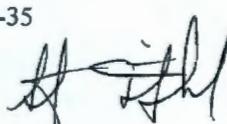


Fluor Hanford
 WSCF Analytical Lab
 P.O. Box 1000
 Richland, WA 99352
 Telephone 373-7495
 Telefax 372-0456

FLUOR

Memorandum

To: H. Hampt E6-35 Date: M4W41-SLF-07-573
 August 28, 2007

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

cc: w/Attachments
 T. F. Dale S3-30 S. J. Trent E6-35
 H. K. Meznarich S3-30 D. D. Wright S3-30
 P. D. Mix S3-30 File/LB
 J. E. Trechter S3-30

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20071068 – SAF NUMBER F07-058

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002
 (2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF20071068:

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- Analytical Results (Attachment 3)
- Sample Receipt Information (Attachment 4)
- Issue Resolution Form (Attachment 5)

SLF/grf

Attachments 5

RECEIVED
 JUN 26 2008

EDMC



M4W41-SLF-07-573

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20071068
Data Deliverable Date: 09-aug-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-058	B1NWH4 B1NWH5	W07GR01488 W07GR01489	WATER WATER

M4W41-SLF-07-573

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Sample Delivery Group	WSCF20071068
Sample Matrix	Water
Data Deliverable	Summary Report

Introduction

Two (2) groundwater samples were received at the WSCF Laboratory on June 25, 2007. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4. Additionally, a copy of the Issue Resolution Form (IRF) documenting laboratory error is included as Attachment 5.

It should be noted that the attached chain of custody was stamped “iced” and initialed by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 13 through 15, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See page 18 for QC details. Analytical Note(s):

- Sample results were D flagged if dilution(s) were required.
- Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1NW26 (SDG# 20071058, SAF# F06-027).

All QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 19 through 21 for QC details. Analytical Note(s):

- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1NV33 (SDG# 20071090, SAF# F07-028) and B1NWH4 of this SDG.
- Chromium contamination detected in the Blank was evaluated and there was no affect on sample results.

All other QC controls are within the established limits.

Organic Comments

Semi-VOA – The hold time requirements for this analysis were met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with this delivery group per the GPP Letter of Instruction. See pages 30 through 35 for QC details. Analytical Note(s):

- Bis (2-ethylhexyl) phthalate contamination detected in the Blank was evaluated and there was no affect on sample results.

All other QC controls are within the established limits.

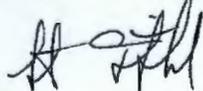
Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 39 through 43 for QC details. Analytical Note(s):

- Strontium-89,90 (Total) – Due to a Laboratory error, samples were not analyzed in a timely manner. Refer to Attachment 5 (IRF# 07-076) for detail.
- Gross Beta – Duplicate Relative Percent Difference (RPD) slightly exceeded established laboratory limits. No flags issued.
- Uranium-235,238 – Duplicate RPDs slightly exceeded established laboratory limits. No flags issued.

All QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Pauline D. Mix
WSCF Client Services

Attachment 2
Narrative

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/ĪB – 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

M4W41-SLF-07-573

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 37 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *S. Fitzgerald 8/28/07*

Client Services: *P.D. Mix 8/28/2007*

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

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20071068
Report Date: 28-aug-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20071068

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
32377	2	32769	36825	BLANK		Anions by Ion Chromatography
32377	12	32769	36825	BLANK		Anions by Ion Chromatography
32377	3	32769	36825	LCS		Anions by Ion Chromatography
32377	5	32769	36825	DUP	W07GR01486	Anions by Ion Chromatography
32377	6	32769	36825	MS	W07GR01486	Anions by Ion Chromatography
32377	7	32769	36825	MSD	W07GR01486	Anions by Ion Chromatography
32377	7	32769	36825	SPK-RPD	W07GR01486	Anions by Ion Chromatography
32377	8	32769	36825	SAMPLE	W07GR01488	Anions by Ion Chromatography
32377	9	32769	36825	SAMPLE	W07GR01489	Anions by Ion Chromatography
32593	1	32984	37061	BLANK		ICP-200.8 MS All possible meta
32593	2	32984	37061	LCS		ICP-200.8 MS All possible meta
32593	4	32984	37061	MS	W07GR01488	ICP-200.8 MS All possible meta
32593	5	32984	37061	MSD	W07GR01488	ICP-200.8 MS All possible meta
32593	3	32984	37061	SAMPLE	W07GR01488	ICP-200.8 MS All possible meta
32593	5	32984	37061	SPK-RPD	W07GR01488	ICP-200.8 MS All possible meta
32593	9	32984	37061	SAMPLE	W07GR01489	ICP-200.8 MS All possible meta
32593	7	32984	37061	MS	W07GR01526	ICP-200.8 MS All possible meta
32593	8	32984	37061	MSD	W07GR01526	ICP-200.8 MS All possible meta
32593	8	32984	37061	SPK-RPD	W07GR01526	ICP-200.8 MS All possible meta

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20071068

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			36912	BLANK		SW-846 8270C Semi-Vols
			36912	LCS		SW-846 8270C Semi-Vols
			36912	SAMPLE	W07GR01488	SW-846 8270C Semi-Vols
			36912	SURR	W07GR01488	SW-846 8270C Semi-Vols
			36912	MS	W07GR01489	SW-846 8270C Semi-Vols
			36912	MSD	W07GR01489	SW-846 8270C Semi-Vols
			36912	SAMPLE	W07GR01489	SW-846 8270C Semi-Vols
			36912	SPK-RPD	W07GR01489	SW-846 8270C Semi-Vols
			36912	SURR	W07GR01489	SW-846 8270C Semi-Vols

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20071068

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
32403	1	32794	36873	BLANK		Gross Alpha/Gross Beta (AB32)
32403	2	32794	36873	LCS		Gross Alpha/Gross Beta (AB32)
32403	3	32794	36873	DUP	W07GR01488	Gross Alpha/Gross Beta (AB32)
32403	4	32794	36873	SAMPLE	W07GR01488	Gross Alpha/Gross Beta (AB32)
32403	5	32794	36873	SAMPLE	W07GR01489	Gross Alpha/Gross Beta (AB32)
32490	1	32881	36955	BLANK		TC99 by Liquid Scin.
32490	4	32881	36955	LCS		TC99 by Liquid Scin.
32490	3	32881	36955	DUP	W07GR01488	TC99 by Liquid Scin.
32490	2	32881	36955	MS	W07GR01488	TC99 by Liquid Scin.
32490	7	32881	36955	SAMPLE	W07GR01488	TC99 by Liquid Scin.
32490	8	32881	36955	SAMPLE	W07GR01489	TC99 by Liquid Scin.
32548	1	32983	37052	BLANK		Uranium Isotopics by AEA
32548	2	32983	37052	LCS		Uranium Isotopics by AEA
32548	3	32983	37052	DUP	W07GR01488	Uranium Isotopics by AEA
32548	4	32983	37052	SAMPLE	W07GR01488	Uranium Isotopics by AEA
32548	5	32983	37052	SURR	W07GR01488	Uranium Isotopics by AEA
32548	6	32983	37052	SAMPLE	W07GR01489	Uranium Isotopics by AEA
32548	7	32983	37052	SURR	W07GR01489	Uranium Isotopics by AEA
32604	1	32995	37178	BLANK		Neptunium by AEA
32604	2	32995	37178	LCS		Neptunium by AEA
32604	3	32995	37178	DUP	W07GR01488	Neptunium by AEA
32604	5	32995	37178	MS	W07GR01488	Neptunium by AEA
32604	6	32995	37178	MSD	W07GR01488	Neptunium by AEA
32604	4	32995	37178	SAMPLE	W07GR01488	Neptunium by AEA
32604	6	32995	37178	SPK-RPD	W07GR01488	Neptunium by AEA
32604	8	32995	37178	MS	W07GR01489	Neptunium by AEA
32604	7	32995	37178	SAMPLE	W07GR01489	Neptunium by AEA
32993	1	33392	37493	BLANK		Strontium 89/90
32993	2	33392	37493	LCS		Strontium 89/90
32993	3	33392	37493	DUP	W07GR01488	Strontium 89/90
32993	4	33392	37493	SAMPLE	W07GR01488	Strontium 89/90
32993	5	33392	37493	SURR	W07GR01488	Strontium 89/90
32993	6	33392	37493	SAMPLE	W07GR01489	Strontium 89/90
32993	7	33392	37493	SURR	W07GR01489	Strontium 89/90

