L	03/31/03		
BLANK	Diethylphthalate	84-66-2	< 6.3	mg/L	03/31/03		
BLANK	Dimethylphthalate	131-11-3	< 2.1	mg/L	03/31/03		
BLANK	2,4-Dinitrophenol	51-28-5	< 3.3	ug/L	03/31/03		
BLANK	Di-n-octylphthalate	117-84-0	< 2.5	mg/L	03/31/03		
BLANK	N-Nitroso-di-n-propylamine	621-64-7	< 1.7	ug/L	03/31/03		
BLANK	2-Fluorobiphenyl Surr	321-60-8	85.700	% Recov	03/31/03	58.000	109.000
BLANK	Fluorene	86-73-7	< 2.0	ug/L	03/31/03		
BLANK	Fluoranthene	206-44-0	< 2.1	ug/L	03/31/03		
BLANK	Hexachlorobenzene	118-74-1	< 2.1	ug/L	03/31/03		
BLANK	Hexachlorobutadiene	87-68-3	< 3.6	ug/L	03/31/03		
BLANK	Hexachlorocyclopentadiene	77-47-4	< 7.8	ug/L	03/31/03		
BLANK	Hexachloroethane	67-72-1	< 5.5	ug/L	03/31/03		
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 2.6	ug/L	03/31/03		
BLANK	Isophorone	78-59-1	< 1.9	mg/L	03/31/03		
BLANK	Phenol	108-95-2	< 1.7	ug/L	03/31/03		
BLANK	Naphthalene	91-20-3	< 2.4	ug/L	03/31/03		
BLANK	Nitrobenzene-d5 Surr	4165-60-0	86.400	% Recov	03/31/03	60.000	118.000
BLANK	Nitrobenzene	98-95-3	< 2.0	ug/L	03/31/03		
BLANK	4-Nitrophenol	100-02-7	< 1.4	ug/L	03/31/03		
BLANK	4-Nitroaniline	100-01-6	< 2.9	mg/L	03/31/03		
BLANK	N-Nitrosodiphenylamine	86-30-6	< 2.3	ug/L	03/31/03		
BLANK	Pentachlorophenol	87-86-5	< 1.7	ug/L	03/31/03		
BLANK	Phenanthrene	85-01-8	< 2.2	ug/L	03/31/03		
BLANK	Phenol-d5 Surr	4165-62-2	92.100	% Recov	03/31/03	59.000	116.000
BLANK	Pyrene	129-00-0	< 2.1	ug/L	03/31/03		
BLANK	Tri-n-butylphosphate	126-73-8	< 2.5	mg/L	03/31/03		
BLANK	2,4,6-Tribromophenol Surr	118-79-6	78.600	% Recov	03/31/03	60.000	120.000
BLANK	Terphenyl-d14 Surr	98904-43-9	87.100	% Recov	03/31/03	60.000	120.000
LCS	1,2,4-Trichlorobenzene	120-82-1	66.200	% Recov	03/31/03	46.000	107.000
LCS	1,4-Dichlorobenzene (SV)	106-46-7	62.500	% Recov	03/31/03	42.000	111.000
LCS	2,4-Dinitrotoluene	121-14-2	66.800	% Recov	03/31/03	59.000	106.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
LCS	2-Fluorophenol Surr	367-12-4	82.000	% Recov	03/31/03	50.000	110.000
LCS	Acenaphthene	83-32-9	80.100	% Recov	03/31/03	61.000	116.000
LCS	4-Chloro-3-methylphenol	59-50-7	78.500	% Recov	03/31/03	61.000	106.000
LCS	2-Chlorophenol	95-57-8	79.400	% Recov	03/31/03	66.000	106.000
LCS	N-Nitroso-di-n-propylamine	621-64-7	79.300	% Recov	03/31/03	71.000	114.000
LCS	2-Fluorobiphenyl Surr	321-60-8	75.100	% Recov	03/31/03	58.000	109.000
LCS	Phenol	108-95-2	82.200	% Recov	03/31/03	67.000	105.000
LCS	Nitrobenzene-d5 Surr	4165-60-0	83.400	% Recov	03/31/03	60.000	118.000
LCS	4-Nitrophenol	100-02-7	69.900	% Recov	03/31/03	32.000	118.000
LCS	Pentachlorophenol	87-86-5	69.700	% Recov	03/31/03	62.000	114.000
LCS	Phenol-d5 Surr	4165-62-2	82.000	% Recov	03/31/03	59.000	116.000
LCS	Pyrene	129-00-0	82.300	% Recov	03/31/03	66.000	118.000
LCS	2,4,6-Tribromophenol Surr	118-79-6	80.600	% Recov	03/31/03	60.000	120.000
LCS	Terphenyl-d14 Surr	98904-43-9	81.300	% Recov	03/31/03	60.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Americium by AEA

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
Lab ID: W030000121								
BATCH QC ASSOCIATED WITH SAMPLE								
DUP	Am-241 by AEA	14596-10-2	151.648	RPD	04/02/03	0.000	20.000	*
BATCH QC								
BLANK	Am-241 by AEA	14596-10-2	4.6e-03	pCi/L	04/02/03	-100.000	100.000	
LCS	Am-241 by AEA	14596-10-2	82.000	% Recov	04/02/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Plutonium Isotopics by AEA

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
DUP	Pu-239/240 by AEA	PU-239/240	383.333	RPD	04/01/03	0.000	20.000	*

BATCH QC

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Pu-239/240 by AEA	PU-239/240	1.4e-02	pCi/L	04/01/03	-100.000	100.000
LCS	Pu-239/240 by AEA	PU-239/240	94.000	% Recov	04/01/03	75.000	125.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Kerosene	8008-20-6	93.900	%Recove	03/31/03	70.000	130.000
MS	ortho-Terphenyl	84-15-1	88.700	% Recov	03/31/03	70.000	130.000
MSD	Kerosene	8008-20-6	92.200	%Recove	03/31/03	70.000	130.000
MSD	ortho-Terphenyl	84-15-1	85.800	% Recov	03/31/03	70.000	130.000
SPK-RPD	ortho-Terphenyl	84-15-1	3.324	RPD	03/31/03	0.000	20.000
SURR	ortho-Terphenyl	84-15-1	82.900	% Recov	03/31/03	70.000	130.000

