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

0060717

FLUOR

Memorandum

T4180-03-SLF-047

To: S. J. Trent — Date: October 08, 2002

From: S. L. Fitzgerald, Manager, WSCF Analytical Services — Telephone: 373-7495

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

Subject: FINAL RESULTS FOR 200-PW-2/200-PW-4 OU– SAMPLE DELIVERY GROUP WSCF20031204 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 (WSCF20031204), the analytical results (Attachment 2) and the sample receipt information (Attachment 3).

slf/ddw

Attachments 3

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T4180-03-SLF-04

ATTACHMENT 1

NARRATIVE

Consisting of 3 pages
Cover page not included

Sample Delivery Group	**WSCF20031204**
Sample Matrix	**Water**
Sample Visual	**Clear**
SAF Number	**F03-007**
Data Deliverable	**Summary Report**

Introduction

One (1) water sample (B17HR4) from GPP was received at the WSCF Laboratory on September 2, 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 method.
- VOA's by EPA SW-846 Method 8260A. Analytical work was performed with no deviations to the approved procedure.
- 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 Ammonium by EPA SW-846 Method 300.0 and 300.7. Analytical work was performed with no deviations to the approved method for Ammonium, but a deviation was required for the Anions (see comments below).

- Percent Solids by EPA Method 160.3. Analytical work was performed with no deviations to the approved method.

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

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

Comments

PCB's – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-34 and 2-35 for QC details.

ICP-MS and ICP-AES Metals – 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, 2-31, 2-32, 2-33, and 2-43 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) 2-44, 2-45and 2-46 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) 2-21 2-22, 2-23, 2-24, 2-25, and 2-26 for QC details. Compounds listed on the tentatively identified peak report with an "N" qualifier have been identified with the program used to interpret the raw data.

Alcohols and Glycols – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-47 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) 2-27 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) 2-40 for details.

IC Anions – The client requested 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, 2-19 and 2-20 for QC details.

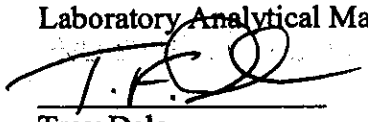
NH4 – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-17 for QC details.

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

CN – The hold time(s) for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GPP Letter of Instruction. See page(s) 2-28 for QC details.

RadChem – There are no hold times associated with these WDOE accredited 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) 2-29, 2-36, 2-37, 2-38, 2-39, 2-41, and 2-42 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
Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
TSS – Total Suspended Solids

T4180-03-SLF-04

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 47 pages
Cover page not included

WSCF
ANALYTICAL RESULTS REPORT

for

Ground Water Protection Program

Richland, WA 99352

Attention: Steve Trent

Analytical: _____

Client Services: _____

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

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

Contract#: F03-007
Report#: WSCF20031204
Report Date: 7-oct-2003
Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	57-12-5	Cyanide		LA-695-402	U	< 4.00	ug/L	1.00	4.0	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	NH4-N	Nitrogen in ammonium		LA-503-401	U	< 4.00e-03	mg/L	1.00	4.0e-03	09/03/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	60-29-7	Diethyl ether		Organics	U	< 5.00e+03	ug/L	1.00	5.0e+03	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	67-56-1	Methanol		Organics	U	< 1.00e+03	ug/L	1.00	1.0e+03	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	107-21-1	Ethylene glycol		Organics	U	< 5.00e+03	ug/L	1.00	5.0e+03	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14596-10-2	Americium-241		LA-508-471	U	0.0150	pCi/L	1.00	0.055	09/22/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Am-241 by AEA Total Cntg Error		LA-508-471		+- 0.0300	pCi/L	1.00	0.0	09/22/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	16984-48-8	Fluoride		LA-533-410	U	< 8.00e-03	mg/L	1.00	8.0e-03	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	16887-00-6	Chloride		LA-533-410	U	< 0.0300	mg/L	1.00	0.030	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	NO2-N	Nitrogen in Nitrite		LA-533-410	U	< 3.00e-03	mg/L	1.00	3.0e-03	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	NO3-N	Nitrogen in Nitrate		LA-533-410	U	< 3.00e-03	mg/L	1.00	3.0e-03	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14265-44-2	Phosphate		LA-533-410	U	< 0.0200	mg/L	1.00	0.020	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14808-79-8	Sulfate		LA-533-410	U	< 0.0300	mg/L	1.00	0.030	09/04/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	10198-40-0	Cobalt-60		LA-508-462	U	-1.55	pCi/L	1.00	6.1	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Co-60 Rel. Count Error (GEA)		LA-508-462		+- 3.49	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14234-35-6	Antimony-125		LA-508-462	U	16.9	pCi/L	1.00	22	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Sb-125 Rel. Count Error (GEA)		LA-508-462		+- 12.3	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13967-70-9	Cesium-134		LA-508-462	U	4.12	pCi/L	1.00	7.6	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Cs-134 Rel. Count Error (GEA)		LA-508-462		+- 4.00	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	10045-97-3	Cesium-137		LA-508-462	U	0.740	pCi/L	1.00	7.2	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Cs-137 Rel. Count Error (GEA)		LA-508-462		+- 4.03	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14683-23-9	Europium-152		LA-508-462	U	13.7	pCi/L	1.00	22	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Eu-152 Rel. Count Error (GEA)		LA-508-462		+- 12.4	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15585-10-1	Europium-154		LA-508-462	U	-8.46	pCi/L	1.00	18	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Eu-154 Rel. Count Error (GEA)		LA-508-462		+- 10.8	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14391-16-3	Europium-155		LA-508-462	U	-8.38	pCi/L	1.00	21	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Eu-155 Rel. Count Error (GEA)		LA-508-462		+- 12.6	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03

MDL=Minimum Detection Limit C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank 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 WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	15832-50-5	Tin-126		LA-508-462	U	-6.63	pCi/L	1.00	14	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Sn-126 Rel. Count Error (GEA)		LA-508-462		+- 9.22	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15262-20-1	Radium-228		LA-508-462	U	3.68	pCi/L	1.00	24	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ra-228 Rel. Count Error (GEA)		LA-508-462		+- 15.5	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13982-63-3	Radium-226		LA-508-462	U	-38.2	pCi/L	1.00	21	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ra-226 Rel. Count Error (GEA)		LA-508-462		+- 38.2	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13982-39-3	Zinc-65		LA-508-462	U	-14.2	pCi/L	1.00	13	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Zn-65 Rel. Count Error (GEA)		LA-508-462		+- 14.2	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14681-63-1	Niobium-94		LA-508-462	U	3.79	pCi/L	1.00	6.8	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Nb-94 Rel. Count Error (GEA)		LA-508-462		+- 3.68	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13968-53-1	Ruthenium-103		LA-508-462	U	1.54	pCi/L	1.00	9.5	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ru-103 Rel. Count Error (GEA)		LA-508-462		+- 5.54	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13967-48-1	Ruthenium-106		LA-508-462	U	-13.1	pCi/L	1.00	64	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ru-106 Rel. Count Error (GEA)		LA-508-462		+- 36.8	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13966-06-8	Tin-113		LA-508-462	U	-3.36	pCi/L	1.00	9.2	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Sn-113 Rel. Count Error (GEA)		LA-508-462		+- 5.51	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14762-78-8	Cerium-144		LA-508-462	U	-5.39	pCi/L	1.00	42	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ce-144 Rel. Count Error (GEA)		LA-508-462		+- 25.4	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14913-50-9	Thallium-208		LA-508-462	U	4.24	pCi/L	1.00	7.6	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Tl-208 Rel. Count Error (GEA)		LA-508-462		+- 4.28	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14913-49-6	Bismuth-212		LA-508-462	U	-5.61	pCi/L	1.00	53	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Bi-212 Rel. Count Error (GEA)		LA-508-462		+- 33.5	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15092-94-1	Lead-212		LA-508-462	U	-2.89	pCi/L	1.00	12	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Pb-212 Rel. Count Error (GEA)		LA-508-462		+- 7.25	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14733-03-0	Bismuth-214		LA-508-462	U	-38.2	pCi/L	1.00	21	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Bi-214 Rel. Count Error (GEA)		LA-508-462		+- 38.2	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15067-28-4	Lead-214		LA-508-462	U	-55.6	pCi/L	1.00	20	09/17/03	09/02/03	09/02/03

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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 #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ		Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	E,T,C	Pb-214 Rel. Count Error (GEA)		LA-508-462		+-	55.6	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14331-83-0	Actinium-228		LA-508-462	U		3.68	pCi/L	1.00	24	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Ac-228 Rel. Count Error (GEA)		LA-508-462		+-	15.5	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15065-10-8	Thorium-234		LA-508-462	U		-15.5	pCi/L	1.00	2.5e+02	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Th-234 Rel. Count Error (GEA)		LA-508-462		+-	143	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15117-96-1	Uranium-235		LA-508-462	U		15.0	pCi/L	1.00	47	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	U-235 Rel. Count Error (GEA)		LA-508-462		+-	27.4	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	14596-10-2	Americium-241		LA-508-462	U		-1.02	pCi/L	1.00	30	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	Am-241 Rel. Count Error (GEA)		LA-508-462		+-	10.2	pCi/L	1.00	0.0	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-69-9	Bismuth		LA-505-411	U	<	100	ug/L	1.00	1.0e+02	09/30/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-42-8	Boron		LA-505-411	U	<	102	ug/L	1.00	1.0e+02	09/30/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-36-0	Antimony		LA-505-412	U	<	0.500	ug/L	1.00	0.50	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-38-2	Arsenic		LA-505-412	U	<	0.300	ug/L	1.00	0.30	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-39-3	Barium		LA-505-412	U	<	0.200	ug/L	1.00	0.20	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-41-7	Beryllium		LA-505-412	U	<	0.300	ug/L	1.00	0.30	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-43-9	Cadmium		LA-505-412	U	<	0.100	ug/L	1.00	0.10	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-47-3	Chromium		LA-505-412	U	<	0.300	ug/L	1.00	0.30	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-50-8	Copper		LA-505-412	C		1.66	ug/L	1.00	0.50	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7439-92-1	Lead		LA-505-412	U	<	1.20	ug/L	1.00	1.2	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-02-0	Nickel		LA-505-412	U	<	0.500	ug/L	1.00	0.50	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7782-49-2	Selenium		LA-505-412	U	<	0.300	ug/L	1.00	0.30	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-22-4	Silver		LA-505-412	C		0.210	ug/L	1.00	0.20	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7440-61-1	Uranium		LA-505-412	U	<	0.100	ug/L	1.00	0.10	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	7439-97-6	Mercury		LA-505-412	U	<	0.100	ug/L	1.00	0.10	09/16/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	TPHGASOLINE	Total Pet. Hydrocarbons Gas		NWTPH	U	<	50.0	ug/L	1.00	50	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	12674-11-2	Aroclor-1016		LA-523-427	U	<	0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	11104-28-2	Aroclor-1221		LA-523-427	U	<	0.230	ug/L	1.00	0.23	09/17/03	09/02/03	09/02/03