WSCF

METHOD REFERENCES REPORT

Department: Inorganic

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-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
HEIS 200.8_METALS_ICPMS	Inductively Coupled Plasma - Mass Spectrometry
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY
EPA-600/R-94-111 300.0	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
HEIS 300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 28-aug-2007
Report#: WSCF20071068
Report WGPPM/5.2

Page 3

WSCF

METHOD REFERENCES REPORT

Department: Organic

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

LA-523-456	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)
HEIS 8270_SVOA_GCMS	Semivolatile Organoc Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.ri.gov/phmc/as-dol>.

Report Date: 28-aug-2007
Report#: WSCF20071068
Report WGPPM/5.2

Page 1

WSCF

METHOD REFERENCES REPORT

Department: Radiochemistry

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-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS
HEIS ALPHA_GPC	GROSS ALPHA GPC
HEIS BETA_GPC	GROSS BETA GPC
HEIS SRTOT_SEP_PRECIP_GPC	Plutonium 89/90
LA-508-421	LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER
HEIS ALPHA_LSC	A/B Liquid Scintillation
HEIS BETA_LSC	A/B Liquid Scintillation
HEIS TC99_3MDSK_LSC	TC99 by Liquid Scintillation
HEIS TRITIUM_EIE_LSC	Tritium Liquid Scintillation
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP
HEIS PUIISO_IE_PRECIP_AEA	Plutonium by Alpha Energy Analysis
HEIS RAISO_AEA	Radium-226

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 28-aug-2007
Report#: WSCF20071088
Report WGPPM/5.2

Page 2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01488
Client ID: B1NWH4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20071068
Department: Inorganic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410		0.357	mg/L			1.00	6.0e-03		06/25/07
Nitrogen in Nitrite	NO2-N	LA-533-410	U	< 0.0100	mg/L			1.00	0.010		06/25/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	6.57	mg/L			10.00	0.050		06/25/07
ICP-200.8 MS All possible meta Prep											07/17/07
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		89.4	ug/L			1.00	0.100		07/18/07
Nickel	7440-02-0	LA-505-412		0.859	ug/L			1.00	0.200		07/18/07
Antimony	7440-38-0	LA-505-412	U	< 0.300	ug/L			1.00	0.300		07/18/07
Cadmium	7440-43-9	LA-505-412	U	< 0.100	ug/L			1.00	0.100		07/18/07
Chromium	7440-47-3	LA-505-412	U	< 0.500	ug/L			1.00	0.500		07/18/07
Vanadium	7440-62-2	LA-505-412		9.94	ug/L			1.00	0.200		07/18/07
Zinc	7440-66-6	LA-505-412		39.9	ug/L			1.00	0.800		07/18/07
Lead	7439-92-1	LA-505-412	U	< 0.100	ug/L			1.00	0.100		07/18/07
Uranium	7440-61-1	LA-505-412		3.00	ug/L			1.00	0.0500		07/18/07
Arsenic	7440-38-2	LA-505-412		1.54	ug/L			1.00	0.400		07/18/07
Thallium	7440-28-0	LA-505-412	U	< 0.100	ug/L			1.00	0.100		07/18/07

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

D - Analyte was identified at a secondary dilution factor(Inorg)

U - Analyzed for but not detected above limiting criteria.(org)

U - Analyzed for but not detected above limiting criteria(Inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01489
Client ID: B1NWH5

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Inorganic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410		0.363	mg/L			1.00	6.0e-03		06/25/07
Nitrogen in Nitrite	NO2-N	LA-533-410	U	< 0.0100	mg/L			1.00	0.010		06/25/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	6.54	mg/L			10.00	0.050		06/25/07
ICP-200.8 MS All possible meta Prep											07/17/07
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		90.3	ug/L			1.00	0.100		07/18/07
Nickel	7440-02-0	LA-505-412		0.856	ug/L			1.00	0.200		07/18/07
Antimony	7440-36-0	LA-505-412	U	< 0.300	ug/L			1.00	0.300		07/18/07
Cadmium	7440-43-9	LA-505-412	U	< 0.100	ug/L			1.00	0.100		07/18/07
Chromium	7440-47-3	LA-505-412	U	< 0.500	ug/L			1.00	0.500		07/18/07
Vanadium	7440-82-2	LA-505-412		9.51	ug/L			1.00	0.200		07/18/07
Zinc	7440-66-6	LA-505-412		39.8	ug/L			1.00	0.800		07/18/07
Lead	7439-92-1	LA-505-412		0.108	ug/L			1.00	0.100		07/18/07
Uranium	7440-61-1	LA-505-412		3.00	ug/L			1.00	0.0500		07/18/07
Arsenic	7440-38-2	LA-505-412		1.31	ug/L			1.00	0.400		07/18/07
Thallium	7440-28-0	LA-505-412	U	< 0.100	ug/L			1.00	0.100		07/18/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

D - Analyte was identified at a secondary dilution factor (inorg)

U - Analyzed for but not detected above limiting criteria (inorg)

U - Analyzed for but not detected above limiting criteria (inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 06/22/07
 Receive Date: 06/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W07GR01486
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Fluoride	16984-48-8	<3e-2		RPD			n/a	20.000	U	06/25/07
DUP	Nitrogen in Nitrite	NO2-N	<5e-2		RPD			n/a	20.000	U	06/25/07
DUP	Nitrogen in Nitrate	NO3-N	8.7e-2		RPD			11.177	20.000		06/25/07
MS	Fluoride	16984-48-8	0.46416	92.462	% Recov	75.000	125.000				06/25/07
MS	Nitrogen in Nitrite	NO2-N	0.45686	92.669	% Recov	75.000	125.000				06/25/07
MS	Nitrogen in Nitrate	NO3-N	0.4506	99.911	% Recov	75.000	125.000				06/25/07
MSD	Fluoride	16984-48-8	0.48172	95.960	% Recov	75.000	125.000				06/25/07
MSD	Nitrogen in Nitrite	NO2-N	0.4837	98.114	% Recov	75.000	125.000				06/25/07
MSD	Nitrogen in Nitrate	NO3-N	0.4501	99.800	% Recov	75.000	125.000				06/25/07
SPK-RPD	Fluoride	16984-48-8	95.960		RPD			3.713	20.000		06/25/07
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.114		RPD			5.708	20.000		06/25/07
SPK-RPD	Nitrogen in Nitrate	NO3-N	99.800		RPD			0.111	20.000		06/25/07

BATCH QC

BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	06/25/07
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	06/25/07
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	06/25/07
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	06/25/07
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	06/25/07
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	06/25/07
LCS	Fluoride	16984-48-8	108.8613	107.783	% Recov	80.000	120.000				06/25/07
LCS	Nitrogen in Nitrite	NO2-N	101.8283	102.237	% Recov	80.000	120.000				06/25/07
LCS	Nitrogen in Nitrate	NO3-N	93.9987	103.069	% Recov	80.000	120.000				06/25/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: ICP-200.8 MS All possible meta

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W07GR01488
 BATCH QC ASSOCIATED WITH SAMPLE