BATCH QC

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Kerosene	8008-20-6	< 250	ug/L	03/31/03	-999.000	999.000
BLANK	ortho-Terphenyl	84-15-1	432.88	% Recov	03/31/03	70.000	130.000
BLANK	Total Pet. Hydrocarbons Diesel	68476-34-6	< 250	mg/L	03/31/03	0.000	300.000
LCS	ortho-Terphenyl	84-15-1	105.000	% Recov	03/31/03	70.000	130.000
LCS	Total Pet. Hydrocarbons Diesel	68476-34-6	91.800	% Recov	03/31/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: PCBs complete list

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte		CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Aroclor-1254		11097-69-1	95.800	% Recov	03/31/03	75.000	125.000
MS	Decachlorobiphenyl	Surr	2051-24-3	85.500	% Recov	03/31/03	50.000	150.000
MS	Tetrachloro-m-xylene	Surr	877-09-8	92.500	% Recov	03/31/03	50.000	150.000
MSD	Aroclor-1254		11097-69-1	93.800	% Recov	03/31/03	75.000	125.000
MSD	Decachlorobiphenyl	Surr	2051-24-3	99.000	% Recov	03/31/03	50.000	150.000
MSD	Tetrachloro-m-xylene	Surr	877-09-8	105.000	% Recov	03/31/03	50.000	150.000
SPK-RPD	Aroclor-1254		11097-69-1	2.110	RPD	03/31/03	0.000	25.000
SPK-RPD	Decachlorobiphenyl	Surr	2051-24-3	14.634	RPD	03/31/03	0.000	20.000
SPK-RPD	Tetrachloro-m-xylene	Surr	877-09-8	12.658	RPD	03/31/03	0.000	20.000
SURR	Decachlorobiphenyl	Surr	2051-24-3	103.000	% Recov	03/31/03	50.000	150.000
SURR	Tetrachloro-m-xylene	Surr	877-09-8	86.800	% Recov	03/31/03	50.000	150.000

BATCH QC

BLANK	Aroclor-1016		12674-11-2	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1221		11104-28-2	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1232		11141-16-5	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1242		53469-21-9	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1248		12672-29-6	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1254		11097-69-1	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1260		11096-82-5	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1262		37324-23-5	< 0.10	ug/L	03/31/03		
BLANK	Aroclor-1268		11100-14-4	< 0.10	ug/L	03/31/03		
BLANK	Decachlorobiphenyl	Surr	2051-24-3	96.700	% Recov	03/31/03	50.000	150.000
BLANK	Tetrachloro-m-xylene	Surr	877-09-8	95.600	% Recov	03/31/03	50.000	150.000
LCS	Aroclor-1254		11097-69-1	89.100	% Recov	03/31/03	70.000	130.000
LCS	Decachlorobiphenyl	Surr	2051-24-3	105.000	% Recov	03/31/03	50.000	150.000
LCS	Tetrachloro-m-xylene	Surr	877-09-8	97.300	% Recov	03/31/03	50.000	150.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Silver by ICP	7440-22-4	90.400	% Recov	04/10/03	70.000	130.000
MS	Arsenic by ICP	7440-38-2	100.400	% Recov	04/10/03	75.000	125.000
MS	Barium by ICP	7440-39-3	98.000	% Recov	04/10/03	75.000	125.000
MS	Beryllium by ICP	7440-41-7	107.200	% Recov	04/10/03	75.000	125.000
MS	Bismuth by ICP	7440-69-9	99.200	% Recov	04/10/03	75.000	125.000
MS	Cadmium by ICP	7440-43-9	102.400	% Recov	04/10/03	75.000	125.000
MS	Chromium by ICP	7440-47-3	105.200	% Recov	04/10/03	75.000	125.000
MS	Copper by ICP	7440-50-8	105.000	% Recov	04/10/03	75.000	125.000
MS	Manganese by ICP	7439-96-5	102.400	% Recov	04/10/03	75.000	125.000
MS	Molybdenum by ICP	7439-98-7	94.860	% Recov	04/10/03	70.000	130.000
MS	Nickel by ICP	7440-02-0	100.400	% Recov	04/10/03	75.000	125.000
MS	Lead by ICP	7439-92-1	104.400	% Recov	04/10/03	75.000	125.000
MS	Antimony by ICP	7440-36-0	102.400	% Recov	04/10/03	75.000	125.000
MS	Selenium by ICP	7782-49-2	99.200	% Recov	04/10/03	75.000	125.000
MS	Tin by ICP	7440-31-5	94.960	% Recov	04/10/03	70.000	130.000
MS	Vanadium by ICP	7440-62-2	101.800	% Recov	04/10/03	75.000	125.000
MS	Zinc by ICP	7440-66-6	103.320	% Recov	04/10/03	75.000	125.000
MSD	Silver by ICP	7440-22-4	98.000	% Recov	04/10/03	75.000	125.000
MSD	Arsenic by ICP	7440-38-2	103.000	% Recov	04/10/03	75.000	125.000
MSD	Barium by ICP	7440-39-3	98.600	% Recov	04/10/03	75.000	125.000
MSD	Beryllium by ICP	7440-41-7	108.600	% Recov	04/10/03	75.000	125.000
MSD	Bismuth by ICP	7440-69-9	101.600	% Recov	04/10/03	75.000	125.000
MSD	Cadmium by ICP	7440-43-9	106.400	% Recov	04/10/03	75.000	125.000
MSD	Chromium by ICP	7440-47-3	107.200	% Recov	04/10/03	75.000	125.000
MSD	Copper by ICP	7440-50-8	105.600	% Recov	04/10/03	75.000	125.000
MSD	Manganese by ICP	7439-96-5	104.600	% Recov	04/10/03	75.000	125.000
MSD	Molybdenum by ICP	7439-98-7	100.660	% Recov	04/10/03	75.000	125.000
MSD	Nickel by ICP	7440-02-0	104.440	% Recov	04/10/03	75.000	125.000
MSD	Lead by ICP	7439-92-1	108.000	% Recov	04/10/03	75.000	125.000
MSD	Antimony by ICP	7440-36-0	105.420	% Recov	04/10/03	75.000	125.000
MSD	Selenium by ICP	7782-49-2	102.800	% Recov	04/10/03	75.000	125.000
MSD	Tin by ICP	7440-31-5	100.560	% Recov	04/10/03	75.000	125.000
MSD	Vanadium by ICP	7440-62-2	104.200	% Recov	04/10/03	75.000	125.000
MSD	Zinc by ICP	7440-66-6	105.460	% Recov	04/10/03	75.000	125.000
SPK-RPD	Silver by ICP	7440-22-4	8.088	RPD	04/10/03	0.000	20.000
SPK-RPD	Arsenic by ICP	7440-38-2	2.557	RPD	04/10/03	0.000	20.000
SPK-RPD	Barium by ICP	7440-39-3	0.610	RPD	04/10/03	0.000	20.000
SPK-RPD	Beryllium by ICP	7440-41-7	1.297	RPD	04/10/03	0.000	20.000
SPK-RPD	Bismuth by ICP	7440-69-9	2.390	RPD	04/10/03	0.000	20.000
SPK-RPD	Cadmium by ICP	7440-43-9	3.831	RPD	04/10/03	0.000	20.000
SPK-RPD	Chromium by ICP	7440-47-3	1.883	RPD	04/10/03	0.000	20.000
SPK-RPD	Copper by ICP	7440-50-8	0.570	RPD	04/10/03	0.000	20.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
SPK-RPD	Manganese by ICP	7439-96-5	2.126	RPD	04/10/03	0.000	20.000
SPK-RPD	Molybdenum by ICP	7439-98-7	5.933	RPD	04/10/03	0.000	20.000
SPK-RPD	Nickel by ICP	7440-02-0	3.945	RPD	04/10/03	0.000	20.000
SPK-RPD	Lead by ICP	7439-92-1	3.390	RPD	04/10/03	0.000	20.000
SPK-RPD	Antimony by ICP	7440-36-0	2.906	RPD	04/10/03	0.000	20.000
SPK-RPD	Selenium by ICP	7782-49-2	3.564	RPD	04/10/03	0.000	20.000
SPK-RPD	Tin by ICP	7440-31-5	5.728	RPD	04/10/03	0.000	20.000
SPK-RPD	Vanadium by ICP	7440-62-2	2.330	RPD	04/10/03	0.000	20.000
SPK-RPD	Zinc by ICP	7440-66-6	2.050	RPD	04/10/03	0.000	20.000