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Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

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

Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W0300000787	B17HR4	GPP	11141-16-5	Aroclor-1232		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	53469-21-9	Aroclor-1242		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	12672-29-6	Aroclor-1248		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	11097-69-1	Aroclor-1254		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	11096-82-5	Aroclor-1260		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	37324-23-5	Aroclor-1262		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	11100-14-4	Aroclor-1268		LA-523-427	U	< 0.120	ug/L	1.00	0.12	09/17/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	13981-16-3	Plutonium-238		LA-508-471	U	-0.0410	pCi/L	1.00	0.17	09/23/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	E,T,C	Pu-238 by AEA Total Cntg Error		LA-508-471		+- 0.0902	pCi/L	1.00	0.0	09/23/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	PU-239/240	Pu-239/240 by AEA		LA-508-471	U	5.80e-03	pCi/L	1.00	0.043	09/23/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	E,T,C	Pu-239/240 AEA Total Cntg Err		LA-508-471		+- 0.0580	pCi/L	1.00	0.0	09/23/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	13982-63-3	Radium-226		LA-508-471	U	9.20e-03	pCi/L	1.00	0.043	09/25/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	E,T,C	Ra-226 Rel. Count Error (AEA)		LA-508-471		+- 0.0225	pCi/L	1.00	0.0	09/25/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	15262-20-1	Radium-228		LA-508-481	U	-0.570	pCi/L	1.00	4.0	09/25/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	E,T,C	Ra-228 Rel. Count Error (GEA)		LA-508-481		+- 2.31	pCi/L	1.00	0.0	09/25/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	100-02-7	4-Nitrophenol		LA-523-456	U	< 1.40	ug/L	1.00	1.4	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	106-46-7	1,4-Dichlorobenzene		LA-523-456	U	< 5.00	ug/L	*1.00	5.0	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	108-95-2	Phenol		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	120-82-1	1,2,4-Trichlorobenzene		LA-523-456	U	< 3.00	ug/L	1.00	3.0	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	121-14-2	2,4-Dinitrotoluene		LA-523-456	U	< 1.80	ug/L	1.00	1.8	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	129-00-0	Pyrene		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	59-50-7	4-Chloro-3-methylphenol		LA-523-456	U	< 1.30	ug/L	1.00	1.3	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	621-64-7	N-Nitrosodi-n-dipropylamine		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	83-32-9	Acenaphthene		LA-523-456	U	< 2.40	ug/L	1.00	2.4	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	87-86-5	Pentachlorophenol		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	95-57-8	2-Chlorophenol		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	100-01-6	4-Nitroaniline		LA-523-456	U	< 2.90	ug/L	1.00	2.9	09/08/03	09/02/03	09/02/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W0300000787	B17HR4	GPP	101-55-3	4-Bromophenylphenyl ether		LA-523-456	U	< 1.90	ug/L	1.00	1.9	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	105-67-9	2,4-Dimethylphenol		LA-523-456	U	< 4.30	ug/L	1.00	4.3	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	106-47-8	4-Chloroaniline		LA-523-456	U	< 7.20	ug/L	1.00	7.2	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	108-60-1	Bis(2-chloro-1-methylethyl)eth		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	111-44-4	Bis(2-chloroethyl) ether		LA-523-456	U	< 3.40	ug/L	1.00	3.4	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	111-91-1	Bis(2-Chloroethoxy)methane		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	117-81-7	Bis(2-ethylhexyl) phthalate		LA-523-456	U	< 2.60	ug/L	1.00	2.6	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	117-84-0	Di-n-octylphthalate		LA-523-456	U	< 2.50	ug/L	1.00	2.5	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	118-74-1	Hexachlorobenzene		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	120-12-7	Anthracene		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	120-83-2	2,4-Dichlorophenol		LA-523-456	U	< 1.40	ug/L	1.00	1.4	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	131-11-3	Dimethyl phthalate		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	132-64-9	Dibenzofuran		LA-523-456	U	< 1.90	ug/L	1.00	1.9	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	191-24-2	Benzo(ghi)perylene		LA-523-456	U	< 2.50	ug/L	1.00	2.5	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	193-39-5	Indeno(1,2,3-cd)pyrene		LA-523-456	U	< 2.60	ug/L	1.00	2.6	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	205-99-2	Benzo(b)fluoranthene		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	206-44-0	Fluoranthene		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	207-08-9	Benzo(k)fluoranthene		LA-523-456	U	< 2.80	ug/L	1.00	2.8	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	208-96-8	Acenaphthylene		LA-523-456	U	< 2.30	ug/L	1.00	2.3	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	218-01-9	Chrysene		LA-523-456	U	< 2.30	ug/L	1.00	2.3	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	50-32-8	Benzo(a)pyrene		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	51-28-5	2,4-Dinitrophenol		LA-523-456	U	< 3.30	ug/L	1.00	3.3	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	53-70-3	Dibenz[a,h]anthracene		LA-523-456	U	< 2.60	ug/L	1.00	2.6	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	534-52-1	4,6-Dinitro-2-methylphenol		LA-523-456	U	< 1.70	ug/L	1.00	1.7	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	541-73-1	1,3-Dichlorobenzene		LA-523-456	U	< 5.20	ug/L	1.00	5.2	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	56-55-3	Benzo(a)anthracene		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W0300000787	B17HR4	GPP	606-20-2	2,6-Dinitrotoluene		LA-523-456	U	< 2.20	ug/L	1.00	2.2	09/08/03	09/02/03	09/02/03

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Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	7005-72-3	4-Chlorophenylphenyl ether		LA-523-456	U	< 2.20	ug/L	1.00	2.2	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	77-47-4	Hexachlorocyclopentadiene		LA-523-456	U	< 7.80	ug/L	1.00	7.8	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	78-59-1	Isophorone		LA-523-456	U	< 1.90	ug/L	1.00	1.9	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	84-66-2	Diethylphthalate		LA-523-456	U	< 6.30	ug/L	1.00	6.3	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	84-74-2	Di-n-butylphthalate		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	85-01-8	Phenanthrene		LA-523-456	U	< 2.20	ug/L	1.00	2.2	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	85-68-7	Butylbenzylphthalate		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	86-30-6	N-Nitrosodiphenylamine		LA-523-456	U	< 2.30	ug/L	1.00	2.3	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	86-73-7	Fluorene		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	86-74-8	Carbazole		LA-523-456	U	< 1.40	ug/L	1.00	1.4	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	87-68-3	Hexachlorobutadiene		LA-523-456	U	< 3.60	ug/L	1.00	3.6	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	88-74-4	2-Nitroaniline		LA-523-456	U	< 2.10	ug/L	1.00	2.1	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	88-75-5	2-Nitrophenol		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	91-20-3	Naphthalene		LA-523-456	U	< 2.40	ug/L	1.00	2.4	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	91-57-6	2-Methylnaphthalene		LA-523-456	U	< 1.90	ug/L	1.00	1.9	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	91-58-7	2-Chloronaphthalene		LA-523-456	U	< 2.30	ug/L	1.00	2.3	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	91-94-1	3,3'-Dichlorobenzidine		LA-523-456	U	< 4.10	ug/L	*1.00	4.1	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	95-48-7	2-Methylphenol (cresol, o-)		LA-523-456	U	< 2.30	ug/L	1.00	2.3	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	95-50-1	1,2-Dichlorobenzene		LA-523-456	U	< 4.20	ug/L	1.00	4.2	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	95-95-4	2,4,5-Trichlorophenol		LA-523-456	U	< 1.90	ug/L	1.00	1.9	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	98-95-3	Nitrobenzene		LA-523-456	U	< 2.00	ug/L	1.00	2.0	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	99-09-2	3-Nitroaniline		LA-523-456	U	< 4.50	ug/L	1.00	4.5	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	65794-96-9	3 & 4 Methylphenol Total		LA-523-456	U	< 3.20	ug/L	1.00	3.2	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	67-72-1	Hexachloroethane		LA-523-456	U	< 5.50	ug/L	1.00	5.5	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	88-06-2	2,4,6-Trichlorophenol		LA-523-456	U	< 2.40	ug/L	1.00	2.4	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	100-51-6	Benzyl alcohol		LA-523-456	U	< 1.80	ug/L	1.00	1.8	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	111-76-2	2-Butoxyethanol		LA-523-456	U	< 3.10	ug/L	1.00	3.1	09/08/03	09/02/03	09/02/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	126-73-8	Tributyl phosphate		LA-523-456	U	< 2.50	ug/L	1.00	2.5	09/08/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	13966-29-5	Uranium-234		LA-505-412	U	< 0.100	ug/L	1.00	0.10	10/03/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15117-96-1	Uranium-235		LA-505-412	U	< 0.100	ug/L	1.00	0.10	10/03/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	U-238	Uranium-238		LA-505-412	U	< 0.100	ug/L	1.00	0.10	10/03/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	U-233/234	Uranium-233/234		LA-508-471		0.130	pCi/L	1.00	0.031	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	U-233/234 AEA Total Cntg Error		LA-508-471		+- 0.0585	pCi/L	1.00	0.0	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	15117-96-1	Uranium-235		LA-508-471		0.120	pCi/L	1.00	0.012	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	U-235 by AEA Total Cntg Error		LA-508-471		+- 0.0564	pCi/L	1.00	0.0	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	U-238	Uranium-238		LA-508-471		0.0550	pCi/L	1.00	0.011	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	E,T,C	U-238 by AEA Total Cntg Error		LA-508-471		+- 0.0336	pCi/L	1.00	0.0	09/10/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-35-4	1,1-Dichloroethene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	79-01-6	Trichloroethene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	71-43-2	Benzene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	108-88-3	Toluene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	108-90-7	Chlorobenzene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-34-3	1,1-Dichloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	100-41-4	Ethylbenzene		LA-523-455	U	< 1.00	ug/L	*1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	100-42-5	Styrene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	10061-01-5	cis-1,3-Dichloropropene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	10061-02-6	trans-1,3-Dichloropropene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	107-06-2	1,2-Dichloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	108-10-1	4-Methyl-2-Pentanone		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	124-48-1	Dibromochloromethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	127-18-4	Tetrachloroethene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	1330-20-7	Xylenes (total)		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	540-59-0	1,2-Dichloroethene(Total)		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	56-23-5	Carbon tetrachloride		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03

MDL=Minimum Detection Limit C - The Analyte was in the Sample and Blank, Sample < = 5 x Blank 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 WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-007: 200-PW-2/PW-4
Group #: WSCF20031204

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000787	B17HR4	GPP	591-78-6	2-Hexanone		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	67-64-1	Acetone		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	67-66-3	Chloroform		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	71-55-6	1,1,1-Trichloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	74-83-9	Bromomethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	79-34-5	1,1,2,2-Tetrachloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	74-87-3	Chloromethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-00-3	Chloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-01-4	Vinyl chloride		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-09-2	Methylenechloride		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-15-0	Carbon disulfide		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-25-2	Bromoform		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	75-27-4	Bromodichloromethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	78-87-5	1,2-Dichloropropane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	78-93-3	2-Butanone		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	79-00-5	1,1,2-Trichloroethane		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	71-36-3	1-Butanol		LA-523-455	U	< 20.0	ug/L	1.00	20	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	107-87-9	2-Pentanone		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	104-51-8	n-Butylbenzene		LA-523-455	U	< 1.00	ug/L	1.00	1.0	09/11/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	TPHDIESEL	Total Pet. Hydrocarbons Diesel		NWTPH	U	< 91.0	ug/L	1.00	91	09/09/03	09/02/03	09/02/03
W030000787	B17HR4	GPP	TPHKEROSENE	Kerosene		NWTPH	U	< 91.0	ug/L	1.00	91	09/09/03	09/02/03	09/02/03

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RQ=Result Qualifier

DF=Dilution Factor

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Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F03-007

Group #: WSCF20031204

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		TPHD/SVOA: All results are moisture corrected and reported on a dry weight basis. cgc SVOA: The SPK-RPD for Terphenyl-d14 is out of limits. All the other QC is good. den ICP-MS: The preparation blank contains 2.4 ug/L (ppb) copper and 0.5 ug/L silver. Antimony was not flagged because the sample was not detectable. Mercury has high LCS, MS, and MSD recoveries but was not flagged because the sample was not detectable. W030000787 for U iso test had poor RPD but the criterion does not apply to low level samples. Ra-226 and 228 test had poor RPD but the samples are below detection. Same poor RPD occurances with the Pu/Am tests.