MS	Arsenic	7440-38-2	36.773	91.933	% Recov	70.000	130.000				07/18/07
MS	Cadmium	7440-43-9	36.35	90.875	% Recov	70.000	130.000				07/18/07
MS	Chromium	7440-47-3	36.1	90.250	% Recov	70.000	130.000				07/18/07
MS	Manganese	7439-96-5	34.64	86.600	% Recov	70.000	130.000				07/18/07
MS	Nickel	7440-02-0	35.2414	88.103	% Recov	70.000	130.000				07/18/07
MS	Lead	7439-92-1	39.9	99.750	% Recov	70.000	130.000				07/18/07
MS	Antimony	7440-36-0	45.43	113.575	% Recov	70.000	130.000				07/18/07
MS	Thallium	7440-28-0	38.7	96.750	% Recov	70.000	130.000				07/18/07
MS	Uranium	7440-61-1	39.561	98.903	% Recov	70.000	130.000				07/18/07
MS	Vanadium	7440-62-2	36.652	91.630	% Recov	70.000	130.000				07/18/07
MS	Zinc	7440-66-8	34.34	85.850	% Recov	70.000	130.000				07/18/07
MSD	Arsenic	7440-38-2	37.093	92.733	% Recov	70.000	130.000				07/18/07
MSD	Cadmium	7440-43-9	36.91	92.275	% Recov	70.000	130.000				07/18/07
MSD	Chromium	7440-47-3	36.82	91.550	% Recov	70.000	130.000				07/18/07
MSD	Manganese	7439-96-5	35.54	88.850	% Recov	70.000	130.000				07/18/07
MSD	Nickel	7440-02-0	35.4814	88.704	% Recov	70.000	130.000				07/18/07
MSD	Lead	7439-92-1	40.36	100.900	% Recov	70.000	130.000				07/18/07
MSD	Antimony	7440-36-0	45.92	114.800	% Recov	70.000	130.000				07/18/07
MSD	Thallium	7440-28-0	39.23	98.075	% Recov	70.000	130.000				07/18/07
MSD	Uranium	7440-61-1	39.821	99.552	% Recov	70.000	130.000				07/18/07
MSD	Vanadium	7440-62-2	36.442	91.105	% Recov	70.000	130.000				07/18/07
MSD	Zinc	7440-66-8	33.57	83.925	% Recov	70.000	130.000				07/18/07
SPK-RPD	Arsenic	7440-38-2	92.733		RPD			0.866	20.000		07/18/07
SPK-RPD	Cadmium	7440-43-9	92.275		RPD			1.529	20.000		07/18/07
SPK-RPD	Chromium	7440-47-3	91.550		RPD			1.430	20.000		07/18/07
SPK-RPD	Manganese	7439-96-5	88.850		RPD			2.565	20.000		07/18/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071068

Matrix: WATER

Test: ICP-200.8 MS All possible meta

Sample Date: 06/25/07

Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Nickel	7440-02-0	88.704		RPD			0.680	20.000		07/18/07
SPK-RPD	Lead	7439-92-1	100.900		RPD			1.146	20.000		07/18/07
SPK-RPD	Antimony	7440-36-0	114.800		RPD			1.073	20.000		07/18/07
SPK-RPD	Thallium	7440-28-0	98.075		RPD			1.360	20.000		07/18/07
SPK-RPD	Uranium	7440-61-1	99.552		RPD			0.654	20.000		07/18/07
SPK-RPD	Vanadium	7440-62-2	91.105		RPD			0.575	20.000		07/18/07
SPK-RPD	Zinc	7440-66-6	83.925		RPD			2.268	20.000		07/18/07

Lab ID: W07GR01526

BATCH QC ASSOCIATED WITH SAMPLE

MS	Arsenic	7440-38-2	38.137	95.343	% Recov	70.000	130.000				07/18/07
MS	Cadmium	7440-43-9	36.95	92.375	% Recov	70.000	130.000				07/18/07
MS	Chromium	7440-47-3	37.6468	94.117	% Recov	70.000	130.000				07/18/07
MS	Manganese	7439-96-5	37.42	93.550	% Recov	70.000	130.000				07/18/07
MS	Nickel	7440-02-0	37.3927	93.482	% Recov	70.000	130.000				07/18/07
MS	Antimony	7440-36-0	45.67	114.175	% Recov	70.000	130.000				07/18/07
MS	Vanadium	7440-62-2	37.666	94.165	% Recov	70.000	130.000				07/18/07
MS	Zinc	7440-66-6	35.075	87.688	% Recov	70.000	130.000				07/18/07
MSD	Arsenic	7440-38-2	37.197	92.993	% Recov	70.000	130.000				07/18/07
MSD	Cadmium	7440-43-9	36.4	91.000	% Recov	70.000	130.000				07/18/07
MSD	Chromium	7440-47-3	37.0368	92.592	% Recov	70.000	130.000				07/18/07
MSD	Manganese	7439-96-5	36.74	91.850	% Recov	70.000	130.000				07/18/07
MSD	Nickel	7440-02-0	36.8927	92.232	% Recov	70.000	130.000				07/18/07
MSD	Antimony	7440-36-0	45	112.500	% Recov	70.000	130.000				07/18/07
MSD	Vanadium	7440-62-2	37.206	93.015	% Recov	70.000	130.000				07/18/07
MSD	Zinc	7440-66-6	34.105	85.263	% Recov	70.000	130.000				07/18/07
SPK-RPD	Arsenic	7440-38-2	92.993		RPD			2.496	20.000		07/18/07
SPK-RPD	Cadmium	7440-43-9	91.000		RPD			1.500	20.000		07/18/07
SPK-RPD	Chromium	7440-47-3	92.592		RPD			1.634	20.000		07/18/07
SPK-RPD	Manganese	7439-96-5	91.850		RPD			1.834	20.000		07/18/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: ICP-200.8 MS All possible meta

Sample Date: 06/27/07
 Receive Date: 06/27/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Nickel	7440-02-0	92.232		RPD			1.346	20.000		07/18/07
SPK-RPD	Antimony	7440-36-0	112.500		RPD			1.478	20.000		07/18/07
SPK-RPD	Vanadium	7440-82-2	93.015		RPD			1.228	20.000		07/18/07
SPK-RPD	Zinc	7440-86-6	85.263		RPD			2.804	20.000		07/18/07

BATCH QC

BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	07/18/07
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	07/18/07
BLANK	Chromium	7440-47-3	0.582	0.582	ug/L						07/18/07
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	07/18/07
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	07/18/07
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	07/18/07
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	07/18/07
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	07/18/07
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	07/18/07
BLANK	Vanadium	7440-82-2	<0.2	n/a	ug/L					U	07/18/07
BLANK	Zinc	7440-86-6	<0.8	n/a	ug/L					U	07/18/07
LCS	Arsenic	7440-38-2	36.55	91.375	% Recov	85.000	115.000				07/18/07
LCS	Cadmium	7440-43-9	37.05	92.625	% Recov	85.000	115.000				07/18/07
LCS	Chromium	7440-47-3	38.28	95.700	% Recov	85.000	115.000				07/18/07
LCS	Manganese	7439-96-5	37.74	94.350	% Recov	85.000	115.000				07/18/07
LCS	Nickel	7440-02-0	38.36	95.900	% Recov	85.000	115.000				07/18/07
LCS	Lead	7439-92-1	38.97	97.425	% Recov	85.000	115.000				07/18/07
LCS	Antimony	7440-36-0	44.79	111.975	% Recov	85.000	115.000				07/18/07
LCS	Thallium	7440-28-0	37.74	94.350	% Recov	85.000	115.000				07/18/07
LCS	Uranium	7440-61-1	37.53	93.825	% Recov	85.000	115.000				07/18/07
LCS	Vanadium	7440-82-2	37.75	94.375	% Recov	85.000	115.000				07/18/07
LCS	Zinc	7440-86-6	36.72	91.800	% Recov	85.000	115.000				07/18/07