BATCH QC

BLANK	Silver by ICP	7440-22-4	<3.5	ug/L	04/10/03	-4.000	4.000
BLANK	Arsenic by ICP	7440-38-2	<49	ug/L	04/10/03	-69.000	69.000
BLANK	Barium by ICP	7440-39-3	<2.8	% Recov	04/10/03	75.000	125.000
BLANK	Beryllium by ICP	7440-41-7	<2.4	Ratio	04/10/03	-4.000	4.000
BLANK	Bismuth by ICP	7440-69-9	<0e0	Ratio	04/10/03	-6.000	6.000
BLANK	Cadmium by ICP	7440-43-9	<2.3	% Recov	04/10/03	75.000	125.000
BLANK	Chromium by ICP	7440-47-3	<7.3	% Recov	04/10/03	75.000	125.000
BLANK	Copper by ICP	7440-50-8	<4.8	ug/L	04/10/03	-4.000	4.000
BLANK	Manganese by ICP	7439-96-5	<2.7	% Recov	04/10/03	75.000	125.000
BLANK	Molybdenum by ICP	7439-98-7	<4	ug/L	04/10/03	0.000	1000.000
BLANK	Nickel by ICP	7440-02-0	<7.1	% Recov	04/10/03	75.000	125.000
BLANK	Lead by ICP	7439-92-1	<24	ug/L	04/10/03	-28.000	28.000
BLANK	Antimony by ICP	7440-36-0	<45	% Recov	04/10/03	75.000	125.000
BLANK	Selenium by ICP	7782-49-2	<86	ug/L	04/10/03	-130.000	130.000
BLANK	Tin by ICP	7440-31-5	<0.4	ug/L	04/10/03	0.000	1000.000
BLANK	Vanadium by ICP	7440-62-2	<7.3	ug/L	04/10/03	-8.000	8.000
BLANK	Zinc by ICP	7440-66-6	<6.9	ug/L	04/10/03	-6.000	6.000
LCS	Silver by ICP	7440-22-4	104.000	% Recov	04/10/03	75.000	125.000
LCS	Arsenic by ICP	7440-38-2	100.000	% Recov	04/10/03	75.000	125.000
LCS	Barium by ICP	7440-39-3	103.000	% Recov	04/10/03	80.000	120.000
LCS	Beryllium by ICP	7440-41-7	106.000	% Recov	04/10/03	80.000	120.000
LCS	Bismuth by ICP	7440-69-9	98.100	% Recov	04/10/03	80.000	120.000
LCS	Cadmium by ICP	7440-43-9	102.000	% Recov	04/10/03	75.000	125.000
LCS	Chromium by ICP	7440-47-3	107.000	% Recov	04/10/03	75.000	125.000
LCS	Copper by ICP	7440-50-8	107.000	% Recov	04/10/03	75.000	125.000
LCS	Manganese by ICP	7439-96-5	104.000	% Recov	04/10/03	80.000	120.000
LCS	Molybdenum by ICP	7439-98-7	90.830	% Recov	04/10/03	85.000	115.000
LCS	Nickel by ICP	7440-02-0	99.460	% Recov	04/10/03	80.000	120.000
LCS	Lead by ICP	7439-92-1	101.000	% Recov	04/10/03	75.000	125.000
LCS	Antimony by ICP	7440-36-0	102.800	% Recov	04/10/03	80.000	120.000
LCS	Selenium by ICP	7782-49-2	98.500	% Recov	04/10/03	75.000	125.000
LCS	Tin by ICP	7440-31-5	89.100	% Recov	04/10/03	85.000	115.000
LCS	Vanadium by ICP	7440-62-2	101.000	% Recov	04/10/03	80.000	120.000
LCS	Zinc by ICP	7440-66-6	104.000	% Recov	04/10/03	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	Total Pet. Hydrocarbons Gas	TPH-G	n/a	RPD	04/01/03	0.000	20.000
MS	Total Pet. Hydrocarbons Gas	TPH-G	89.000	% Recov	04/01/03	75.000	125.000
MSD	Total Pet. Hydrocarbons Gas	TPH-G	91.000	% Recov	04/01/03	75.000	125.000
SPK-RPD	Total Pet. Hydrocarbons Gas	TPH-G	2.222	RPD	04/01/03	0.000	20.000

