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FLUOR

Memorandum

M4W41-SLF-07-233

To: S. J. Trent E6-35 Date: April 26, 2007

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

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
H. K. Meznarich	S3-30	D. D. Wright	S3-30
P. D. Mix	S3-30	File/LB	

Subject: FINAL RESULTS FOR UR-1 OPERABLE UNIT AUGER & SURFICIAL SOIL SAMPLES – SAMPLE DELIVERY GROUP WSCF20070491 – SAF NUMBER F07-029

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 WSCF20070491:

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

SLF/grf

Attachments 4

APR 2007
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JUL 30 2007
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M4W41-SLF-07-233

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20070491
Data Deliverable Date: 23-apr-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-029	B1MRW9	W07GR00504	SOIL
	B1MRX0	W07GR00499	SOIL
	B1MRX1	W07GR00509	SOIL
	B1MTK4	W07GR00505	SOIL
	B1MTK5	W07GR00506	SOIL
	B1MTK6	W07GR00507	SOIL
	B1MTK7	W07GR00508	SOIL
	B1MTL4	W07GR00500	SOIL
	B1MTL5	W07GR00501	SOIL
	B1MTL6	W07GR00502	SOIL
	B1MTL7	W07GR00503	SOIL

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ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Sample Delivery Group	**WSCF20070491**
Sample Matrix	**Soil**
Sample Visual	**N/A**
SAF Number	**F07-029**
Data Deliverable	**Summary Report**

Introduction

Eleven (11) UR-1 Operable Unit auger and Surficial soil samples were received at the WSCF Laboratory on March 22, 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. Copies of the sample receipt and chain of custody documentation are included as Attachment 4.

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 – The hold times requirements 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 Notes:

- Preparation Date: 19-apr-2007.
- Analysis Date: 19-apr-2007.
- Sample results were D flagged (50X dilution).

All QC controls are within the established limits.

ICP-AES Metals – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See page 19 for QC details. Analytical Notes:

- Preparation Date: 17-apr-2007.
- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1MRV7 (SDG# 20070613, SAF# F07-029).

- B1MRX0 – Laboratory Control Sample recovery slightly exceeded established laboratory limits. Sample result for Boron was also E flagged

All other QC controls are within the established limits.

ICP-MS Metals – The hold time for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with this delivery group per the GRP Letter of Instruction. See pages 20 through 23 for QC details. Analytical Notes:

- Preparation Date: 29-mar-2007.

- B1MRX0 – Although the Matrix Spike and Matrix Spike Duplicate were within established limits, the Spike Relative Percent Difference (RPD) slightly exceeded established limits and the sample result for Manganese was X flagged.

All other QC controls are within the established limits.

Percent Solids – analyzed for organic moisture correction.

Organic Comments

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

PCBs – The hold time for this analysis was 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 26 through 27 for QC details. Analytical Note:

- Preparation Date: 28-mar-2007.

All QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Blank, Duplicate and a Laboratory Control Sample were analyzed with this delivery group. See pages 40 through 43 for QC details.

All QC controls are within established laboratory limits.

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.

Pauline D. Mix
WSCF Client Services

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

M4W41-SLF-07-233

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 47 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: Markus Stauffer Markus Stauffer 4/26/07

Client Services: [illegible] 4/26/2007

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#: WSCF20070491
Report Date: 26-apr-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