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-058

Group #: WSCF20071068
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>W07GR01488-1489/Gross beta duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. Imh</p> <p>SVOA: Slight amount of bis(2-ethylhexyl)phthalate found in the blank. None detected in samples. All other QC meets or exceeds recovery limits. The same QC applies to the dimethoate results as the rest of the SVOA data. cgc</p> <p>U-235 duplicate is flagged for poor RPD however, the sample activity is low level. RPD does not apply to low level samples. Imh</p> <p>U-238 duplicate is flagged for poor RPD. Since it is only slightly out of limits and all the other QC checks came out fine, this batch has been approved. Imh</p> <p>below the MDL. No flag</p> <p>ICP-MS: Chromium Prep blank above the MDL, but the sample results are below the MDL. No flags</p>

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample #: W07GR01488
Client ID: B1NWH4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
SW-846 8270C Semi-Vols Prep											07/02/07
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
Phenol	108-95-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 2.10	ug/L			1.00	2.1		07/05/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Pyrene	129-00-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
Acenaphthene	83-32-9	LA-523-456	U	< 2.50	ug/L			1.00	2.5		07/05/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 1.40	ug/L			1.00	1.4		07/05/07
2-Chlorophenol	95-57-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Nitroaniline	100-01-6	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
4-Bromophenyphenyl ether	101-55-3	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
2,4-Dimethylphenol	105-87-9	LA-523-456	U	< 0.900	ug/L			1.00	0.90		07/05/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 0.860	ug/L			1.00	0.86		07/05/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 0.760	ug/L			1.00	0.76		07/05/07
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Anthracene	120-12-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

D - Analyte was identified at a secondary dilution factor.(inorg)

U - Analyzed for but not detected above limiting criteria.(org)

U - Analyzed for but not detected above limiting criteria.(inorg)

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01488
Client ID: B1NWH4

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Dimethyl phthalate	131-11-3	LA-523-456		21.0	ug/L			1.00	0.48		07/05/07
Dibenzofuran	132-84-9	LA-523-456	U	< 2.10	ug/L			1.00	2.1		07/05/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Fluoranthene	206-44-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Acenaphthylene	208-96-8	LA-523-456	U	< 2.20	ug/L			1.00	2.2		07/05/07
Chrysene	218-01-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 1.90	ug/L			1.00	1.9		07/05/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 1.60	ug/L			1.00	1.6		07/05/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 4.80	ug/L			1.00	4.8		07/05/07
Isophorone	78-59-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Diethylphthalate	84-88-2	LA-523-456	U	< 1.80	ug/L			1.00	1.8		07/05/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 2.20	ug/L			1.00	2.2		07/05/07
Phenanthrene	85-01-8	LA-523-456	U	< 0.520	ug/L			1.00	0.52		07/05/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Fluorene	86-73-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

U - Analyzed for but not detected above limiting criteria.(org)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01488
Client ID: BINWH4

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Carbazole	86-74-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachlorobutadiene	87-88-3	LA-523-456	U	< 1.90	ug/L			1.00	1.9		07/05/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Naphthalene	91-20-3	LA-523-456	U	< 2.00	ug/L			1.00	2.0		07/05/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 2.90	ug/L			1.00	2.9		07/05/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 3.30	ug/L			1.00	3.3		07/05/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 0.760	ug/L			1.00	0.76		07/05/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 1.40	ug/L			1.00	1.4		07/05/07
2,4,6-Trichlorophenol	95-95-4	LA-523-456	U	< 0.620	ug/L			1.00	0.62		07/05/07
Nitrobenzene	98-95-3	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
3-Nitroaniline	99-09-2	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachloroethane	67-72-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Dimethoate	60-51-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

D - Analyte was identified at a secondary dilution factor.(inorg)

U - Analyzed for but not detected above limiting criteria.(org)

U - Analyzed for but not detected above limiting criteria.(inorg)

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01489
Client ID: BINWH5

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
SW-846 8270C Semi-Vols Prep											
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
Phenol	108-95-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 2.10	ug/L			1.00	2.1		07/05/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Pyrene	129-00-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
N-Nitrosodi-n-dipropylamine	621-84-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
Acenaphthene	83-32-9	LA-523-456	U	< 2.50	ug/L			1.00	2.5		07/05/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 1.40	ug/L			1.00	1.4		07/05/07
2-Chlorophenol	95-57-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Nitroaniline	100-01-8	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 0.900	ug/L			1.00	0.90		07/05/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Bis(2-chloro-1-methylethyl)eth	108-80-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 0.860	ug/L			1.00	0.86		07/05/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 0.760	ug/L			1.00	0.76		07/05/07
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Anthracene	120-12-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.(org)

U - Analyzed for but not detected above limiting criteria(inorg)

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01489
Client ID: B1NWH5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Dimethyl phthalate	131-11-3	LA-523-456		20.0	ug/L			1.00	0.48		07/05/07
Dibenzofuran	132-64-9	LA-523-456	U	< 2.10	ug/L			1.00	2.1		07/05/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Fluoranthene	206-44-0	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Acenaphthylene	208-98-8	LA-523-456	U	< 2.20	ug/L			1.00	2.2		07/05/07
Chrysene	218-01-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 1.90	ug/L			1.00	1.9		07/05/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 0.950	ug/L			1.00	0.95		07/05/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2,6-Dinitrotoluene	608-20-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
4-Chlorophonylphenyl ether	7005-72-3	LA-523-456	U	< 1.80	ug/L			1.00	1.8		07/05/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 4.80	ug/L			1.00	4.8		07/05/07
Isophorone	78-59-1	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Diethylphthalate	84-86-2	LA-523-456	U	< 1.80	ug/L			1.00	1.8		07/05/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 2.20	ug/L			1.00	2.2		07/05/07
Phenanthrene	85-01-8	LA-523-456	U	< 0.520	ug/L			1.00	0.52		07/05/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Fluorene	86-73-7	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07

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RQ = Result Qualifier

TP Err = Total Propagated Error

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D - Analyte was identified at a secondary dilution factor.(inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01489
Client ID: B1NWH5

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Organic
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Carbazole	86-74-8	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 1.90	ug/L			1.00	1.9		07/05/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Naphthalene	91-20-3	LA-523-466	U	< 2.00	ug/L			1.00	2.0		07/05/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 2.90	ug/L			1.00	2.9		07/05/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 3.30	ug/L			1.00	3.3		07/05/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 0.760	ug/L			1.00	0.76		07/05/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 1.40	ug/L			1.00	1.4		07/05/07
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 0.620	ug/L			1.00	0.62		07/05/07
Nitrobenzene	98-95-3	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
3-Nitroaniline	99-09-2	LA-523-456	U	< 0.570	ug/L			1.00	0.57		07/05/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Hexachloroethane	67-72-1	LA-523-456	U	< 1.30	ug/L			1.00	1.3		07/05/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07
Dimethoate	60-51-5	LA-523-456	U	< 0.480	ug/L			1.00	0.48		07/05/07

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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D - Analyte was identified at a secondary dilution factor(inorg)

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U - Analyzed for but not detected above limiting criteria(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-058 :F07-058

Group #: WSCF20071068
Department: Organic

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01489	B1NWH5 TRENT	SW-846 8270C Semi-Vols	SMP 8.515 Benzothiazole	95-16-9	8.51575		0.88	ug/L

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPE v 5.2 Report#: WSCF20071068

Report Date: 28-aug-2007

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20071068
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W07GR01488
BATCH QC ASSOCIATED WITH SAMPLE