BATCH QC

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	Total Pet. Hydrocarbons Gas	TPH-G	<50	mg/L	04/01/03	0.000	300.000
LCS	Total Pet. Hydrocarbons Gas	TPH-G	90.000	%rec	04/01/03	80.000	120.000
LCS-DUP	Total Pet. Hydrocarbons Gas	TPH-G	91.000	%rec	04/01/03	80.000	120.000
LCS-RPD	Total Pet. Hydrocarbons Gas	TPH-G	1.105	RPD	04/01/03	0.000	20.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Alcohols, Glycols - 8015

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
DUP	2-Bromoethanol	540-51-2	2.020	rpd	04/02/03	0.000	25.000
DUP	Diethyl ether	60-29-7	n/a	RPD	04/02/03	0.000	25.000
DUP	Ethylene glycol	107-21-1	n/a	RPD	04/02/03	0.000	25.000
DUP	Methanol	67-56-1	n/a	RPD	04/02/03	0.000	25.000
MS	2-Bromoethanol	540-51-2	90.000	%Recove	04/02/03	70.000	125.000
MS	Diethyl ether	60-29-7	89.000	%Recove	04/02/03	75.000	125.000
MS	Ethylene glycol	107-21-1	81.000	%Recove	04/02/03	75.000	125.000
MS	Methanol	67-56-1	94.000	%Recove	04/02/03	75.000	125.000
MSD	2-Bromoethanol	540-51-2	95.000	%Recove	04/02/03	70.000	125.000
MSD	Diethyl ether	60-29-7	96.000	%Recove	04/02/03	75.000	125.000
MSD	Ethylene glycol	107-21-1	82.000	%Recove	04/02/03	75.000	125.000
MSD	Methanol	67-56-1	106.000	%Recove	04/02/03	75.000	125.000
SPK-RPD	2-Bromoethanol	540-51-2	5.405	RPD	04/02/03	0.000	20.000
SPK-RPD	Diethyl ether	60-29-7	7.568	RPD	04/02/03	0.000	20.000
SPK-RPD	Ethylene glycol	107-21-1	1.227	RPD	04/02/03	0.000	20.000
SPK-RPD	Methanol	67-56-1	12.000	RPD	04/02/03	0.000	20.000

BATCH QC

BLANK	2-Bromoethanol	540-51-2	103	ug/Kg	04/02/03	0.000	10.000
BLANK	Diethyl ether	60-29-7	<5000	ug/L	04/02/03	0.000	10.000
BLANK	Ethylene glycol	107-21-1	<5000	ug/L	04/02/03	0.000	5.000
BLANK	Methanol	67-56-1	<1000	ug/L	04/02/03	0.000	10.000
LCS	2-Bromoethanol	540-51-2	99.000	%Recove	04/02/03	70.000	130.000
LCS	Diethyl ether	60-29-7	97.000	%Recove	04/02/03	70.000	130.000
LCS	Ethylene glycol	107-21-1	83.000	%Recove	04/02/03	70.000	130.000
LCS	Methanol	67-56-1	104.000	%Recove	04/02/03	70.000	130.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: VOA Ground Water Protection

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

Lab ID: W030000121

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	1,1-Dichloroethene	75-35-4	88.000	% Recov	04/01/03	63.000	117.000
MS	Benzene	71-43-2	100.000	% Recov	04/01/03	75.000	129.000
MS	4-Bromofluorobenzene Surr	460-00-4	92.000	% Recov	04/01/03	84.000	116.000
MS	Chlorobenzene	108-90-7	100.000	% Recov	04/01/03	79.000	119.000
MS	1,2-Dichloroethane-d4 Surr	17060-07-0	114.000	% Recov	04/01/03	82.000	136.000
MS	Toluene-d8 Surr	2037-26-5	102.000	% Recov	04/01/03	89.000	119.000
MS	Toluene	108-88-3	92.000	% Recov	04/01/03	76.000	120.000
MS	Trichloroethene	79-01-6	104.000	% Recov	04/01/03	73.000	123.000
MSD	1,1-Dichloroethene	75-35-4	92.000	% Recov	04/01/03	63.000	117.000
MSD	Benzene	71-43-2	100.000	% Recov	04/01/03	75.000	129.000
MSD	4-Bromofluorobenzene Surr	460-00-4	90.000	% Recov	04/01/03	84.000	116.000
MSD	Chlorobenzene	108-90-7	92.000	% Recov	04/01/03	79.000	119.000
MSD	1,2-Dichloroethane-d4 Surr	17060-07-0	116.000	% Recov	04/01/03	82.000	136.000
MSD	Toluene-d8 Surr	2037-26-5	106.000	% Recov	04/01/03	89.000	119.000
MSD	Toluene	108-88-3	96.000	% Recov	04/01/03	76.000	120.000
MSD	Trichloroethene	79-01-6	100.000	% Recov	04/01/03	73.000	123.000
SPK-RPD	1,1-Dichloroethene	75-35-4	4.444	RPD	04/01/03	0.000	10.000
SPK-RPD	Benzene	71-43-2	0.000	RPD	04/01/03	0.000	10.000
SPK-RPD	Chlorobenzene	108-90-7	8.333	RPD	04/01/03	0.000	10.000
SPK-RPD	1,2-Dichloroethane-d4 Surr	17060-07-0	1.739	RPD	04/01/03	0.000	25.000
SPK-RPD	Toluene-d8 Surr	2037-26-5	3.846	RPD	04/01/03	0.000	25.000
SPK-RPD	Toluene	108-88-3	4.255	RPD	04/01/03	0.000	10.000
SPK-RPD	Trichloroethene	79-01-6	3.922	RPD	04/01/03	0.000	10.000
SURR	4-Bromofluorobenzene Surr	460-00-4	96.000	% Recov	04/01/03	84.000	116.000
SURR	1,2-Dichloroethane-d4 Surr	17060-07-0	114.000	% Recov	04/01/03	82.000	136.000
SURR	Toluene-d8 Surr	2037-26-5	104.000	% Recov	04/01/03	89.000	119.000