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

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

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Attention: **Group #:** 20031204
Project Number :

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-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
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY

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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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.

w13qlog v1 07-oct-2003 14:20:16

W13q Worklist/Batch/QC Report for Group# WSCF20031204

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W030000787	Uranium Isotopic by ICP-MS
20239	3	20620	23433	BLNK-PREP		Ammonia (N) by IC
20239	12	20620	23433	BLNK-PREP		Ammonia (N) by IC
20239	1	20620	23433	LCS		Ammonia (N) by IC
20239	8	20620	23433	SAMPLE	W030000787	Ammonia (N) by IC
20239	5	20620	23433	DUP	W03D000039	Ammonia (N) by IC
20239	6	20620	23433	MS	W03D000039	Ammonia (N) by IC
20239	7	20620	23433	MSD	W03D000039	Ammonia (N) by IC
20252	2	20636	23452	BLANK		Anions by Ion Chromatography
20252	24	20636	23452	BLANK		Anions by Ion Chromatography
20252	3	20636	23452	LCS		Anions by Ion Chromatography
20252	18	20636	23452	DUP	W030000787	Anions by Ion Chromatography
20252	19	20636	23452	MS	W030000787	Anions by Ion Chromatography
20252	21	20636	23452	MSD	W030000787	Anions by Ion Chromatography
20252	17	20636	23452	SAMPLE	W030000787	Anions by Ion Chromatography
20252	5	20636	23452	DUP	W03C000251	Anions by Ion Chromatography
20252	6	20636	23452	MS	W03C000251	Anions by Ion Chromatography
20252	7	20636	23452	MSD	W03C000251	Anions by Ion Chromatography
			23526	BLANK		SW-846 8270B Semi-Vols
			23526	LCS		SW-846 8270B Semi-Vols
			23526	MS	W030000787	SW-846 8270B Semi-Vols
			23526	MSD	W030000787	SW-846 8270B Semi-Vols
			23526	SAMPLE	W030000787	SW-846 8270B Semi-Vols
			23526	SPK-RPD	W030000787	SW-846 8270B Semi-Vols
			23526	SURR	W030000787	SW-846 8270B Semi-Vols
			23535	BLANK		WTPH-D TPH Diesel Range (Wa)
			23535	LCS		WTPH-D TPH Diesel Range (Wa)
			23535	MS	W030000787	WTPH-D TPH Diesel Range (Wa)
			23535	MSD	W030000787	WTPH-D TPH Diesel Range (Wa)
			23535	SAMPLE	W030000787	WTPH-D TPH Diesel Range (Wa)
			23535	SPK-RPD	W030000787	WTPH-D TPH Diesel Range (Wa)
			23535	SURR	W030000787	WTPH-D TPH Diesel Range (Wa)
			23546	BLANK		Cyanide by Midi/Spectrophotom
			23546	BLNK-PREP		Cyanide by Midi/Spectrophotom
			23546	DUP		Cyanide by Midi/Spectrophotom
			23546	LCS		Cyanide by Midi/Spectrophotom
			23546	LCS-2		Cyanide by Midi/Spectrophotom
			23546	SAMPLE	W030000787	Cyanide by Midi/Spectrophotom
			23546	MS	W03D000041	Cyanide by Midi/Spectrophotom
			23546	MSD	W03D000041	Cyanide by Midi/Spectrophotom
			23546	SPK-RPD	W03D000041	Cyanide by Midi/Spectrophotom
20309	1	20691	23566	BLANK		Uranium Isotopics by AEA
20309	2	20691	23566	LCS		Uranium Isotopics by AEA
20309	3	20691	23566	DUP	W030000787	Uranium Isotopics by AEA
20309	4	20691	23566	SAMPLE	W030000787	Uranium Isotopics by AEA
20369	1	20750	23574	BLANK		ICP-2008 MS All possible metal
20369	19	20750	23574	BLANK		ICP-2008 MS All possible metal

20369	2	20750	23574	LCS		ICP-2008 MS All possible metal
20369	20	20750	23574	LCS		ICP-2008 MS All possible metal
20369	4	20750	23574	MS	W030000787	ICP-2008 MS All possible metal
20369	5	20750	23574	MSD	W030000787	ICP-2008 MS All possible metal
20369	3	20750	23574	SAMPLE	W030000787	ICP-2008 MS All possible metal
20369	22	20750	23574	MS	W03D000041	ICP-2008 MS All possible metal
20369	23	20750	23574	MSD	W03D000041	ICP-2008 MS All possible metal
			23610	BLANK		PCBs complete list
			23610	LCS		PCBs complete list
			23610	LCS-DUP		PCBs complete list
			23610	MS	W030000787	PCBs complete list
			23610	MSD	W030000787	PCBs complete list
			23610	SAMPLE	W030000787	PCBs complete list
			23610	SPK-RPD	W030000787	PCBs complete list
			23610	SURR	W030000787	PCBs complete list
20270	2	20653	23685	BLANK		Ra-226 by AEA and GEA
20270	4	20653	23685	LCS		Ra-226 by AEA and GEA
20270	5	20653	23685	DUP	W030000787	Ra-226 by AEA and GEA
20270	6	20653	23685	SAMPLE	W030000787	Ra-226 by AEA and GEA
20270	1	20653	23685	BLANK		Ra-228 by GEA
20270	3	20653	23685	LCS		Ra-228 by GEA
20270	7	20653	23685	DUP	W030000787	Ra-228 by GEA
20270	8	20653	23685	SAMPLE	W030000787	Ra-228 by GEA
20218	1	20601	23702	BLANK		Gamma Energy Analysis-grd H2O
20218	2	20601	23702	LCS		Gamma Energy Analysis-grd H2O
20218	3	20601	23702	DUP	W030000787	Gamma Energy Analysis-grd H2O
20218	4	20601	23702	SAMPLE	W030000787	Gamma Energy Analysis-grd H2O
20478	1	20859	23720	BLANK		NWTPH-GX TPH Gasoline Range
20478	2	20859	23720	LCS		NWTPH-GX TPH Gasoline Range
20478	4	20859	23720	DUP	W030000787	NWTPH-GX TPH Gasoline Range
20478	5	20859	23720	MS	W030000787	NWTPH-GX TPH Gasoline Range
20478	6	20859	23720	MSD	W030000787	NWTPH-GX TPH Gasoline Range
20478	3	20859	23720	SAMPLE	W030000787	NWTPH-GX TPH Gasoline Range
20478	6	20859	23720	SPK-RPD	W030000787	NWTPH-GX TPH Gasoline Range
20479	1	20861	23729	BLANK		Americium by AEA
20479	2	20861	23729	LCS		Americium by AEA
20479	3	20861	23729	DUP	W030000787	Americium by AEA
20479	4	20861	23729	SAMPLE	W030000787	Americium by AEA
20480	1	20860	23730	BLANK		Plutonium Isotopics by AEA
20480	2	20860	23730	LCS		Plutonium Isotopics by AEA
20480	3	20860	23730	DUP	W030000787	Plutonium Isotopics by AEA
20480	4	20860	23730	SAMPLE	W030000787	Plutonium Isotopics by AEA
20498	1	20879	23745	BLANK		ICP Metals Analysis, Grd H2O P
20498	2	20879	23745	LCS		ICP Metals Analysis, Grd H2O P
20498	4	20879	23745	MS	W030000787	ICP Metals Analysis, Grd H2O P
20498	5	20879	23745	MSD	W030000787	ICP Metals Analysis, Grd H2O P
20498	3	20879	23745	SAMPLE	W030000787	ICP Metals Analysis, Grd H2O P
20498	0	20879	23745	SPK-RPD	W030000787	ICP Metals Analysis, Grd H2O P
			23773	BLANK		VOA Ground Water Protection
			23773	LCS		VOA Ground Water Protection
			23773	MS	W030000787	VOA Ground Water Protection
			23773	MSD	W030000787	VOA Ground Water Protection

			23773	SAMPLE	W030000787	VOA Ground Water Protection
			23773	SPK-RPD	W030000787	VOA Ground Water Protection
			23773	SURR	W030000787	VOA Ground Water Protection
20524	1	20907	23775	BLANK		Alcohols, Glycols - 8015
20524	2	20907	23775	LCS		Alcohols, Glycols - 8015
20524	4	20907	23775	MS	W030000787	Alcohols, Glycols - 8015
20524	5	20907	23775	MSD	W030000787	Alcohols, Glycols - 8015
20524	3	20907	23775	SAMPLE	W030000787	Alcohols, Glycols - 8015
20524	5	20907	23775	SPK-RPD	W030000787	Alcohols, Glycols - 8015

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Ammonia (N) by IC

SAF Number: F03-007
Sample Date: 08/25/03
Receive Date:08/25/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W03D000039									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Ammonia (N) by IC	7664-41-7	2.41e-02	1.253	RPD	09/03/03	0.000	20.000	
MS	Ammonia (N) by IC	7664-41-7	1.78e-01	107.879	% Recov	09/03/03	75.000	125.000	
MSD	Ammonia (N) by IC	7664-41-7	1.81e-01	109.697	% Recov	09/03/03	75.000	125.000	
BATCH QC									
BLNK-PREP	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	09/03/03	0.000	30.000	U
BLNK-PREP	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	09/03/03	0.000	30.000	U
LCS	Ammonia (N) by IC	7664-41-7	8.21e+01	99.035	% Recov	09/03/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Anions by Ion Chromatography