SURR	2-Fluorophenol(Surr)	367-12-4	18.496	97.100	% Recov	50.000	110.000				07/05/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	13.494	70.800	% Recov	58.000	109.000				07/05/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	18.218	95.600	% Recov	60.000	118.000				07/05/07
SURR	Phenol-d5(Surr)	4165-62-2	18.865	99.000	% Recov	59.000	116.000				07/05/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	18.753	98.500	% Recov	60.000	120.000				07/05/07
SURR	Terphenyl-d14(Surr)	98904-43-9	18.163	95.400	% Recov	60.000	120.000				07/05/07

Lab ID: W07GR01489
BATCH QC ASSOCIATED WITH SAMPLE

MS	1,2,4-Trichlorobenzene	120-82-1	13.861	71.700	% Recov	50.000	120.000				07/05/07
MS	1,4-Dichlorobenzene	106-46-7	12.579	66.000	% Recov	41.000	113.000				07/05/07
MS	2,4-Dinitrotoluene	121-14-2	18.120	95.100	% Recov	65.000	109.000				07/05/07
MS	2-Fluorophenol(Surr)	367-12-4	17.588	92.300	% Recov	50.000	110.000				07/05/07
MS	Acenaphthene	83-32-9	17.085	89.700	% Recov	62.000	112.000				07/05/07
MS	4-Chloro-3-methylphenol	59-50-7	29.215	102.000	% Recov	59.000	115.000				07/05/07
MS	2-Chlorophenol	95-57-8	26.399	92.400	% Recov	69.000	111.000				07/05/07
MS	N-Nitrosodi-n-dipropylamine	621-64-7	17.763	93.300	% Recov	69.000	115.000				07/05/07
MS	2-Fluorobiphenyl(Surr)	321-60-8	13.869	72.800	% Recov	58.000	109.000				07/05/07
MS	Phenol	108-95-2	26.618	93.200	% Recov	59.000	115.000				07/05/07
MS	Nitrobenzene-d5(Surr)	4165-60-0	17.717	93.000	% Recov	60.000	118.000				07/05/07
MS	4-Nitrophenol	100-02-7	27.889	97.600	% Recov	32.000	130.000				07/05/07
MS	Pentachlorophenol	87-86-5	27.889	97.600	% Recov	51.000	121.000				07/05/07
MS	Phenol-d5(Surr)	4165-62-2	18.064	94.800	% Recov	59.000	116.000				07/05/07
MS	Pyrene	129-00-0	17.122	89.900	% Recov	58.000	116.000				07/05/07
MS	2,4,6-Tribromophenol(Surr)	118-79-6	18.372	102.000	% Recov	60.000	120.000				07/05/07
MS	Terphenyl-d14(Surr)	98904-43-9	17.339	81.000	% Recov	60.000	120.000				07/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	1,2,4-Trichlorobenzene	120-82-1	13.311	69.900	% Recov	50.000	120.000				07/05/07
MSD	1,4-Dichlorobenzene	106-46-7	13.300	69.800	% Recov	41.000	113.000				07/05/07
MSD	2,4-Dinitrotoluene	121-14-2	17.905	94.000	% Recov	65.000	109.000				07/05/07
MSD	2-Fluorophenol(Surr)	367-12-4	17.261	90.600	% Recov	50.000	110.000				07/05/07
MSD	Acanaphthene	83-32-9	16.652	87.400	% Recov	62.000	112.000				07/05/07
MSD	4-Chloro-3-methylphenol	59-50-7	28.697	100.000	% Recov	59.000	115.000				07/05/07
MSD	2-Chlorophenol	95-57-8	27.059	94.700	% Recov	69.000	111.000				07/05/07
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	18.463	96.900	% Recov	69.000	115.000				07/05/07
MSD	2-Fluorobiphenyl(Surr)	321-60-8	14.390	75.500	% Recov	58.000	109.000				07/05/07
MSD	Phenol	108-95-2	27.936	97.800	% Recov	59.000	115.000				07/05/07
MSD	Nitrobenzene-d5(Surr)	4165-60-0	17.480	91.800	% Recov	60.000	118.000				07/05/07
MSD	4-Nitrophenol	100-02-7	24.529	85.900	% Recov	32.000	130.000				07/05/07
MSD	Pentachlorophenol	87-86-5	27.236	95.300	% Recov	51.000	121.000				07/05/07
MSD	Phenol-d5(Surr)	4165-62-2	18.500	97.100	% Recov	59.000	116.000				07/05/07
MSD	Pyrene	129-00-0	17.431	91.500	% Recov	58.000	116.000				07/05/07
MSD	2,4,6-Trifluorophenol(Surr)	118-79-6	18.672	98.000	% Recov	60.000	120.000				07/05/07
MSD	Terphenyl-d14(Surr)	98904-43-9	17.345	91.100	% Recov	60.000	120.000				07/05/07
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	69.900		RPD			2.542	25.000		07/05/07
SPK-RPD	1,4-Dichlorobenzene	106-46-7	69.800		RPD			5.596	25.000		07/05/07
SPK-RPD	2,4-Dinitrotoluene	121-14-2	94.000		RPD			1.163	25.000		07/05/07
SPK-RPD	2-Fluorophenol(Surr)	367-12-4	90.600		RPD			1.859	25.000		07/05/07
SPK-RPD	Acanaphthene	83-32-9	87.400		RPD			2.597	25.000		07/05/07
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	100.000		RPD			1.980	25.000		07/05/07
SPK-RPD	2-Chlorophenol	95-57-8	94.700		RPD			2.459	25.000		07/05/07
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	96.900		RPD			3.785	25.000		07/05/07
SPK-RPD	2-Fluorobiphenyl(Surr)	321-60-8	75.500		RPD			3.641	25.000		07/05/07
SPK-RPD	Phenol	108-95-2	97.800		RPD			4.817	18.000		07/05/07
SPK-RPD	Nitrobenzene-d5(Surr)	4165-60-0	91.800		RPD			1.299	25.000		07/05/07
SPK-RPD	4-Nitrophenol	100-02-7	85.900		RPD			12.752	25.000		07/05/07
SPK-RPD	Pentachlorophenol	87-86-5	95.300		RPD			2.385	25.000		07/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Phenol-d5(Surr)	4165-62-2	97.100		RPD			2.397	25.000		07/05/07
SPK-RPD	Pyrene	129-00-0	91.500		RPD			1.764	25.000		07/05/07
SPK-RPD	2,4,6-Tribromophenol(Surr)	118-79-6	98.000		RPD			4.000	25.000		07/05/07
SPK-RPD	Terphenyl-d14(Surr)	98904-43-9	91.100		RPD			0.110	25.000		07/05/07
SURR	2-Fluorophenol(Surr)	367-12-4	17.612	92.500	% Recov	50.000	110.000				07/05/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	12.459	65.400	% Recov	58.000	109.000				07/05/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	17.834	93.600	% Recov	60.000	118.000				07/05/07
SURR	Phenol-d5(Surr)	4165-62-2	16.741	87.900	% Recov	59.000	116.000				07/05/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	19.266	101.000	% Recov	60.000	120.000				07/05/07
SURR	Terphenyl-d14(Surr)	98904-43-9	18.321	96.200	% Recov	60.000	120.000				07/05/07