BATCH QC

BLANK	1,1-Dichloroethane	75-34-3	< 1.0	ug/L	04/01/03		
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	ug/L	04/01/03		
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	ug/L	04/01/03		
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	ug/L	04/01/03	0.000	5.000
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	ug/L	04/01/03		
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	ug/L	04/01/03		
BLANK	1,2-Dichloroethene (cis & tran	540-59-0	< 1.0	ug/L	04/01/03		
BLANK	1-Butanol	71-36-3	< 10	mg/L	04/01/03		
BLANK	2-Hexanone	591-78-6	< 1.0	mg/L	04/01/03		
BLANK	2-Pentanone	107-87-9	< 1.0	mg/L	04/01/03		
BLANK	4-Methyl-2-pentanone	108-10-1	< 1.0	mg/L	04/01/03		
BLANK	Acetone	67-64-1	< 1.0	mg/L	04/01/03		
BLANK	Bromodichloromethane	75-27-4	< 1.0	ug/L	04/01/03		
BLANK	Benzene	71-43-2	< 1.0	ug/L	04/01/03		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: VOA Ground Water Protection

SAF Number: F03-007
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BLANK	4-Bromofluorobenzene Surr	460-00-4	87.600	% Recov	04/01/03	84.000	116.000
BLANK	Bromoform	75-25-2	< 1.0	mg/L	04/01/03		
BLANK	n-Butylbenzene	104-51-8	< 1.0	ug/L	04/01/03		
BLANK	Carbon Disulfide	75-15-0	< 1.0	mg/L	04/01/03		
BLANK	Carbon Tetrachloride	56-23-5	< 1.0	mg/L	04/01/03		
BLANK	Dibromochloromethane	124-48-1	< 1.0	ug/L	04/01/03		
BLANK	Chloroform	67-66-3	< 1.0	mg/L	04/01/03		
BLANK	Chlorobenzene	108-90-7	< 1.0	ug/L	04/01/03		
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	ug/L	04/01/03		
BLANK	Chloroethane	75-00-3	< 1.0	ug/L	04/01/03		
BLANK	1,2-Dichloroethane-d4 Surr	17060-07-0	97.000	% Recov	04/01/03	82.000	136.000
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 1.0	ug/L	04/01/03		
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	ug/L	04/01/03		
BLANK	Ethylbenzene	100-41-4	< 1.0	ug/L	04/01/03		
BLANK	Bromomethane	74-83-9	< 1.0	ug/L	04/01/03		
BLANK	Chloromethane	74-87-3	< 1.0	ug/L	04/01/03		
BLANK	2-Butanone	78-93-3	< 1.0	mg/L	04/01/03		
BLANK	Methylene Chloride	75-09-2	< 1.0	ug/L	04/01/03		
BLANK	Tetrachloroethene	127-18-4	< 1.0	ug/L	04/01/03		
BLANK	Styrene	100-42-5	< 1.0	ug/L	04/01/03		
BLANK	Total Xylenes	1330-20-7	< 1.0	ug/L	04/01/03	0.000	5.000
BLANK	Toluene-d8 Surr	2037-26-5	103.000	% Recov	04/01/03	89.000	119.000
BLANK	Toluene	108-88-3	< 1.0	ug/L	04/01/03		
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	ug/L	04/01/03		
BLANK	Trichloroethene	79-01-6	< 1.0	ug/L	04/01/03		
BLANK	Vinyl Chloride	75-01-4	< 1.0	mg/L	04/01/03		
LCS	1,1-Dichloroethene	75-35-4	92.000	% Recov	04/01/03	70.000	130.000
LCS	Benzene	71-43-2	104.000	% Recov	04/01/03	70.000	130.000
LCS	4-Bromofluorobenzene Surr	460-00-4	90.000	% Recov	04/01/03	84.000	116.000
LCS	Chlorobenzene	108-90-7	104.000	% Recov	04/01/03	70.000	130.000
LCS	1,2-Dichloroethane-d4 Surr	17060-07-0	110.000	% Recov	04/01/03	82.000	136.000
LCS	Toluene-d8 Surr	2037-26-5	112.000	% Recov	04/01/03	89.000	119.000
LCS	Toluene	108-88-3	104.000	% Recov	04/01/03	70.000	130.000
LCS	Trichloroethene	79-01-6	96.000	% Recov	04/01/03	70.000	130.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Ra-226 by AEA and GEA

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
Lab ID: W030000121								
BATCH QC ASSOCIATED WITH SAMPLE								
DUP	Ra-226 by AEA	13982-63-3	152.941	RPD	04/22/03	0.000	20.000	*
BATCH QC								
BLANK	Ra-226 by AEA	13982-63-3	4E-03	pCi/L	04/22/03	0.000	1000.000	
LCS	Ra-226 by AEA	13982-63-3	97.400	% Recov	04/22/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: Ra-228 by GEA