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Chloride	16887-00-6	<3.00e-2	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Fluoride	16984-48-8	<8.00e-3	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Nitrogen in Nitrite	NO2-N	<3.00e-3	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	<3.00e-3	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Phosphate	14265-44-2	<2.00e-2	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Sulfate	14808-79-8	<3.00e-2	n/a	RPD	09/04/03	0.000	20.000	U
MS	Chloride	16887-00-6	1.02e+00	103.030	% Recov	09/04/03	75.000	125.000	
MS	Fluoride	16984-48-8	5.35e-01	109.407	% Recov	09/04/03	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	4.97e-01	98.611	% Recov	09/04/03	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.82e-01	108.072	% Recov	09/04/03	75.000	125.000	
MS	Phosphate	14265-44-2	9.56e-01	99.687	% Recov	09/04/03	75.000	125.000	
MS	Sulfate	14808-79-8	2.02e+00	102.538	% Recov	09/04/03	75.000	125.000	
MSD	Chloride	16887-00-6	8.89e-01	89.798	% Recov	09/04/03	75.000	125.000	
MSD	Fluoride	16984-48-8	4.72e-01	96.524	% Recov	09/04/03	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	4.34e-01	86.111	% Recov	09/04/03	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.27e-01	95.740	% Recov	09/04/03	75.000	125.000	
MSD	Phosphate	14265-44-2	8.45e-01	88.113	% Recov	09/04/03	75.000	125.000	
MSD	Sulfate	14808-79-8	1.76e+00	89.340	% Recov	09/04/03	75.000	125.000	

Lab ID: W03C000251
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Chloride	16887-00-6	3.76e+00	2.969	RPD	09/04/03	0.000	20.000	
DUP	Fluoride	16984-48-8	9.64e-01	11.350	RPD	09/04/03	0.000	20.000	
DUP	Nitrogen in Nitrite	NO2-N	<3.00e-3	n/a	RPD	09/04/03	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	2.32e-02	21.195	RPD	09/04/03	0.000	20.000	
DUP	Phosphate	14265-44-2	<2.00e-2	n/a	RPD	09/04/03	0.000	20.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Anions by Ion Chromatography

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Sulfate	14808-79-8	3.57e+00	12.352	RPD	09/04/03	0.000	20.000	
MS	Chloride	16887-00-6	1.03e+00	104.040	% Recov	09/04/03	75.000	125.000	
MS	Fluoride	16984-48-8	4.98e-01	101.840	% Recov	09/04/03	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	4.99e-01	99.008	% Recov	09/04/03	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.94e-01	110.762	% Recov	09/04/03	75.000	125.000	
MS	Phosphate	14265-44-2	8.44e-01	88.008	% Recov	09/04/03	75.000	125.000	
MS	Sulfate	14808-79-8	2.03e+00	103.046	% Recov	09/04/03	75.000	125.000	
MSD	Chloride	16887-00-6	1.04e+00	105.051	% Recov	09/04/03	75.000	125.000	
MSD	Fluoride	16984-48-8	4.70e-01	96.115	% Recov	09/04/03	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	4.92e-01	97.619	% Recov	09/04/03	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.86e-01	108.969	% Recov	09/04/03	75.000	125.000	
MSD	Phosphate	14265-44-2	8.57e-01	89.364	% Recov	09/04/03	75.000	125.000	
MSD	Sulfate	14808-79-8	2.00e+00	101.523	% Recov	09/04/03	75.000	125.000	
BATCH QC									
BLANK	Chloride	16887-00-6	<3.00e-2	n/a	mg/L	09/03/03	0.000	300.000	U
BLANK	Chloride	16887-00-6	<3.00e-2	n/a	mg/L	09/05/03	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<8.00e-3	n/a	mg/L	09/05/03	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<8.00e-3	n/a	mg/L	09/03/03	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<3.00e-3	n/a	mg/L	09/05/03	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<3.00e-3	n/a	mg/L	09/03/03	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<3.00e-3	n/a	mg/L	09/03/03	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<3.00e-3	n/a	mg/L	09/05/03	0.000	300.000	U
BLANK	Phosphate	14265-44-2	<2.00e-2	n/a	mg/L	09/03/03	0.000	300.000	U
BLANK	Phosphate	14265-44-2	<2.00e-2	n/a	mg/L	09/05/03	0.000	300.000	U
BLANK	Sulfate	14808-79-8	2.71e-01	0.271	mg/L	09/05/03	0.000	300.000	
BLANK	Sulfate	14808-79-8	<3.00e-2	n/a	mg/L	09/03/03	0.000	300.000	U
LCS	Chloride	16887-00-6	1.99e+02	99.500	% Recov	09/03/03	80.000	120.000	
LCS	Fluoride	16984-48-8	1.06e+02	107.396	% Recov	09/03/03	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	9.44e+01	94.400	% Recov	09/03/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Anions by Ion Chromatography