BATCH QC

BLANK	1,2-Dichlorobenzene	95-50-1	< 1.5	n/a	ug/L					U	07/05/07
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 2.2	n/a	ug/L					U	07/05/07
BLANK	1,3-Dichlorobenzene	541-73-1	< 1.3	n/a	ug/L					U	07/05/07
BLANK	1,4-Dichlorobenzene	106-46-7	< 1.4	n/a	ug/L					U	07/05/07
BLANK	2,4-Dichlorophenol	120-83-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2,4-Dinitrotoluene	121-14-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2,4,5-Trichlorophenol	95-95-4	< 0.65	n/a	ug/L					U	07/05/07
BLANK	2,4,6-Trichlorophenol	68-06-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2,4-Dimethylphenol	105-67-9	< 0.95	n/a	ug/L					U	07/05/07
BLANK	2,6-Dinitrotoluene	606-20-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2-Chloronaphthalene	91-58-7	< 3.5	n/a	ug/L					U	07/05/07
BLANK	2-Fluorophenol(Surr)	367-12-4	17.570	87.900	% Recov	50.000	110.000				07/05/07
BLANK	2-Methylnaphthalene	91-57-6	< 3.0	n/a	ug/L					U	07/05/07
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2-Nitroaniline	88-74-4	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2-Nitrophenol	88-75-5	< 0.50	n/a	ug/L					U	07/05/07
BLANK	3 & 4 Methylphenol Total	65794-86-9	< 0.50	n/a	ug/L	0.000	5.000			U	07/05/07
BLANK	3-Nitroaniline	99-09-2	< 0.60	n/a	ug/L					U	07/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071068

Matrix: WATER

Test: SW-846 8270C Semi-Vols

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 1.0	n/a	ug/L					U	07/05/07
BLANK	4-Bromophenylphenyl ether	101-55-3	< 1.0	n/a	ug/L					U	07/05/07
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 1.7	n/a	ug/L					U	07/05/07
BLANK	Acenaphthene	83-32-9	< 2.8	n/a	ug/L					U	07/05/07
BLANK	Acenaphthylene	208-96-8	< 2.3	n/a	ug/L					U	07/05/07
BLANK	Anthracene	120-12-7	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 0.90	n/a	ug/L					U	07/05/07
BLANK	Benzo(a)anthracene	56-55-3	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Benzo(b)fluoranthene	205-99-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Benzo(ghi)perylene	191-24-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Benzo(a)pyrene	50-32-8	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	2.4	2,400	ug/L						07/05/07
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 1.0	n/a	ug/L	0.000	10.000			U	07/05/07
BLANK	Benzo(k)fluoranthene	207-08-9	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Butylbenzylphthalate	85-68-7	< 0.60	n/a	ug/L					U	07/05/07
BLANK	Carbazole	86-74-8	< 0.50	n/a	ug/L					U	07/05/07
BLANK	4-Chloroaniline	106-47-8	< 0.50	n/a	ug/L					U	07/05/07
BLANK	4-Chloro-3-methylphenol	59-50-7	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2-Chlorophenol	95-57-8	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Chrysene	218-01-9	< 0.50	n/a	ug/L					U	07/05/07
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 0.80	n/a	ug/L					U	07/05/07
BLANK	Dibenz[a,h]anthracene	53-70-3	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Dibenzofuran	132-64-9	< 2.2	n/a	ug/L					U	07/05/07
BLANK	Di-n-butylphthalate	84-74-2	< 2.3	n/a	ug/L					U	07/05/07
BLANK	Diethylphthalate	84-66-2	< 1.9	n/a	ug/L					U	07/05/07
BLANK	Dimethyl phthalate	131-11-3	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2,4-Dinitrophenol	51-28-5	< 2.0	n/a	ug/L					U	07/05/07
BLANK	Di-n-octylphthalate	117-84-0	< 0.50	n/a	ug/L					U	07/05/07
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 0.60	n/a	ug/L					U	07/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071068
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Dimethoate	60-51-5	< 0.50	n/a	ug/kg					U	07/05/07
BLANK	2-Fluorobiphenyl(Surr)	321-60-8	14.118	70.600	% Recov	58.000	109.000				07/05/07
BLANK	Fluorene	86-73-7	< 1.4	n/a	ug/L					U	07/05/07
BLANK	Fluoranthene	206-44-0	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Hexachlorobenzene	118-74-1	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Hexachlorobutadiene	87-68-3	< 2.0	n/a	ug/L					U	07/05/07
BLANK	Hexachlorocyclopentadiene	77-47-4	< 5.0	n/a	ug/L					U	07/05/07
BLANK	Hexachloroethane	67-72-1	< 1.4	n/a	ug/L					U	07/05/07
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Isophorone	78-59-1	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Phenol	108-95-2	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Naphthalene	91-20-3	< 2.1	n/a	ug/L					U	07/05/07
BLANK	Nitrobenzene-d5(Surr)	4165-60-0	19.282	96.400	% Recov	60.000	118.000				07/05/07
BLANK	Nitrobenzene	98-95-3	< 0.60	n/a	ug/L					U	07/05/07
BLANK	4-Nitrophenol	100-02-7	< 1.0	n/a	ug/L					U	07/05/07
BLANK	4-Nitroaniline	100-01-6	< 1.0	n/a	ug/L					U	07/05/07
BLANK	N-Nitrosodiphenylamine	86-30-6	< 0.50	n/a	ug/L					U	07/05/07
BLANK	Pentachlorophenol	87-86-5	< 1.5	n/a	ug/L					U	07/05/07
BLANK	Phenanthrene	85-01-8	< 0.55	n/a	ug/L					U	07/05/07
BLANK	Phenol-d5(Surr)	4165-82-2	18.372	91.900	% Recov	59.000	116.000				07/05/07
BLANK	Pyrene	129-00-0	< 0.50	n/a	ug/L					U	07/05/07
BLANK	2,4,6-Tribromophenol(Surr)	118-79-8	17.499	87.500	% Recov	60.000	120.000				07/05/07
BLANK	Terphenyl-d14(Surr)	98904-43-9	18.627	93.100	% Recov	60.000	120.000				07/05/07
LCS	1,2,4-Trichlorobenzene	120-82-1	15.025	75.100	% Recov	46.000	107.000				07/05/07
LCS	1,4-Dichlorobenzene	106-46-7	14.542	72.700	% Recov	42.000	111.000				07/05/07
LCS	2,4-Dinitrotoluene	121-14-2	18.562	92.800	% Recov	59.000	106.000				07/05/07
LCS	2-Fluorophenol(Surr)	367-12-4	18.761	93.800	% Recov	50.000	110.000				07/05/07
LCS	Acenaphthene	83-32-9	15.876	79.400	% Recov	61.000	116.000				07/05/07
LCS	4-Chloro-3-methylphenol	59-50-7	29.921	99.700	% Recov	61.000	106.000				07/05/07
LCS	2-Chlorophenol	95-57-8	27.469	91.600	% Recov	68.000	106.000				07/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20071068
 Matrix: WATER
 Test: SW-846 8270C Semi-Vols

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	18.998	95.000	% Recov	71.000	114.000				07/05/07
LCS	2-Fluorobiphenyl(Surr)	321-80-8	14.160	70.800	% Recov	58.000	109.000				07/05/07
LCS	Phenol	108-95-2	27.972	93.200	% Recov	67.000	105.000				07/05/07
LCS	Nitrobenzene-d5(Surr)	4165-60-0	19.319	98.600	% Recov	60.000	118.000				07/05/07
LCS	4-Nitrophenol	100-02-7	25.620	85.400	% Recov	32.000	118.000				07/05/07
LCS	Pentachlorophenol	87-86-5	23.782	79.300	% Recov	62.000	114.000				07/05/07
LCS	Phenol-d5(Surr)	4165-62-2	19.292	96.500	% Recov	59.000	118.000				07/05/07
LCS	Pyrene	129-00-0	18.452	92.300	% Recov	66.000	118.000				07/05/07
LCS	2,4,6-Tribromophenol(Surr)	118-79-6	18.181	90.900	% Recov	60.000	120.000				07/05/07
LCS	Terphenyl-d14(Surr)	98904-43-9	18.957	94.800	% Recov	60.000	120.000				07/05/07