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
Lab ID: W030000121								
BATCH QC ASSOCIATED WITH SAMPLE								
DUP	Ra-228 by GEA	15262-20-1	-238.095	RPD	04/22/03	0.000	20.000	*
BATCH QC								
BLANK	Ra-228 by GEA	15262-20-1	-3.2	mg/L	04/22/03	0.000	1000.000	*
LCS	Ra-228 by GEA	15262-20-1	114.600	% Recov	04/22/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: ICP-2008 MS All possible metal

SAF Number: F03-007
Sample Date: 05/07/03
Receive Date: 05/07/03

Lab ID: W03D000020
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
MS	Silver by ICP-MS	7440-22-4	101.000	% Recov	05/15/03	70.000	130.000
MS	Aluminum by ICP-MS	7429-90-5	101.500	% Recov	05/15/03	70.000	130.000
MS	Arsenic by ICP-MS	7440-38-2	99.750	% Recov	05/15/03	70.000	130.000
MS	Barium by ICP-MS	7440-39-3	99.750	% Recov	05/15/03	70.000	130.000
MS	Beryllium by ICP-MS	7440-41-7	96.000	% Recov	05/15/03	70.000	130.000
MS	Cadmium by ICP-MS	7440-43-9	99.250	% Recov	05/15/03	70.000	130.000
MS	Cobalt by ICP-MS	7440-48-4	96.500	% Recov	05/15/03	70.000	130.000
MS	Chromium by ICP-MS	7440-47-3	101.250	% Recov	05/15/03	70.000	130.000
MS	Copper by ICP-MS	7440-50-8	95.750	% Recov	05/15/03	70.000	130.000
MS	Mercury by ICP-MS	7439-97-6	106.500	% Recov	05/15/03	70.000	130.000
MS	Manganese by ICP-MS	7439-96-5	99.750	% Recov	05/15/03	70.000	130.000
MS	Molybdenum by ICP-MS	7439-98-7	105.250	% Recov	05/15/03	70.000	130.000
MS	Nickel by ICP-MS	7440-02-0	96.000	% Recov	05/15/03	70.000	130.000
MS	Lead by ICP-MS	7439-92-1	108.250	% Recov	05/15/03	70.000	130.000
MS	Antimony by ICP-MS	7440-36-0	117.500	% Recov	05/15/03	70.000	130.000
MS	Selenium by ICP-MS	7782-49-2	92.750	% Recov	05/15/03	70.000	130.000
MS	Thorium by ICP-MS	7440-29-1	114.000	% Recov	05/15/03	70.000	130.000
MS	Thallium by ICP-MS	7440-28-0	103.500	% Recov	05/15/03	70.000	130.000
MS	Uranium by ICP-MS	7440-61-1	111.000	% Recov	05/15/03	70.000	130.000
MS	Vanadium by ICP-MS	7440-62-2	104.000	% Recov	05/15/03	70.000	130.000
MS	Zinc by ICP-MS	7440-66-6	97.500	% Recov	05/15/03	70.000	130.000
MSD	Silver by ICP-MS	7440-22-4	102.250	% Recov	05/15/03	70.000	130.000
MSD	Aluminum by ICP-MS	7429-90-5	102.500	% Recov	05/15/03	70.000	130.000
MSD	Arsenic by ICP-MS	7440-38-2	100.250	% Recov	05/15/03	70.000	130.000
MSD	Barium by ICP-MS	7440-39-3	96.000	% Recov	05/15/03	70.000	130.000
MSD	Beryllium by ICP-MS	7440-41-7	92.000	% Recov	05/15/03	70.000	130.000
MSD	Cadmium by ICP-MS	7440-43-9	96.500	% Recov	05/15/03	70.000	130.000
MSD	Cobalt by ICP-MS	7440-48-4	92.500	% Recov	05/15/03	70.000	130.000
MSD	Chromium by ICP-MS	7440-47-3	98.000	% Recov	05/15/03	70.000	130.000
MSD	Copper by ICP-MS	7440-50-8	94.250	% Recov	05/15/03	70.000	130.000
MSD	Mercury by ICP-MS	7439-97-6	106.500	% Recov	05/15/03	70.000	130.000
MSD	Manganese by ICP-MS	7439-96-5	98.000	% Recov	05/15/03	70.000	130.000
MSD	Molybdenum by ICP-MS	7439-98-7	106.500	% Recov	05/15/03	70.000	130.000
MSD	Nickel by ICP-MS	7440-02-0	93.000	% Recov	05/15/03	70.000	130.000
MSD	Lead by ICP-MS	7439-92-1	106.250	% Recov	05/15/03	70.000	130.000
MSD	Antimony by ICP-MS	7440-36-0	112.500	% Recov	05/15/03	70.000	130.000
MSD	Selenium by ICP-MS	7782-49-2	91.500	% Recov	05/15/03	70.000	130.000
MSD	Thorium by ICP-MS	7440-29-1	112.500	% Recov	05/15/03	70.000	130.000
MSD	Thallium by ICP-MS	7440-28-0	102.750	% Recov	05/15/03	70.000	130.000
MSD	Uranium by ICP-MS	7440-61-1	107.750	% Recov	05/15/03	70.000	130.000
MSD	Vanadium by ICP-MS	7440-62-2	101.500	% Recov	05/15/03	70.000	130.000
MSD	Zinc by ICP-MS	7440-66-6	94.250	% Recov	05/15/03	70.000	130.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: ICP-2008 MS All possible metal