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Nitrogen in Nitrate	NO3-N	9.55e+01	105.993	% Recov	09/03/03	80.000	120.000	
LCS	Phosphate	14265-44-2	1.89e+02	97.523	% Recov	09/03/03	80.000	120.000	
LCS	Sulfate	14808-79-8	4.02e+02	100.752	% Recov	09/03/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,2,4-Trichlorobenzene	120-82-1	30.257	75.600	% Recov	09/08/03	50.000	120.000	
MS	1,4-Dichlorobenzene	106-46-7	30.401	76.000	% Recov	09/08/03	41.000	113.000	
MS	2,4-Dinitrotoluene	121-14-2	37.314	93.300	% Recov	09/08/03	65.000	109.000	
MS	2-Fluorophenol	367-12-4	32.444	64.900	% Recov	09/08/03	50.000	110.000	
MS	Acenaphthene	83-32-9	35.645	89.100	% Recov	09/08/03	62.000	112.000	
MS	4-Chloro-3-methylphenol	59-50-7	62.009	103.000	% Recov	09/08/03	59.000	115.000	
MS	2-Chlorophenol	95-57-8	48.600	81.000	% Recov	09/08/03	69.000	111.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	40.207	101.000	% Recov	09/08/03	69.000	115.000	
MS	2-Fluorobiphenyl	321-60-8	33.386	66.800	% Recov	09/08/03	58.000	109.000	
MS	Phenol	108-95-2	53.766	89.600	% Recov	09/08/03	59.000	115.000	
MS	Nitrobenzene-d5	4165-60-0	35.444	70.900	% Recov	09/08/03	60.000	118.000	
MS	4-Nitrophenol	100-02-7	52.246	87.100	% Recov	09/08/03	32.000	130.000	
MS	Pentachlorophenol	87-86-5	52.490	87.500	% Recov	09/08/03	51.000	121.000	
MS	Phenol-d5	4165-62-2	32.649	65.300	% Recov	09/08/03	59.000	116.000	
MS	Pyrene	129-00-0	43.246	108.000	% Recov	09/08/03	58.000	116.000	
MS	2,4,6-Tribromophenol	118-79-6	37.043	74.100	% Recov	09/08/03	60.000	120.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	30.640	61.300	% Recov	09/08/03	60.000	120.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	38.266	84.200	% Recov	09/08/03	50.000	120.000	
MSD	1,4-Dichlorobenzene	106-46-7	37.887	83.400	% Recov	09/08/03	41.000	113.000	
MSD	2,4-Dinitrotoluene	121-14-2	43.136	94.900	% Recov	09/08/03	65.000	109.000	
MSD	2-Fluorophenol	367-12-4	37.825	66.600	% Recov	09/08/03	50.000	110.000	
MSD	Acenaphthene	83-32-9	44.667	98.300	% Recov	09/08/03	62.000	112.000	
MSD	4-Chloro-3-methylphenol	59-50-7	66.974	98.200	% Recov	09/08/03	59.000	115.000	
MSD	2-Chlorophenol	95-57-8	61.395	90.000	% Recov	09/08/03	69.000	111.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	48.179	106.000	% Recov	09/08/03	69.000	115.000	
MSD	2-Fluorobiphenyl	321-60-8	42.164	74.200	% Recov	09/08/03	58.000	109.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Phenol	108-95-2	67.510	99.000	% Recov	09/08/03	59.000	115.000	
MSD	Nitrobenzene-d5	4165-60-0	40.579	71.400	% Recov	09/08/03	60.000	118.000	
MSD	4-Nitrophenol	100-02-7	53.144	77.900	% Recov	09/08/03	32.000	130.000	
MSD	Pentachlorophenol	87-86-5	64.017	93.900	% Recov	09/08/03	51.000	121.000	
MSD	Phenol-d5	4165-62-2	39.826	70.100	% Recov	09/08/03	59.000	116.000	
MSD	Pyrene	129-00-0	47.941	105.000	% Recov	09/08/03	58.000	116.000	
MSD	2,4,6-Tribromophenol	118-79-6	44.444	78.200	% Recov	09/08/03	60.000	120.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	47.259	83.200	% Recov	09/08/03	60.000	120.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	84.200	10.763	RPD	09/08/03	0.000	25.000	
SPK-RPD	1,4-Dichlorobenzene	106-46-7	83.400	9.285	RPD	09/08/03	0.000	25.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	94.900	1.700	RPD	09/08/03	0.000	25.000	
SPK-RPD	2-Fluorophenol	367-12-4	66.600	2.586	% Recov	09/08/03	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	98.300	9.819	RPD	09/08/03	0.000	25.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	98.200	4.771	RPD	09/08/03	0.000	25.000	
SPK-RPD	2-Chlorophenol	95-57-8	90.000	10.526	RPD	09/08/03	0.000	25.000	
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	106.000	4.831	RPD	09/08/03	0.000	25.000	
SPK-RPD	2-Fluorobiphenyl	321-60-8	74.200	10.496	% Recov	09/08/03	0.000	20.000	
SPK-RPD	Phenol	108-95-2	99.000	9.968	RPD	09/08/03	0.000	16.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	71.400	0.703	% Recov	09/08/03	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	77.900	11.152	RPD	09/08/03	0.000	25.000	
SPK-RPD	Pentachlorophenol	87-86-5	93.900	7.056	RPD	09/08/03	0.000	25.000	
SPK-RPD	Phenol-d5	4165-62-2	70.100	7.090	% Recov	09/08/03	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	105.000	2.817	RPD	09/08/03	0.000	25.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	78.200	5.384	% Recov	09/08/03	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	83.200	30.310	% Recov	09/08/03	0.000	20.000	
SURR	2-Fluorophenol	367-12-4	35.550	71.100	% Recov	09/08/03	50.000	110.000	
SURR	2-Fluorobiphenyl	321-60-8	40.359	80.700	% Recov	09/08/03	58.000	109.000	
SURR	Nitrobenzene-d5	4165-60-0	37.494	75.000	% Recov	09/08/03	60.000	118.000	
SURR	Phenol-d5	4165-62-2	34.185	68.400	% Recov	09/08/03	59.000	116.000	
SURR	2,4,6-Tribromophenol	118-79-6	36.950	73.900	% Recov	09/08/03	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Terphenyl-d14 (7Cl)	98904-43-9	37.562	75.100	% Recov	09/08/03	60.000	120.000	
BATCH QC									
BLANK	1,2-Dichlorobenzene	95-50-1	< 4.2	n/a	ug/L	09/08/03			U
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 3.0	n/a	ug/L	09/08/03			U
BLANK	1,3-Dichlorobenzene	541-73-1	< 5.2	n/a	ug/L	09/08/03			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 5.0	n/a	ug/L	09/08/03			U
BLANK	2,4-Dichlorophenol	120-83-2	< 1.4	n/a	ug/L	09/08/03			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 1.8	n/a	ug/L	09/08/03			U
BLANK	2,4,5-Trichlorophenol	95-95-4	< 1.9	n/a	ug/L	09/08/03			U
BLANK	2,4,6-Trichlorophenol	88-06-2	< 2.4	n/a	ug/L	09/08/03			U
BLANK	2,4-Dimethylphenol	105-67-9	< 4.3	n/a	ug/L	09/08/03			U
BLANK	2,6-Dinitrotoluene	606-20-2	< 2.2	n/a	ug/L	09/08/03			U
BLANK	2-Butoxyethanol	111-76-2	< 3.1	n/a	ug/L	09/08/03			U
BLANK	2-Chloronaphthalene	91-58-7	< 2.3	n/a	ug/L	09/08/03			U
BLANK	2-Fluorophenol	367-12-4	33.018	66.000	% Recov	09/08/03	50.000	110.000	
BLANK	2-Methylnaphthalene	91-57-6	< 1.9	n/a	ug/L	09/08/03			U
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 2.3	n/a	ug/L	09/08/03			U
BLANK	2-Nitroaniline	88-74-4	< 2.1	n/a	ug/L	09/08/03			U
BLANK	2-Nitrophenol	88-75-5	< 2.0	n/a	ug/L	09/08/03			U
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 3.2	n/a	ug/L	09/08/03	0.000	5.000	U
BLANK	3-Nitroaniline	99-09-2	< 4.5	n/a	ug/L	09/08/03			U
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 1.7	n/a	ug/L	09/08/03			U
BLANK	4-Bromophenylphenyl ether	101-55-3	< 1.9	n/a	ug/L	09/08/03			U
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 2.2	n/a	ug/L	09/08/03			U
BLANK	Acenaphthene	83-32-9	< 2.4	n/a	ug/L	09/08/03			U
BLANK	Acenaphthylene	208-96-8	< 2.3	n/a	ug/L	09/08/03			U
BLANK	Anthracene	120-12-7	< 2.0	n/a	ug/L	09/08/03			U
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 3.4	n/a	ug/L	09/08/03			U
BLANK	Benzo(a)anthracene	56-55-3	< 2.1	n/a	ug/L	09/08/03			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Benzo(b)fluoranthene	205-99-2	< 1.7	n/a	ug/L	09/08/03			U
BLANK	Benzo(ghi)perylene	191-24-2	< 2.5	n/a	ug/L	09/08/03			U
BLANK	Benzo(a)pyrene	50-32-8	< 2.1	n/a	ug/L	09/08/03			U
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 2.0	n/a	ug/L	09/08/03			U
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 2.6	n/a	ug/L	09/08/03			U
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 2.1	n/a	ug/L	09/08/03	0.000	10.000	U
BLANK	Benzyl alcohol	100-51-6	< 1.8	n/a	ug/L	09/08/03			U
BLANK	Benzo(k)fluoranthene	207-08-9	< 2.8	n/a	ug/L	09/08/03			U
BLANK	Butylbenzylphthalate	85-68-7	< 2.0	n/a	ug/L	09/08/03			U
BLANK	Carbazole	86-74-8	< 1.4	n/a	ug/L	09/08/03			U
BLANK	4-Chloroaniline	106-47-8	< 7.2	n/a	ug/L	09/08/03			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 1.3	n/a	ug/L	09/08/03			U
BLANK	2-Chlorophenol	95-57-8	< 1.7	n/a	ug/L	09/08/03			U
BLANK	Chrysene	218-01-9	< 2.3	n/a	ug/L	09/08/03			U
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 4.1	n/a	ug/L	09/08/03			U
BLANK	Dibenz[a,h]anthracene	53-70-3	< 2.6	n/a	ug/L	09/08/03			U
BLANK	Dibenzofuran	132-64-9	< 1.9	n/a	ug/L	09/08/03			U
BLANK	Di-n-butylphthalate	84-74-2	< 2.1	n/a	ug/L	09/08/03			U
BLANK	Diethylphthalate	84-66-2	< 6.3	n/a	ug/L	09/08/03			U
BLANK	Dimethyl phthalate	131-11-3	< 2.1	n/a	ug/L	09/08/03			U
BLANK	2,4-Dinitrophenol	51-28-5	< 3.3	n/a	ug/L	09/08/03			U
BLANK	Di-n-octylphthalate	117-84-0	< 2.5	n/a	ug/L	09/08/03			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 1.7	n/a	ug/L	09/08/03			U
BLANK	2-Fluorobiphenyl	321-60-8	39.666	79.300	% Recov	09/08/03	58.000	109.000	
BLANK	Fluorene	86-73-7	< 2.0	n/a	ug/L	09/08/03			U
BLANK	Fluoranthene	206-44-0	< 2.1	n/a	ug/L	09/08/03			U
BLANK	Hexachlorobenzene	118-74-1	< 2.1	n/a	ug/L	09/08/03			U
BLANK	Hexachlorobutadiene	87-68-3	< 3.6	n/a	ug/L	09/08/03			U
BLANK	Hexachlorocyclopentadiene	77-47-4	< 7.8	n/a	ug/L	09/08/03			U
BLANK	Hexachloroethane	67-72-1	< 5.5	n/a	ug/L	09/08/03			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 2.6	n/a	ug/L	09/08/03			U
BLANK	Isophorone	78-59-1	< 1.9	n/a	ug/L	09/08/03			U
BLANK	Phenol	108-95-2	< 1.7	n/a	ug/L	09/08/03			U
BLANK	Naphthalene	91-20-3	< 2.4	n/a	ug/L	09/08/03			U
BLANK	Nitrobenzene-d5	4165-60-0	37.184	74.400	% Recov	09/08/03	60.000	118.000	
BLANK	Nitrobenzene	98-95-3	< 2.0	n/a	ug/L	09/08/03			U
BLANK	4-Nitrophenol	100-02-7	< 1.4	n/a	ug/L	09/08/03			U
BLANK	4-Nitroaniline	100-01-6	< 2.9	n/a	ug/L	09/08/03			U
BLANK	N-Nitrosodiphenylamine	86-30-6	< 2.3	n/a	ug/L	09/08/03			U
BLANK	Pentachlorophenol	87-86-5	< 1.7	n/a	ug/L	09/08/03			U
BLANK	Phenanthrene	85-01-8	< 2.2	n/a	ug/L	09/08/03			U
BLANK	Phenol-d5	4165-62-2	33.071	66.100	% Recov	09/08/03	59.000	116.000	
BLANK	Pyrene	129-00-0	< 2.1	n/a	ug/L	09/08/03			U
BLANK	Tributyl phosphate	126-73-8	< 2.5	n/a	ug/L	09/08/03			U
BLANK	2,4,6-Tribromophenol	118-79-6	33.997	68.000	% Recov	09/08/03	60.000	120.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	40.894	81.800	% Recov	09/08/03	60.000	120.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	34.144	85.400	% Recov	09/08/03	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	30.182	75.500	% Recov	09/08/03	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	39.448	98.600	% Recov	09/08/03	59.000	106.000	
LCS	2-Fluorophenol	367-12-4	34.083	68.200	% Recov	09/08/03	50.000	110.000	
LCS	Acenaphthene	83-32-9	39.682	99.200	% Recov	09/08/03	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	58.509	97.500	% Recov	09/08/03	61.000	106.000	
LCS	2-Chlorophenol	95-57-8	54.920	91.500	% Recov	09/08/03	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	43.112	108.000	% Recov	09/08/03	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	36.269	72.500	% Recov	09/08/03	58.000	109.000	
LCS	Phenol	108-95-2	59.422	99.000	% Recov	09/08/03	67.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	38.531	77.100	% Recov	09/08/03	60.000	118.000	
LCS	4-Nitrophenol	100-02-7	45.958	76.600	% Recov	09/08/03	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	56.046	93.400	% Recov	09/08/03	62.000	114.000	
LCS	Phenol-d5	4165-62-2	35.431	70.900	% Recov	09/08/03	59.000	116.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: SW-846 8270B Semi-Vols

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Pyrene	129-00-0	44.176	110.000	% Recov	09/08/03	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	40.781	81.600	% Recov	09/08/03	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	42.906	85.800	% Recov	09/08/03	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte		CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787										
BATCH QC ASSOCIATED WITH SAMPLE										
MS	Kerosene		TPHKEROSENE	2383.3	78.200	%Recove	09/10/03	70.000	130.000	
MS	ortho-Terphenyl	Surr	84-15-1	607.19	99.600	% Recov	09/10/03	70.000	130.000	
MSD	Kerosene		TPHKEROSENE	2488.9	80.100	%Recove	09/10/03	70.000	130.000	
MSD	ortho-Terphenyl	Surr	84-15-1	642.74	103.000	% Recov	09/10/03	70.000	130.000	
SPK-RPD	Kerosene		TPHKEROSENE	80.100	2.401	RPD	09/09/03	0.000	20.000	
SPK-RPD	ortho-Terphenyl	Surr	84-15-1	103.000	3.356	RPD	09/09/03	0.000	20.000	
SURR	ortho-Terphenyl	Surr	84-15-1	611.90	100.000	% Recov	09/09/03	70.000	130.000	
BATCH QC										
BLANK	Kerosene		TPHKEROSENE	< 75	n/a	ug/L	09/09/03	-999.000	999.000	U
BLANK	ortho-Terphenyl	Surr	84-15-1	516.55	103.000	% Recov	09/09/03	70.000	130.000	
BLANK	Total Pet. Hydrocarbons Diesel		TPHDIESEL	< 75	n/a	mg/L	09/09/03	0.000	300.000	U
LCS	ortho-Terphenyl	Surr	84-15-1	549.84	110.000	% Recov	09/09/03	70.000	130.000	
LCS	Total Pet. Hydrocarbons Diesel		TPHDIESEL	2133.6	85.300	% Recov	09/09/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Cyanide by Midi/Spectrophotom