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-058

Group #: WSCF20071068
Department: Organic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>W07GR01488-1489/Gross beta duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. Imh</p> <p>SVOA: Slight amount of bis(2-ethylhexyl)phthalate found in the blank. None detected in samples. All other QC meets or exceeds recovery limits. The same QC applies to the dimethoate results as the rest of the SVOA data. cgc</p> <p>U-235 duplicate is flagged for poor RPD however, the sample activity is low level. RPD does not apply to low level samples. Imh</p> <p>U-238 duplicate is flagged for poor RPD. Since it is only slightly out of limits and all the other QC checks came out fine, this batch has been approved. Imh below the MDL. No flag ICP-MS: Chromium Prep blank above the MDL, but the sample results are below the MDL. No flags</p>

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20071068

Report Date: 28-aug-2007

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01488
Client ID: B1NWH4

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20071068
Department: Radiochemistry
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		3.10	pCi/L	+ -1.55	pCi/L	1.00	1.5		07/02/07
Gross beta	12587-47-2	LA-508-415		38.0	pCi/L	+ -4.88	pCi/L	1.00	2.8		07/02/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471		0.0310	pCi/L	+ -0.0223	pCi/L	1.00	0.010		07/18/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		14.0	pCi/L	+ -22.8	pCi/L	1.00	9.0		08/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		87.3	Percent			1.00	0.0		08/16/07
TC99 by Liquid Scin.											
Technetium-99	14133-78-7	LA-508-421		38.0	pCi/L	+ -8.19	pCi/L	1.00	2.8		07/09/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		1.50	pCi/L	+ -0.420	pCi/L	1.00	0.031		07/13/07
Uranium-235	15117-98-1	LA-508-471		0.0800	pCi/L	+ -0.0390	pCi/L	1.00	0.034		07/13/07
Uranium-238	U-238	LA-508-471		1.10	pCi/L	+ -0.308	pCi/L	1.00	0.011		07/13/07
U-232 tracer by AEA	U232	LA-508-471		10.0	pCi/L			1.00	0.092		07/13/07

MDL = Minimum Detection Limit

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria(inorg)

RQ = Result Qualifier

U - Analyzed for but not detected above limiting criteria.(org)

TP Err = Total Propagated Error

DF = Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-058
Sample # W07GR01489
Client ID: BINWH5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20071068
Department: Radiochemistry
Sampled: 06/25/07
Received: 06/25/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		2.30	pCi/L	+ -1.15	pCi/L	1.00	1.2		07/02/07
Gross beta	12587-47-2	LA-508-415		28.0	pCi/L	+ -3.64	pCi/L	1.00	2.4		07/02/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	0.0430	pCi/L	+ -0.0430	pCi/L	1.00	0.58		07/18/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-1.90	pCi/L	+ -19.0	pCi/L	1.00	8.8		08/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		89.6	Percent			1.00	0.0		08/16/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421		39.0	pCi/L	+ -8.19	pCi/L	1.00	2.6		07/09/07
Uranium Isotopes by AEA											
Uranium-233/234	U-233/234	LA-508-471		1.60	pCi/L	+ -0.448	pCi/L	1.00	0.011		07/13/07
Uranium-235	15117-96-1	LA-508-471		0.0650	pCi/L	+ -0.0384	pCi/L	1.00	0.012		07/13/07
Uranium-238	U-238	LA-508-471		0.910	pCi/L	+ -0.264	pCi/L	1.00	0.011		07/13/07
U-232 tracer by AEA	U232	LA-508-471		10.0	pCi/L			1.00	0.082		07/13/07

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

D - Analyte was identified at a secondary dilution factor(Inorg)

U - Analyzed for but not detected above limiting criteria.(org)

U - Analyzed for but not detected above limiting criteria(Inorg)

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071068
 Matrix: WATER
 Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01488											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	U1.3		RPD			n/a	20.000		07/02/07
DUP	Gross beta	12587-47-2	2.9E+01		RPD			21.538	20.000 *		07/02/07
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-4.4E-02	n/a	pCi/L	-10.000	10.000				07/02/07
BLANK	Gross beta	12587-47-2	U-2.6	n/a	pCi/L	-10.000	10.000				07/02/07
LCS	Gross alpha	12587-46-1	40.9	105.576	% Recov	80.000	120.000				07/02/07
LCS	Gross beta	12587-47-2	125.0	111.448	% Recov	80.000	120.000				07/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071068
 Matrix: WATER
 Test: Neptunium by AEA

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01488											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	U8.4e-3		RPD			n/a	20.000		07/18/07
MS	Neptunium-237	13994-20-2	101.969	101.969	% Recov	75.000	125.000				07/18/07
MSD	Neptunium-237	13994-20-2	106.369	106.369	% Recov	75.000	125.000				07/18/07
SPK-RPD	Neptunium-237	13994-20-2	106.369		% RPD			4.224	20.000		07/18/07
Lab ID: W07GR01489											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	92.4	92.400	% Recov	75.000	125.000				07/18/07
BATCH QC											
BLANK	Neptunium-237	13994-20-2	1.2e-2	1.200	% Recov	-10.000	1000.000				07/18/07
LCS	Neptunium-237	13994-20-2	12.93	101.452	% Recov	80.000	120.000				07/18/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071068
 Matrix: WATER
 Test: Strontium 89/90

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W07GR01488
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Sr-85 Tracer by Beta Counting	SR85	80.2	80.200	% Recov	30.000	105.000				08/18/07
DUP	Strontium-89/90	SR-RAD	U-2.5E+01		RPD			n/a	20.000		08/18/07
SURR	Sr-85 Tracer by Beta Counting	SR85	87.3	87.300	% Recov	30.000	105.000				08/18/07

Lab ID: W07GR01489
BATCH QC ASSOCIATED WITH SAMPLE

SURR	Sr-85 Tracer by Beta Counting	SR85	89.6	89.600	% Recov	30.000	105.000				08/18/07
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BATCH QC

BLANK	Sr-85 Tracer by Beta Counting	SR85	94.3	94.300	% Recov	30.000	105.000				08/18/07
BLANK	Strontium-89/90	10098-97-2	3.2E+01	32.000	pCi/L	-10.000	100.000				08/18/07
LCS	Sr-85 Tracer by Beta Counting	SR85	93.4	93.400	% Recov	30.000	105.000				08/18/07
LCS	Strontium-89/90	10098-97-2	1540.0	92.387	% Recov	80.000	120.000				08/18/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071068
 Matrix: WATER
 Test: TC99 by Liquid Scin.

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01488											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Technetium-99	14133-78-7	42.1		RPD			7.134	20.000		07/09/07
MS	Technetium-99	14133-78-7	98.4	101.131	% Recov	75.000	125.000				07/09/07
BATCH QC											
BLANK	Technetium-99	14133-78-7	U-3.5	n/a	pCi/L	-10.000	10.000				07/09/07
LCS	Technetium-99	14133-78-7	122.2	100.493	% Recov	80.000	120.000				07/09/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071068
 Matrix: WATER
 Test: Uranium Isotopics by AEA

Sample Date: 06/25/07
 Receive Date: 06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01488											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	10.42	104.290	% Recov	30.000	105.000				07/13/07
DUP	Uranium-233/234	U-233/234	1.6		RPD			6.452	20.000		07/13/07
DUP	Uranium-235	15117-96-1	7.6e-2		RPD			23.529	20.000 *		07/13/07
DUP	Uranium-238	U-238	0.87		RPD			23.350	20.000 *		07/13/07
SURR	U-232 tracer by AEA	U232	10.42	99.440	% Recov	30.000	105.000				07/13/07
Lab ID: W07GR01489											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	10.42	104.680	% Recov	30.000	105.000				07/13/07
BATCH QC											
BLANK	U-232 tracer by AEA	U232	10.42	92.260	% Recov	30.000	105.000				07/13/07
BLANK	Uranium-233/234	13986-29-5	3.3e-2	0.033	pCi/L	-10.000	1000.000				07/13/07
BLANK	Uranium-235	15117-96-1	U2.3e-2	n/a	pCi/L	-10.000	1000.000				07/13/07
BLANK	Uranium-238	24678-82-8	1.3e-2	0.013	pCi/L	-10.000	1000.000				07/13/07
LCS	U-232 tracer by AEA	U232	11.57	84.800	% Recov	30.000	105.000				07/13/07
LCS	Uranium-233/234	13986-29-5	N/A	n/a	% Recov	75.000	125.000				07/13/07
LCS	Uranium-238	24678-82-8	20.49	108.098	% Recov	80.000	120.000				07/13/07