SAF Number: F03-007
Sample Date: 05/07/03
Receive Date: 05/07/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit
BATCH QC							
BLANK	Silver by ICP-MS	7440-22-4	0.288	ug/L	05/15/03	-0.440	0.440
BLANK	Aluminum by ICP-MS	7429-90-5	<13.8	ug/L	05/15/03	-24.200	24.200
BLANK	Arsenic by ICP-MS	7440-38-2	<0.375	ug/L	05/15/03	-0.660	0.660
BLANK	Barium by ICP-MS	7440-39-3	<0.250	ug/L	05/15/03	-0.440	0.440
BLANK	Beryllium by ICP-MS	7440-41-7	<0.375	ug/L	05/15/03	-0.660	0.660
BLANK	Cadmium by ICP-MS	7440-43-9	<0.125	ug/L	05/15/03	-0.220	0.220
BLANK	Cobalt by ICP-MS	7440-48-4	<0.250	ug/L	05/15/03	-0.440	0.440
BLANK	Chromium by ICP-MS	7440-47-3	0.643	ug/L	05/15/03	-0.660	0.660
BLANK	Copper by ICP-MS	7440-50-8	<0.625	ug/L	05/15/03	-1.100	1.100
BLANK	Mercury by ICP-MS	7439-97-6	<0.125	ug/L	05/15/03	-0.220	0.220
BLANK	Manganese by ICP-MS	7439-96-5	<0.375	ug/L	05/15/03	-0.660	0.660
BLANK	Molybdenum by ICP-MS	7439-98-7	<0.375	ug/L	05/15/03	-0.660	0.660
BLANK	Nickel by ICP-MS	7440-02-0	1.08	ug/L	05/15/03	-1.100	1.100
BLANK	Lead by ICP-MS	7439-92-1	<1.50	ug/L	05/15/03	-2.640	2.640
BLANK	Antimony by ICP-MS	7440-36-0	<0.625	ug/L	05/15/03	-1.100	1.100
BLANK	Selenium by ICP-MS	7782-49-2	<0.375	ug/L	05/15/03	-0.660	0.660
BLANK	Thorium by ICP-MS	7440-29-1	<0.250	ug/L	05/15/03	-0.440	0.440
BLANK	Thallium by ICP-MS	7440-28-0	<0.125	ug/L	05/15/03	-0.220	0.220
BLANK	Uranium by ICP-MS	7440-61-1	<0.125	ug/L	05/15/03	-0.220	0.220
BLANK	Vanadium by ICP-MS	7440-62-2	<0.500	ug/L	05/15/03	-0.880	0.880
BLANK	Zinc by ICP-MS	7440-66-6	<5.00	ug/L	05/15/03	-8.800	8.800
LCS	Silver by ICP-MS	7440-22-4	98.000	% Recov	05/15/03	85.000	115.000
LCS	Aluminum by ICP-MS	7429-90-5	102.500	% Recov	05/15/03	85.000	115.000
LCS	Arsenic by ICP-MS	7440-38-2	100.000	% Recov	05/15/03	85.000	115.000
LCS	Barium by ICP-MS	7440-39-3	101.500	% Recov	05/15/03	85.000	115.000
LCS	Beryllium by ICP-MS	7440-41-7	94.000	% Recov	05/15/03	85.000	115.000
LCS	Cadmium by ICP-MS	7440-43-9	97.000	% Recov	05/15/03	85.000	115.000
LCS	Cobalt by ICP-MS	7440-48-4	97.750	% Recov	05/15/03	85.000	115.000
LCS	Chromium by ICP-MS	7440-47-3	100.750	% Recov	05/15/03	85.000	115.000
LCS	Copper by ICP-MS	7440-50-8	98.500	% Recov	05/15/03	85.000	115.000
LCS	Mercury by ICP-MS	7439-97-6	109.500	% Recov	05/15/03	85.000	115.000
LCS	Manganese by ICP-MS	7439-96-5	99.500	% Recov	05/15/03	85.000	115.000
LCS	Molybdenum by ICP-MS	7439-98-7	100.000	% Recov	05/15/03	85.000	115.000
LCS	Nickel by ICP-MS	7440-02-0	101.000	% Recov	05/15/03	85.000	115.000
LCS	Lead by ICP-MS	7439-92-1	100.000	% Recov	05/15/03	85.000	115.000
LCS	Antimony by ICP-MS	7440-36-0	112.250	% Recov	05/15/03	85.000	115.000
LCS	Selenium by ICP-MS	7782-49-2	96.750	% Recov	05/15/03	85.000	115.000
LCS	Thorium by ICP-MS	7440-29-1	101.500	% Recov	05/15/03	85.000	115.000
LCS	Thallium by ICP-MS	7440-28-0	96.250	% Recov	05/15/03	85.000	115.000
LCS	Uranium by ICP-MS	7440-61-1	100.750	% Recov	05/15/03	85.000	115.000
LCS	Vanadium by ICP-MS	7440-62-2	99.250	% Recov	05/15/03	85.000	115.000
LCS	Zinc by ICP-MS	7440-66-6	99.250	% Recov	05/15/03	85.000	115.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20030361
Matrix: WATER
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-007
Sample Date: 03/19/03
Receive Date: 03/19/03

QC Type	Analyte	CAS #	Results	Units	Analysis Date	Lower Limit	Upper Limit	
Lab ID: W030000121								
BATCH QC ASSOCIATED WITH SAMPLE								
MS	Boron by ICP	7440-50-8	1.740	% Recov	06/09/03	70.000	130.000	*
MSD	Boron by ICP	7440-50-8	1.910	% Recov	06/09/03	75.000	125.000	*
Lab ID: W030000498								
BATCH QC ASSOCIATED WITH SAMPLE								
MS	Boron by ICP	7440-50-8	107.220	% Recov	06/09/03	70.000	130.000	
MSD	Boron by ICP	7440-50-8	102.220	% Recov	06/09/03	75.000	125.000	
SPK-RPD	Boron by ICP	7440-50-8	4.775	RPD	06/09/03	0.000	20.000	
BATCH QC								
BLANK	Boron by ICP	7440-50-8	<102	ug/L	06/09/03	-10.000	10.000	
LCS	Boron by ICP	7440-50-8	105.900	% Recov	06/09/03	85.000	115.000	

8F-000-SLF-03-016 R2

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 4 pages
Cover page not included

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

1100 04
5/29/03

ACKNOWLEDGMENT OF SAMPLES RECEIVED

change project
NB

Ground Water Protection Program
Richland, WA 99352
Attn: Steve Trent

Customer Code: GPP
PO#: 117504/ES20
Group#: 20030361
Project#: F03-007
Proj Mgr: STEVE TRENT
Phone: 373-5869