SAF Number: F03-007
Sample Date: 09/03/03
Receive Date:09/03/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W03D000041									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Cyanide by Midi/Spectrophotom	57-12-5	87.4	87.400	% Recov	09/16/03	75.000	125.000	
MSD	Cyanide by Midi/Spectrophotom	57-12-5	104	104.000	% Recov	09/16/03	75.000	125.000	
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	104.000	17.346	RPD	09/16/03	0.000	20.000	
BATCH QC									
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	2.2	2.200	ug/L	09/16/03	-4.000	4.000	
BLNK-PREP	Cyanide by Midi/Spectrophotom	57-12-5	2.2	2.200	ug/L	09/16/03	-4.000	4.000	
DUP	Cyanide by Midi/Spectrophotom	57-12-5	n/a	n/a	RPD	09/16/03	0.000	20.000	
LCS	Cyanide by Midi/Spectrophotom	57-12-5	102	102.000	% Recov	09/16/03	85.000	115.000	
LCS-2	Cyanide by Midi/Spectrophotom	57-12-5	n/a	n/a	% Recov	09/16/03	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Uranium Isotopics by AEA

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Uranium-238	U-238	2.2e-02	85.714	RPD	09/10/03	0.000	20.000	
BATCH QC									
BLANK	Uranium-238	24678-82-8	5.5e-02	0.055	pCi/L	09/10/03	-100.000	100.000	
LCS	Uranium-238	24678-82-8	1.7e+01	90.162	% Recov	09/15/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: ICP-2008 MS All possible metal

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	37.36	93.400	% Recov	09/16/03	70.000	130.000	
MS	Arsenic	7440-38-2	39.5	98.750	% Recov	09/16/03	70.000	130.000	
MS	Barium	7440-39-3	36.01	90.025	% Recov	09/16/03	70.000	130.000	
MS	Beryllium	7440-41-7	41.28	103.200	% Recov	09/16/03	70.000	130.000	
MS	Cadmium	7440-43-9	38.73	96.825	% Recov	09/16/03	70.000	130.000	
MS	Chromium	7440-47-3	41	102.500	% Recov	09/16/03	70.000	130.000	
MS	Copper	7440-50-8	40.166	100.415	% Recov	09/16/03	70.000	130.000	
MS	Mercury	7439-97-6	2.678	133.900	% Recov	09/16/03	70.000	130.000	
MS	Nickel	7440-02-0	41.8	104.500	% Recov	09/16/03	70.000	130.000	
MS	Lead	7439-92-1	40.21	100.525	% Recov	09/16/03	70.000	130.000	
MS	Antimony	7440-36-0	44.99	112.475	% Recov	09/16/03	70.000	130.000	
MS	Selenium	7782-49-2	35.65	89.125	% Recov	09/16/03	70.000	130.000	
MS	Uranium	7440-61-1	41.99	104.975	% Recov	09/16/03	70.000	130.000	
MSD	Silver	7440-22-4	37.67	94.175	% Recov	09/16/03	70.000	130.000	
MSD	Arsenic	7440-38-2	38.9	97.250	% Recov	09/16/03	70.000	130.000	
MSD	Barium	7440-39-3	35.74	89.350	% Recov	09/16/03	70.000	130.000	
MSD	Beryllium	7440-41-7	38.59	96.475	% Recov	09/16/03	70.000	130.000	
MSD	Cadmium	7440-43-9	38.77	96.925	% Recov	09/16/03	70.000	130.000	
MSD	Chromium	7440-47-3	40.82	102.050	% Recov	09/16/03	70.000	130.000	
MSD	Copper	7440-50-8	40.126	100.315	% Recov	09/16/03	70.000	130.000	
MSD	Mercury	7439-97-6	2.681	134.050	% Recov	09/16/03	70.000	130.000	
MSD	Nickel	7440-02-0	41.3	103.250	% Recov	09/16/03	70.000	130.000	
MSD	Lead	7439-92-1	40.39	100.975	% Recov	09/16/03	70.000	130.000	
MSD	Antimony	7440-36-0	45.22	113.050	% Recov	09/16/03	70.000	130.000	
MSD	Selenium	7782-49-2	35.33	88.325	% Recov	09/16/03	70.000	130.000	
MSD	Uranium	7440-61-1	42.22	105.550	% Recov	09/16/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: ICP-2008 MS All possible metal

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W03D000041
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	Silver	7440-22-4	33.801	84.502	% Recov	09/16/03	70.000	130.000	
MS	Arsenic	7440-38-2	35.802	89.505	% Recov	09/16/03	70.000	130.000	
MS	Barium	7440-39-3	30.3	75.750	% Recov	09/16/03	70.000	130.000	
MS	Beryllium	7440-41-7	70.74	88.425	% Recov	09/17/03	70.000	130.000	
MS	Cadmium	7440-43-9	36.917	92.293	% Recov	09/16/03	70.000	130.000	
MS	Chromium	7440-47-3	36.296	90.740	% Recov	09/16/03	70.000	130.000	
MS	Copper	7440-50-8	33.612	84.030	% Recov	09/16/03	70.000	130.000	
MS	Mercury	7439-97-6	1.299	64.950	% Recov	09/16/03	70.000	130.000	
MS	Nickel	7440-02-0	34.81	87.025	% Recov	09/16/03	70.000	130.000	
MS	Lead	7439-92-1	39.5	98.750	% Recov	09/16/03	70.000	130.000	
MS	Antimony	7440-36-0	42.5	106.250	% Recov	09/16/03	70.000	130.000	
MS	Selenium	7782-49-2	34.25	85.625	% Recov	09/16/03	70.000	130.000	
MS	Uranium	7440-61-1	40.839	102.097	% Recov	09/16/03	70.000	130.000	
MSD	Silver	7440-22-4	35.751	89.377	% Recov	09/16/03	70.000	130.000	
MSD	Arsenic	7440-38-2	36.792	91.980	% Recov	09/16/03	70.000	130.000	
MSD	Barium	7440-39-3	31.75	79.375	% Recov	09/16/03	70.000	130.000	
MSD	Beryllium	7440-41-7	74.75	93.438	% Recov	09/17/03	70.000	130.000	
MSD	Cadmium	7440-43-9	38.017	95.043	% Recov	09/16/03	70.000	130.000	
MSD	Chromium	7440-47-3	37.856	94.640	% Recov	09/16/03	70.000	130.000	
MSD	Copper	7440-50-8	34.842	87.105	% Recov	09/16/03	70.000	130.000	
MSD	Mercury	7439-97-6	1.326	66.300	% Recov	09/16/03	70.000	130.000	
MSD	Nickel	7440-02-0	35.48	88.700	% Recov	09/16/03	70.000	130.000	
MSD	Lead	7439-92-1	40.45	101.125	% Recov	09/16/03	70.000	130.000	
MSD	Antimony	7440-36-0	44.13	110.325	% Recov	09/16/03	70.000	130.000	
MSD	Selenium	7782-49-2	34.5	86.250	% Recov	09/16/03	70.000	130.000	
MSD	Uranium	7440-61-1	41.969	104.923	% Recov	09/16/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: ICP-2008 MS All possible metal

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

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit		RQ
BLANK	Silver	7440-22-4	<0.25	n/a	ug/L	09/16/03	-0.440	0.440		U
BLANK	Silver	7440-22-4	0.514	0.514	ug/L	09/16/03	-0.440	0.440	•	
BLANK	Arsenic	7440-38-2	<0.375	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Arsenic	7440-38-2	0.415	0.415	ug/L	09/16/03	-0.660	0.660		
BLANK	Barium	7440-39-3	<0.25	n/a	ug/L	09/16/03	-0.440	0.440		U
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L	09/16/03	-0.440	0.440		U
BLANK	Beryllium	7440-41-7	<0.375	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Beryllium	7440-41-7	<0.3	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Cadmium	7440-43-9	<0.125	n/a	ug/L	09/16/03	-0.220	0.220		U
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	09/16/03	-0.220	0.220		U
BLANK	Chromium	7440-47-3	<0.375	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Chromium	7440-47-3	<0.3	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Copper	7440-50-8	2.382	2.382	ug/L	09/16/03	-1.100	1.100	•	
BLANK	Copper	7440-50-8	<0.625	n/a	ug/L	09/16/03	-1.100	1.100		U
BLANK	Mercury	7439-97-6	<0.125	n/a	ug/L	09/16/03	-0.220	0.220		U
BLANK	Mercury	7439-97-6	<0.1	n/a	ug/L	09/16/03	-0.220	0.220		U
BLANK	Nickel	7440-02-0	<0.625	n/a	ug/L	09/16/03	-1.100	1.100		U
BLANK	Nickel	7440-02-0	<0.5	n/a	ug/L	09/16/03	-1.100	1.100		U
BLANK	Lead	7439-92-1	<1.2	n/a	ug/L	09/16/03	-2.640	2.640		U
BLANK	Lead	7439-92-1	<1.5	n/a	ug/L	09/16/03	-2.640	2.640		U
BLANK	Antimony	7440-36-0	2.507	2.507	ug/L	09/16/03	-1.100	1.100	•	
BLANK	Antimony	7440-36-0	<0.625	n/a	ug/L	09/16/03	-1.100	1.100		U
BLANK	Selenium	7782-49-2	<0.375	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L	09/16/03	-0.660	0.660		U
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	09/16/03	-0.220	0.220		U
BLANK	Uranium	7440-61-1	<0.125	n/a	ug/L	09/16/03	-0.220	0.220		U
LCS	Silver	7440-22-4	36.23	90.575	% Recov	09/16/03	85.000	115.000		
LCS	Silver	7440-22-4	35.75	89.375	% Recov	09/16/03	85.000	115.000		
LCS	Arsenic	7440-38-2	37.2	93.000	% Recov	09/16/03	85.000	115.000		

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: ICP-2008 MS All possible metal

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Arsenic	7440-38-2	38.05	95.125	% Recov	09/16/03	85.000	115.000	
LCS	Barium	7440-39-3	40.38	100.950	% Recov	09/16/03	85.000	115.000	
LCS	Barium	7440-39-3	34.76	86.900	% Recov	09/16/03	85.000	115.000	
LCS	Beryllium	7440-41-7	77.60	97.000	% Recov	09/17/03	85.000	115.000	
LCS	Beryllium	7440-41-7	38.09	95.225	% Recov	09/16/03	85.000	115.000	
LCS	Cadmium	7440-43-9	37.52	93.800	% Recov	09/16/03	85.000	115.000	
LCS	Cadmium	7440-43-9	38.9	97.250	% Recov	09/16/03	85.000	115.000	
LCS	Chromium	7440-47-3	36.86	92.150	% Recov	09/16/03	85.000	115.000	
LCS	Chromium	7440-47-3	39.2	98.000	% Recov	09/16/03	85.000	115.000	
LCS	Copper	7440-50-8	35.91	89.775	% Recov	09/16/03	85.000	115.000	
LCS	Copper	7440-50-8	39.68	99.200	% Recov	09/16/03	85.000	115.000	
LCS	Mercury	7439-97-6	2.582	129.100	% Recov	09/16/03	85.000	115.000	*
LCS	Mercury	7439-97-6	1.472	73.600	% Recov	09/16/03	85.000	115.000	*
LCS	Nickel	7440-02-0	35.85	89.625	% Recov	09/16/03	85.000	115.000	
LCS	Nickel	7440-02-0	38.79	96.975	% Recov	09/16/03	85.000	115.000	
LCS	Lead	7439-92-1	39.5	98.750	% Recov	09/16/03	85.000	115.000	
LCS	Lead	7439-92-1	38.98	97.450	% Recov	09/16/03	85.000	115.000	
LCS	Antimony	7440-36-0	45.04	112.600	% Recov	09/16/03	85.000	115.000	
LCS	Antimony	7440-36-0	45.12	112.800	% Recov	09/16/03	85.000	115.000	
LCS	Selenium	7782-49-2	34.39	85.975	% Recov	09/16/03	85.000	115.000	
LCS	Selenium	7782-49-2	37.36	93.400	% Recov	09/16/03	85.000	115.000	
LCS	Uranium	7440-61-1	40.56	101.400	% Recov	09/16/03	85.000	115.000	
LCS	Uranium	7440-61-1	40.03	100.075	% Recov	09/16/03	85.000	115.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: PCBs complete list