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-058

Group #: WSCF20071068
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>W07GR01488-1489/Gross beta duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. lnh</p> <p>SVOA: Slight amount of bis(2-ethylhexyl)phthalate found in the blank. None detected in samples. All other QC meets or exceeds recovery limits. The same QC applies to the dimethoate results as the rest of the SVOA data. cgc</p> <p>U-235 duplicate is flagged for poor RPD however, the sample activity is low level. RPD does not apply to low level samples. lnh</p> <p>U-238 duplicate is flagged for poor RPD. Since it is only slightly out of limits and all the other QC checks came out fine, this batch has been approved. lnh</p> <p>below the MDL. No flag</p> <p>ICP-MS: Chromium Prep blank above the MDL, but the sample results are below the MDL. No flags</p>

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20071068

Report Date: 28-aug-2007

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ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 4 pages
Including cover page

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

File

ACKNOWLEDGMENT OF SAMPLES RECEIVED

08/09/07
td

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122585/ES10
Group#: 20071068
Project#: F07-058
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 06/25/07. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W07GR01488	B1NWH4	TRENT @2008 @AB-32 @AEA-32 @AEA-33 @IC-30 @SR89_90 @SVOCGPP @TC99-30 DMETOAT	Water	06/25/07
W07GR01489	B1NWH5	TRENT @2008 @AB-32 @AEA-32 @AEA-33 @IC-30 @SR89_90 @SVOCGPP @TC99-30 DMETOAT	Water	06/25/07

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@AB-32	Gross Alpha/Gross Beta (AB32)
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vols
@TC99-30	TC99 by Liquid Scin.
DMETOAT	Dimethoate

COLLECTOR: *KB Hulse* 20071068
 COMPANY CONTACT: TRENT, SJ TELEPHONE NO.: 373-5869 PROJECT COORDINATOR: TRENT, SJ PRICE CODE: 7N DATA TURNAROUND: 45 Days / 45 Days
 SAMPLING LOCATION: 299-E23-2 PROJECT DESIGNATION: 216-A-2 and 216-A-21 Characterization Sampling and Analysis - Groundwat SAF NO.: F07-058 AIR QUALITY:
 ICE CHEST NO.: GRP-03-026 FIELD LOGBOOK NO.: HNF-N-575-101-2 COA: 122585ES10 METHOD OF SHIPMENT: GOVERNMENT VEHICLE
 SHIPPED TO: Waste Sampling & Characterization OFFSITE PROPERTY NO.: N/A BILL OF LADING/AIR BILL NO.: N/A

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool 4C	HNO3 to pH <2	Cool 4C	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HCl to pH <2
		TYPE OF CONTAINER	aG	G/P	G/P	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	4	1	1	1	1	1	1	1	2	
VOLUME	1000ml	125mL	120mL	500mL	1000mL	1000mL	1000mL	1000mL	1000mL	
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Gross Alpha; Gross Beta;	Fetopic Uranium;	Neptunium-237;	Strontium-89,90 - Total Sr;	Technetium-99;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME							
B1NWH4 207GCR488	WATER	6/25/07	0946	X	X	X	X	X	X	X

CHAIN OF POSSESSION SIGN/ PRINT NAMES SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM: <i>KB Hulse</i>	DATE/TIME: 6/25/07 1105	RECEIVED BY/STORED IN: <i>TARAZION</i>	DATE/TIME: 6/25/07 1105
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:

(1) Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {Dimethoate}
 (2) ICP/MS - 200.8 (TAL) {Antimony, Cadmium, Chromium, Manganese, Nickel, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Thallium, Uranium}
 (3) IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite}

ICED Initial Date

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

COLLECTOR		COMPANY CONTACT				TELEPHONE NO.		PROJECT COORDINATOR		PRICE CODE		DATA TURNAROUND	
KB Hulse		TRENT, SJ				373-5869		TRENT, SJ		7N		45 Days / 45 Days	
SAMPLING LOCATION		PROJECT DESIGNATION				SAF NO.		AIR QUALITY					
299-E23-2 Duplicate		216-A-2 and 216-A-21 Characterization Sampling and Analysis - Groundwat				F07-058		<input type="checkbox"/>					
ICE CHEST NO.		FIELD LOGBOOK NO.		COA		METHOD OF SHIPMENT							
GRP-03-026		HNF-N-575-107-2		122585E10		GOVERNMENT VEHICLE							
SHIPPED TO		OFFSITE PROPERTY NO.				BILL OF LADING/AIR BILL NO.							
Waste Sampling & Characterization		N/A				N/A							
MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	COOL 4C	HNO3 to pH <2	COOL 4C	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HCl to pH <2		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)												
		TYPE OF CONTAINER	gG	G/P 6-21-07	P	G/P 6-21-07	G/P 6-21-07	G/P 6-21-07	G/P 6-21-07	G/P 6-21-07	G/P 6-21-07		
		NO. OF CONTAINER(S)	4	1	1	1	1	1	1	1	2		
		VOLUME	1000mL	125mL	120mL	500mL	1000mL	1000mL	1000mL	1000mL	1000mL		
	SPECIAL HANDLING AND/OR STORAGE Radioactive tie to B1NWH3	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Gross Alpha; Gross Beta;	Isotopic Uranium;	Neptunium-237;	Strontium-89,90 - Total Sr;	Technetium-99;			
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1NWH5 207 6/25/07	WATER	6/25/07	0946	X	X	X	X	X	X	X	X		
CHAIN OF POSSESSION		SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS							
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
KB Hulse	6/25/07 1105	TA FRAZIER	6/25/07 1105	(1) Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {Dimethoate} (2) ICP/MS - 200.8 (TAL) {Antimony, Cadmium, Chromium, Manganese, Nickel, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Thallium, Uranium} (3) IC Anions - 300.0 {Fluoride, Nitrogen In Nitrate, Nitrogen In Nitrite}									
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME										
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							

ICED
Initial
Date

M4W41-SLF-07-573

ATTACHMENT 5

ISSUE RESOLUTION FORM

Consisting of 2 pages
Including cover page

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ISSUE RESOLUTION FORM

TRACKING NUMBER: 07-076

Date : **08-09-2007** SAF No. **F07-058**

SDG: **WSCF20071068** LOGIN No.: TEST: **@SR89_90**

Sample No.(s) **B1NWH4** **W07GR01488**
 B1NWH5 **W07GR01489**

Submitted By: PD Mix Submitted To: H Hampt
Phone No. 372-1488 Phone No. 376-4319
Fax No. 372-0456 Fax No.

ISSUE

Due to a WSCF Laboratory error, samples were not analyzed for Strontium-89,90 (Total Sr) as required by the chain of custody. The samples were taken and delivered to the WSCF Laboratory on June 25, however the Strontium-89,90 analyses were never started.

The WSCF Laboratory is very sorry about this error and apologizes for any inconvenience(s) this may have caused.

PROPOSED RESOLUTION

Proceed with Strontium-89,90 (Total Sr) analyses and document Laboratory error in case narrative.

GRP COMMENTS

Please proceed with analysis, document in narrative, and report all of the data together. (We don't want a partial package.)

Heidi Hampt 8/14/07
Signature and Date