The following samples were received from you on 03/19/03. 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	Tests Scheduled	Matrix	Sample Date
W030000121	B16LD9	200-PW-2&4	TRENT Water	03/19/03
		@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32		
		@GEA-GPP @IC-30 @ICP-GPP @PCBGPP @RA22630 @RA22		
		@SVOCGPP @TPHD-WA @TPHG-WA @VOA-GPP CN-02 CR+6		
		NH4-IC		

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@8015GPP	Alcohols, Glycols - 8015
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@IC-30	Anions by Ion Chromatography
@ICP-GPP	ICP Metals Analysis, Grd H20 P
@PCBGPP	PCBs complete list
@RA22630	Ra-226 by AEA and GEA
@RA22830	Ra-228 by GEA
@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
CR+6	Hexavalent chromium
NH4-IC	Ammonia (N) by IC

FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F03-007-002	Page 1 of 2
Collector Johansen/Pfister/~~Hughes~~ HDL TMJ 3/19/03	Company Contact LC Hulstrom; Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 7N; Data Turnaround 30 Days
Project Designation 200-PW-2/200-PW-4 OU - QC Sampling	Sampling Location 200-PW-2	SAF No. F03-007	Air Quality ☐
Ice Chest No. GPP-03-011	Field Logbook No. HNF-N-325-1; COA 117504ES10	Method of Shipment Federal Express	
Shipped To Waste Sampling & Characterization	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	Cool 4C	Cool 4C	HNO3 to pH <2	Cool 4C	Cool 4C	HCl to pH <2 Cool 4C	HCl to pH <2 Cool 4C	NaOH to pH >= 12 Cool 4C	HNO3 to pH <2	HNO3 to pH <2
Type of Container	aGs*	aG	aG	aG	P	aG	aG	P	P	P
No. of Container(s)	3	4	2	4	1	2	2	1	1	1
Volume	40mL	1000mL	1000mL	1000mL	1000mL	1000mL	1000mL 40	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	PCBs - 8082	See item (4) in Special Instructions.	TPH-Diesel Range - WTPH-D	TPH-Gasoline Range - WTPH-G	Cyanide (Total) - 335.2	See item (5) in Special Instructions.	Americium-241

20030361

Sample No.	Matrix *	Sample Date	Sample Time										
B16LD9 - A/W03E000121	WATER	3-19-03	1000	X	X	X	X	X	X	X	X	X	X

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: TMJohansen/JMPfister/HDL FH	3/19/03 1250	Received By/Stored In: Victor Bms	3/19/03 12:50
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 report both kerosene and diesel range compounds from the WTPH-D analysis.

(1) Alcohols, Glycols, & Ketones - 8015 {1-Butanol, Diethyl ether, Ethylene glycol, Methanol}
(2) Semi-VOA - 8270A (TCL); Semi-VOA – 8270A (Add-On) {2-Butoxyethanol, Tributyl phosphate}
(3) Trace Elements ICP/MS - 200.8 (Complete) {Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Uranium}; Isotopic Uranium; ICP Metals - 6010A (Add-on) {Bismuth, Boron} AEA
(4) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; Cations (IC) - 300.7 {Nitrogen in ammonium}; Chromium Hex - 7196
(5) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Gamma Spec - Add-on {Cesium-134, Tin-126}

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

BHI-EE-011 (03/01/2002)

FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-007-002	Page 2 of 2
Collector Johansen/Pfister/~~Hughes~~ Pope THJ 3/19/03	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 7N; Data Turnaround 30 Days
Project Designation 200-PW-2/200-PW-4 OU - QC Sampling	Sampling Location 200-PW-2		SAF No. F03-007	Air Quality ☐
Ice Chest No. GRP-03-011	Field Logbook No. HNF-N-325-1	COA 117504ES10	Method of Shipment Federal Express	
Shipped To Waste Sampling & Characterization	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2									
Type of Container	P	P	P									
No. of Container(s)	1	1	2									
Volume	1000mL	1000mL	1000mL									
SAMPLE ANALYSIS	Isotopic Plutonium	Isotopic Uranium	Isotopic Radium (Radium-226, Radium-228)									

Sample No.	Matrix *	Sample Date	Sample Time										
B16LD9-A	WATER	3-19-03	1000	X	X	X							

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From FH	Date/Time 1250	Received By/Stored In	Date/Time 1250
Johansen/Johansen	3/19/03	Victor Bins	3/19/03
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 report both kerosene and diesel range compounds from the WTPH-D analysis.

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

BHI-EE-011 (03/01/2002)

F03-007-002 1

FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		~~F03-004-22~~	Page 1 of 1
Collector Fahlberg/Johansen/Thomas	Company Contact Steve Trent	Telephone No. 373-5869	Project Coordinator TRENT, SJ	Price Code 7N Air Quality ☐
Project Designation PW-2 MJ 3-19-03 200 Area Source Characterization ~~200-CS-1-OU~~ - QC Sampli	Sampling Location B8827		SAF No. MJ 3-19-03 ~~F03-004~~ F03-007	Data Turnaround 45 Days
Ice Chest No. SML-69	Field Logbook No. HNF-N-3251	COA 117504ES10 ~~117514ES10~~ MJ 3-19-03	Method of Shipment Federal Express	
Shipped To MJ 3-19-03 ~~EBERLINE SERVICES (Formerly TMA)~~ WSCF	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	HCl ~~or H2SO4~~ to pH <2 Coo	MJ 3-19-03								
Type of Container	aGs*									
No. of Container(s)	3									
Volume	40mL									
SAMPLE ANALYSIS	VOA - 8260A (TCL); ~~VOA - 8260A (Add-On) (1-Propanol, Ethanol)~~	MJ 3-19-03								

MJ 3-19-03

Sample No.	Matrix *	Sample Date	Sample Time										
~~B16HC0~~ B16LD9-A	WATER	3-19-03	1000	X									

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS	Matrix *
Relinquished By/Removed From	Date/Time 3-19-03 1035	Received By/Stored In	Date/Time 10:35 Victor T Sims 3/26/03		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
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		

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

BHI-EE-011 (03/01/2002)