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Aroclor-1254	11097-69-1	2.6092	104.000	% Recov	09/17/03	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	2.7057	108.000	% Recov	09/17/03	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	2.2310	89.200	% Recov	09/17/03	50.000	150.000	
MSD	Aroclor-1254	11097-69-1	2.4062	103.000	% Recov	09/17/03	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	2.4243	104.000	% Recov	09/17/03	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	1.7921	77.100	% Recov	09/17/03	50.000	150.000	
SPK-RPD	Aroclor-1254	11097-69-1	103.000	0.966	RPD	09/17/03	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	104.000	3.774	RPD	09/17/03	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	77.100	14.552	RPD	09/17/03	0.000	20.000	
SURR	Decachlorobiphenyl	2051-24-3	2.3415	101.000	% Recov	09/17/03	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	2.0492	88.100	% Recov	09/17/03	50.000	150.000	
BATCH QC									
BLANK	Aroclor-1016	12674-11-2	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1221	11104-28-2	< 0.20	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1232	11141-16-5	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1242	53469-21-9	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1248	12672-29-6	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1254	11097-69-1	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1260	11096-82-5	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1262	37324-23-5	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Aroclor-1268	11100-14-4	< 0.10	n/a	ug/L	09/17/03			U
BLANK	Decachlorobiphenyl	2051-24-3	1.9780	98.900	% Recov	09/17/03	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	1.5877	79.400	% Recov	09/17/03	50.000	150.000	
LCS	Aroclor-1254	11097-69-1	2.0596	103.000	% Recov	09/17/03	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	2.1413	107.000	% Recov	09/17/03	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: PCBs complete list

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Tetrachloro-m-xylene	877-09-8	1.6849	84.200	% Recov	09/17/03	50.000	150.000	
LCS-DUP	Aroclor-1254	11097-69-1	2.1689	108.000	% Recov	09/17/03	25.000	125.000	
LCS-DUP	Decachlorobiphenyl	2051-24-3	2.1941	110.000	% Recov	09/17/03	50.000	150.000	
LCS-DUP	Tetrachloro-m-xylene	877-09-8	1.8206	91.000	% Recov	09/17/03	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Ra-226 by AEA and GEA

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Radium-226	13982-63-3	1.2e-03	153.846	RPD	09/25/03	0.000	20.000	*
BATCH QC									
BLANK	Radium-226	13982-63-3	3.6e-03	0.004	pCi/L	09/25/03	0.000	1000.000	
LCS	Radium-226	13982-63-3	124.0	112.421	% Recov	09/25/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Ra-228 by GEA

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Radium-228	15262-20-1	-2.0e-01	-96.104	RPD	09/25/03	0.000	20.000	
BATCH QC									
BLANK	Radium-228	15262-20-1	-8.9e-01	-0.890	pCi/L	09/25/03	-10000.000	1000.000	
LCS	Radium-228	15262-20-1	41.7	110.026	% Recov	09/25/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Actinium-228	14331-83-0	U1.40e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Americium-241	14596-10-2	U1.51e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Bismuth-212	14913-49-6	U3.56e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Bismuth-214	14733-03-0	U1.58e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Cerium-144	14762-78-8	U1.55e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Cobalt-60	10198-40-0	U-1.72e0	n/a	RPD	09/18/03	0.000	20.000	
DUP	Cesium-134	13967-70-9	U3.22e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Cesium-137	10045-97-3	U1.09e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Europium-152	14683-23-9	U-6.85e0	n/a	RPD	09/18/03	0.000	20.000	
DUP	Europium-154	15585-10-1	U2.60e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Europium-155	14391-16-3	U6.82e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Niobium-94	14681-63-1	U-2.44e-1	n/a	RPD	09/18/03	0.000	20.000	
DUP	Lead-212	15092-94-1	U-9.57e0	n/a	RPD	09/18/03	0.000	20.000	
DUP	Lead-214	15067-28-4	U-5.29e0	n/a	RPD	09/18/03	0.000	20.000	
DUP	Radium-226	13982-63-3	U1.58e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Radium-228	15262-20-1	U1.40e+01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Ruthenium-103	13968-53-1	U4.10e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Ruthenium-106	13967-48-1	U8.21e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Antimony-125	14234-35-6	U5.77e-01	n/a	RPD	09/18/03	0.000	20.000	
DUP	Tin-113	13966-06-8	U1.97e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Tin-126	15832-50-5	U-7.00e-1	n/a	RPD	09/18/03	0.000	20.000	
DUP	Thorium-234	15065-10-8	U-1.74e1	n/a	RPD	09/18/03	0.000	20.000	
DUP	Thallium-208	14913-50-9	U1.22e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Uranium-235	15117-96-1	U2.39e+00	n/a	RPD	09/18/03	0.000	20.000	
DUP	Zinc-65	13982-39-3	U-1.97e1	n/a	RPD	09/18/03	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Gamma Energy Analysis-grd H2O

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Actinium-228	14331-83-0	U9.83e+00	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Americium-241	14596-10-2	U-1.04e2	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Bismuth-212	14913-49-6	U5.06e+01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Bismuth-214	14733-03-0	U1.95e+01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Cerium-144	14762-78-8	U-3.90e1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Cobalt-60	10198-40-0	U-5.89e-1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Cesium-134	13967-70-9	U-1.47e0	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Cesium-137	10045-97-3	U3.47e-01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Europium-152	14683-23-9	U-7.96e-1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Europium-154	15585-10-1	U-2.09e0	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Europium-155	14391-16-3	U-8.29e0	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Niobium-94	14681-63-1	U-1.57e-1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Lead-212	15092-94-1	U6.38e+00	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Lead-214	15067-28-4	4.91e+01	49.100	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Radium-226	13982-63-3	U1.95e+01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Radium-228	15262-20-1	U9.83e+00	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Ruthenium-103	13968-53-1	U1.52e+00	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Ruthenium-106	13967-48-1	U6.50e+01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Antimony-125	14234-35-6	U-3.31e0	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Tin-113	13966-06-8	U2.42e+00	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Tin-126	15832-50-5	U-8.86e1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Thorium-234	15065-10-8	U-3.27e1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Thallium-208	14913-50-9	U-6.84e-1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Uranium-235	15117-96-1	U-1.35e1	n/a	pCi/L	09/22/03	-10000.000	1000.000	
BLANK	Zinc-65	13982-39-3	U1.00e+01	n/a	pCi/L	09/22/03	-10000.000	1000.000	
LCS	Americium-241	14596-10-2	4.03e+03	102.806	% Recov	09/16/03	80.000	120.000	
LCS	Cobalt-60	10198-40-0	4.22e+03	100.716	% Recov	09/16/03	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.76e+03	105.028	% Recov	09/16/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: NWTPH-GX TPH Gasoline Range

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	RPD	09/11/03	0.000	20.000	U
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3480	100.870	% Recov	09/11/03	75.000	125.000	
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3700	107.246	% Recov	09/11/03	75.000	125.000	
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	107.246	6.127	RPD	09/11/03	0.000	20.000	
BATCH QC									
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	09/11/03	0.000	300.000	U
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	3660	106.087	%rec	09/11/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Americium by AEA

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Americium-241	14596-10-2	1.1e-01	152.000	RPD	09/22/03	0.000	20.000	
BATCH QC									
BLANK	Americium-241	14596-10-2	5.4e-02	0.054	pCi/L	09/22/03	-100.000	100.000	
LCS	Americium-241	14596-10-2	6.5e+00	98.859	% Recov	09/22/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Plutonium Isotopics by AEA

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Pu-239/240 by AEA	PU-239/240	1.4e-02	82.828	RPD	09/23/03	0.000	20.000	*
BATCH QC									
BLANK	Pu-239/240 by AEA	PU-239/240	4.6e-03	0.005	pCi/L	09/23/03	-100.000	100.000	
LCS	Pu-239/240 by AEA	PU-239/240	6.2720	95.392	% Recov	09/23/03	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: ICP Metals Analysis, Grd H20 P

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W030000787									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Boron	7440-42-8	1072	107.200	% Recov	09/30/03	70.000	130.000	
MS	Bismuth	7440-69-9	991.3	99.130	% Recov	09/30/03	75.000	125.000	
MSD	Boron	7440-42-8	1062	106.200	% Recov	09/30/03	75.000	125.000	
MSD	Bismuth	7440-69-9	980.5	98.050	% Recov	09/30/03	75.000	125.000	
SPK-RPD	Boron	7440-42-8	106.200	0.937	RPD	09/30/03	0.000	20.000	
SPK-RPD	Bismuth	7440-69-9	98.050	1.095	RPD	09/30/03	0.000	20.000	
BATCH QC									
BLANK	Boron	7440-42-8	<102	n/a	ug/L	09/30/03	-10.000	10.000	U
BLANK	Bismuth	7440-69-9	<0e0	n/a	ug/L	09/30/03	-6.000	6.000	U
LCS	Boron	7440-42-8	1073	107.300	% Recov	09/30/03	85.000	115.000	
LCS	Bismuth	7440-69-9	986.1	98.610	% Recov	09/30/03	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: VOA Ground Water Protection

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	1,1-Dichloroethene	75-35-4	25.000	100.000	% Recov	09/11/03	63.000	117.000	
MS	Benzene	71-43-2	26.000	104.000	% Recov	09/11/03	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	49.000	98.000	% Recov	09/11/03	84.000	116.000	
MS	Chlorobenzene	108-90-7	26.000	104.000	% Recov	09/11/03	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	51.000	102.000	% Recov	09/11/03	82.000	136.000	
MS	Toluene-d8	2037-26-5	51.000	102.000	% Recov	09/11/03	89.000	119.000	
MS	Toluene	108-88-3	26.000	104.000	% Recov	09/11/03	76.000	120.000	
MS	Trichloroethene	79-01-6	25.000	100.000	% Recov	09/11/03	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	24.000	96.000	% Recov	09/11/03	63.000	117.000	
MSD	Benzene	71-43-2	26.000	104.000	% Recov	09/11/03	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	49.000	98.000	% Recov	09/11/03	84.000	116.000	
MSD	Chlorobenzene	108-90-7	25.000	100.000	% Recov	09/11/03	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	51.000	102.000	% Recov	09/11/03	82.000	136.000	
MSD	Toluene-d8	2037-26-5	51.000	102.000	% Recov	09/11/03	89.000	119.000	
MSD	Toluene	108-88-3	26.000	104.000	% Recov	09/11/03	76.000	120.000	
MSD	Trichloroethene	79-01-6	25.000	100.000	% Recov	09/11/03	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	96.000	4.082	RPD	09/11/03	0.000	10.000	
SPK-RPD	Benzene	71-43-2	104.000	0.000	RPD	09/11/03	0.000	10.000	
SPK-RPD	Chlorobenzene	108-90-7	100.000	3.922	RPD	09/11/03	0.000	10.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	102.000	0.000	RPD	09/11/03	0.000	25.000	
SPK-RPD	Toluene-d8	2037-26-5	102.000	0.000	RPD	09/11/03	0.000	25.000	
SPK-RPD	Toluene	108-88-3	104.000	0.000	RPD	09/11/03	0.000	10.000	
SPK-RPD	Trichloroethene	79-01-6	100.000	0.000	RPD	09/11/03	0.000	10.000	
SURR	4-Bromofluorobenzene	460-00-4	48.000	96.000	% Recov	09/11/03	84.000	116.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	49.000	98.000	% Recov	09/11/03	82.000	136.000	
SURR	Toluene-d8	2037-26-5	50.000	100.000	% Recov	09/11/03	89.000	119.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: VOA Ground Water Protection

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/L	09/11/03	0.000	5.000	U
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1-Butanol	71-36-3	< 20	n/a	mg/L	09/11/03			U
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	mg/L	09/11/03			U
BLANK	2-Pentanone	107-87-9	< 1.0	n/a	mg/L	09/11/03			U
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Acetone	67-64-1	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L	09/11/03			U
BLANK	4-Bromofluorobenzene	460-00-4	49.000	98.000	% Recov	09/11/03	84.000	116.000	
BLANK	Bromoform	75-25-2	< 1.0	n/a	mg/L	09/11/03			U
BLANK	n-Butylbenzene	104-51-8	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Chloroform	67-66-3	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L	09/11/03			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/L	09/11/03			U
BLANK	1,2-Dichloroethane-d4	17060-07-0	50.000	100.000	% Recov	09/11/03	82.000	136.000	
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/L	09/11/03			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: VOA Ground Water Protection

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/L	09/11/03			U
BLANK	2-Butanone	78-93-3	< 1.0	n/a	mg/L	09/11/03			U
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/L	09/11/03	0.000	5.000	U
BLANK	Toluene-d8	2037-26-5	50.000	100.000	% Recov	09/11/03	89.000	119.000	
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L	09/11/03			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L	09/11/03			U
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	mg/L	09/11/03			U
LCS	1,1-Dichloroethene	75-35-4	23.000	92.000	% Recov	09/11/03	70.000	130.000	
LCS	Benzene	71-43-2	25.000	100.000	% Recov	09/11/03	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	50.000	100.000	% Recov	09/11/03	84.000	116.000	
LCS	Chlorobenzene	108-90-7	25.000	100.000	% Recov	09/11/03	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17060-07-0	51.000	102.000	% Recov	09/11/03	82.000	136.000	
LCS	Toluene-d8	2037-26-5	51.000	102.000	% Recov	09/11/03	89.000	119.000	
LCS	Toluene	108-88-3	24.000	96.000	% Recov	09/11/03	70.000	130.000	
LCS	Trichloroethene	79-01-6	24.000	96.000	% Recov	09/11/03	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031204
Matrix: WATER
Test: Alcohols, Glycols - 8015

SAF Number: F03-007
Sample Date: 09/02/03
Receive Date:09/02/03

Lab ID: W030000787

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MS	2-Bromoethanol	540-51-2	22200	111.000	%Recove	09/11/03	70.000	125.000	
MS	Diethyl ether	60-29-7	17100	85.500	%Recove	09/11/03	75.000	125.000	
MS	Ethylene glycol	107-21-1	21700	108.500	%Recove	09/11/03	75.000	125.000	
MS	Methanol	67-56-1	20400	102.000	%Recove	09/11/03	75.000	125.000	
MSD	2-Bromoethanol	540-51-2	18300	91.500	%Recove	09/11/03	70.000	125.000	
MSD	Diethyl ether	60-29-7	20400	102.000	%Recove	09/11/03	75.000	125.000	
MSD	Ethylene glycol	107-21-1	22200	111.000	%Recove	09/11/03	75.000	125.000	
MSD	Methanol	67-56-1	21600	108.000	%Recove	09/11/03	75.000	125.000	
SPK-RPD	2-Bromoethanol	540-51-2	91.500	19.259	RPD	09/11/03	0.000	20.000	
SPK-RPD	Diethyl ether	60-29-7	102.000	17.600	RPD	09/11/03	0.000	20.000	
SPK-RPD	Ethylene glycol	107-21-1	111.000	2.278	RPD	09/11/03	0.000	20.000	
SPK-RPD	Methanol	67-56-1	108.000	5.714	RPD	09/11/03	0.000	20.000	

BATCH QC

BLANK	2-Bromoethanol	540-51-2	21300	1.065	ug/Kg	09/11/03	0.000	10.000	
BLANK	Diethyl ether	60-29-7	<5000	n/a	ug/L	09/11/03	0.000	10.000	U
BLANK	Ethylene glycol	107-21-1	<5000	n/a	ug/L	09/11/03	0.000	5.000	U
BLANK	Methanol	67-56-1	<1000	n/a	ug/L	09/11/03	0.000	10.000	U
LCS	2-Bromoethanol	540-51-2	21400	107.000	%Recove	09/11/03	70.000	130.000	
LCS	Diethyl ether	60-29-7	22100	110.500	%Recove	09/11/03	70.000	130.000	
LCS	Ethylene glycol	107-21-1	25000	125.000	%Recove	09/11/03	70.000	130.000	
LCS	Methanol	67-56-1	24100	120.500	%Recove	09/11/03	70.000	130.000	

T4180-03-SLF-04

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 3 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

10/3/03

ACKNOWLEDGMENT OF SAMPLES RECEIVED

File KB

Ground Water Protection Program

Richland, WA 99352
Attn: Steve Trent

Customer Code: GPP
PO#: 117504/ES20
Group#: 20031204
Project#: F03-007
Proj Mgr: STEVE TRENT
Phone: 373-5869

The following samples were received from you on 09/02/03. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Matrix	Sample Date
	Tests Scheduled		
W030000787	B17HR4	Water	09/02/03
	GPP		
	@2008 @8015GPP @AEA-30 @AEA-31 @AEA-32		
	@GEA-GPP @IC-30 @ICP-GPP @PCBGPP @RA22630 @RA22		
	@SVOCGPP @TPHD-WA @TPHG-WA @UISO-MS @VOA-GPP CN-02		
	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
@UISO-MS	Uranium Isotopic by ICP-MS
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
NH4-IC	Ammonia (N) by IC

MAN

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FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-007-019	Page 1 of 2
Collector Pfister/Pope/Hughes/Johansen	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 7N Air Quality ☐
Project Designation 200-PW-2/200-PW-4 OU - QC Sampling	Sampling Location 200-PW-4/Retention Basin		SAF No. F03-007	Data Turnaround 30 Days
Ice Chest No.	Field Logbook No. HNF-N-3361	COA 117504ES10	Method of Shipment Government Vehicle	
Shipped To Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.	

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POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

20031204

	Preservation	Type of Container	No. of Container(s)	Volume
	HCl to pH <2 Cool 4C	aGs*	3	40mL
	Cool 4C	aGs*	3	40mL
	Cool 4C	aG	4	1000mL
	HNO3 to pH <2	aG	2	1000mL
	Cooled to 4C	aG	4	1000mL
	None	P	1	500mL
	Cool 4C	P	1	1000mL
	HCl to pH <2 Cool 4C	aG	2	1000mL
	HCl to pH <2 Cool 4C	aG	2	1000mL
	NaOH to pH >=12	P	1	1000mL

SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	See item (4) in Special Instructions.	PCBs - 8082 [2]	Cations (IC) - 300.7 (Nitrogen in ammonium) [3]	See item (5) in Special Instructions.	TPH-Diesel Range - WTPH-D [4]	TPH-Gasoline Range - WTPH-G [7]	Cyanide (Total) - 335.2 [1]
B17HR4	X	X	X	X	X	X	X	X	X	X
W30000787										

Sample No.	Matrix *	Sample Date	Sample Time
B17HR4	WATER	9-2-03	1215
W30000787			

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature]	9-2-03 1435	[signature]	9-2-03 1435
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

Sign/Print Names

SPECIAL INSTRUCTIONS

** The laboratory is to report both kerosene and diesel range compounds from the WTPH-D analysis.

[1] (1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol, 2-Pentanone, n-Butylbenzene}
[2] (2) Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol, Methanol}
[3] (3) Semi-VOA - 8270A (TCL); Semi-VOA -- 8270A (Add-On) {2-Butoxyethanol, Benzyl alcohol, Tributyl phosphate}
[4] (4) Trace Elements ICP/MS - 200.8 (Complete) {Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Uranium}; Isotopic Uranium {Uranium-235, Uranium-238}; ICP Metals - 6010A (Add-on) {Bismuth, Boron}
[5] (5) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; ~~Chromium Hex - 7196~~ TMS 9-2-03

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

011 (03/01/2002)

FH-Central Plateau Project	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F03-007-019	Page 2 of 2
Collector Pfister/Pope/Hughes/Johansen	Company Contact LC Hulstrom	Telephone No. 373-3928	Project Coordinator TRENT, SJ	Price Code 7N Air Quality ☐
Project Designation 200-PW-2/200-PW-4 OU - QC Sampling	Sampling Location 200-PW-4/Retention Basin		SAF No. F03-007	Data Turnaround 30 Days
Ice Chest No.	Field Logbook No. HNF-N-3361	COA 117504ES10	Method of Shipment Government Vehicle	
Shipped To Waste Sampling & Characterization	Offsite Property No.		Bill of Lading/Air Bill No.	

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POSSIBLE SAMPLE HAZARDS/REMARKS Special Handling and/or Storage	Preservation	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2					
	Type of Container	P	P	P	P	P					
	No. of Container(s)	1	1	1	1	2					
	Volume	1000mL	1000mL	1000mL	1000mL	1000mL					
SAMPLE ANALYSIS		See item (1) in Special Instructions.	Americium-241	Isotopic Plutonium	Isotopic Uranium	Isotopic Radium (Radium-226, Radium-228)					
Sample No.	Matrix *	Sample Date	Sample Time								
B17HR4	WATER	9-2-03	1215	X	X	X	X	X			

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS	Matrix *
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	** The laboratory is to report both kerosene and diesel range compounds from the WTPH-D analysis. (1) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Gamma Spec - Add-on {Cesium-134, Tin-126}	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
9-2-03 1235		9-2-03 1235			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		

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

F-011 (03/01/2002)