w13qlog v4.2 26-apr-2007 13:34:09

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20070491

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W07GR00499	Percent Solids
31355	1	31732	35832	BLANK		ICP-200.8 MS All possible meta
31355	2	31732	35832	LCS		ICP-200.8 MS All possible meta
31355	4	31732	35832	MS	W07GR00499	ICP-200.8 MS All possible meta
31355	5	31732	35832	MSD	W07GR00499	ICP-200.8 MS All possible meta
31355	3	31732	35832	SAMPLE	W07GR00499	ICP-200.8 MS All possible meta
31355	5	31732	35832	SPK-RPD	W07GR00499	ICP-200.8 MS All possible meta
31621	2	31999	36068	BLANK		Anions by Ion Chromatography
31621	11	31999	36068	BLANK		Anions by Ion Chromatography
31621	3	31999	36068	LCS		Anions by Ion Chromatography
31621	5	31999	36068	DUP	W07GR00499	Anions by Ion Chromatography
31621	6	31999	36068	MS	W07GR00499	Anions by Ion Chromatography
31621	7	31999	36068	MSD	W07GR00499	Anions by Ion Chromatography
31621	4	31999	36068	SAMPLE	W07GR00499	Anions by Ion Chromatography
31621	7	31999	36068	SPK-RPD	W07GR00499	Anions by Ion Chromatography
31569	1	31948	36098	BLANK		ICP Metals Analysis, Grd H20 P
31569	2	31948	36098	LCS		ICP Metals Analysis, Grd H20 P
31569	17	31948	36098	SAMPLE	W07GR00499	ICP Metals Analysis, Grd H20 P
31569	4	31948	36098	MS	W07GR00715	ICP Metals Analysis, Grd H20 P
31569	5	31948	36098	MSD	W07GR00715	ICP Metals Analysis, Grd H20 P
31569	5	31948	36098	SPK-RPD	W07GR00715	ICP Metals Analysis, Grd H20 P

w13qlog v4.2 26-apr-2007 13:34:09

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20070491

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			35871	BLANK		PCBs complete list
			35871	LCS		PCBs complete list
			35871	MS	W07GR00499	PCBs complete list
			35871	MSD	W07GR00499	PCBs complete list
			35871	SAMPLE	W07GR00499	PCBs complete list
			35871	SPK-RPD	W07GR00499	PCBs complete list
			35871	SURR	W07GR00499	PCBs complete list

w13qlog v4.2 26-apr-2007 13:34:09

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20070491

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
31345	1	31722	35863	BLANK		Gamma Energy Analysis-grd H2O
31345	2	31722	35863	LCS		Gamma Energy Analysis-grd H2O
31345	3	31722	35863	DUP	W07GR00499	Gamma Energy Analysis-grd H2O
31345	4	31722	35863	SAMPLE	W07GR00499	Gamma Energy Analysis-grd H2O
31345	5	31722	35863	SAMPLE	W07GR00500	Gamma Energy Analysis-grd H2O
31345	6	31722	35863	SAMPLE	W07GR00501	Gamma Energy Analysis-grd H2O
31345	7	31722	35863	SAMPLE	W07GR00502	Gamma Energy Analysis-grd H2O
31345	8	31722	35863	SAMPLE	W07GR00503	Gamma Energy Analysis-grd H2O
31345	9	31722	35863	SAMPLE	W07GR00504	Gamma Energy Analysis-grd H2O
31345	10	31722	35863	SAMPLE	W07GR00505	Gamma Energy Analysis-grd H2O
31345	11	31722	35863	SAMPLE	W07GR00506	Gamma Energy Analysis-grd H2O
31345	12	31722	35863	SAMPLE	W07GR00507	Gamma Energy Analysis-grd H2O
31345	13	31722	35863	SAMPLE	W07GR00508	Gamma Energy Analysis-grd H2O
31345	14	31722	35863	SAMPLE	W07GR00509	Gamma Energy Analysis-grd H2O
31396	1	31773	36085	BLANK		Strontium 89/90
31396	2	31773	36085	LCS		Strontium 89/90
31396	3	31773	36085	DUP	W07GR00506	Strontium 89/90
31396	4	31773	36085	SAMPLE	W07GR00506	Strontium 89/90
31396	5	31773	36085	SURR	W07GR00506	Strontium 89/90
31396	6	31773	36085	SAMPLE	W07GR00507	Strontium 89/90
31396	7	31773	36085	SURR	W07GR00507	Strontium 89/90
31396	8	31773	36085	SAMPLE	W07GR00508	Strontium 89/90
31396	9	31773	36085	SURR	W07GR00508	Strontium 89/90
31396	10	31773	36085	SAMPLE	W07GR00509	Strontium 89/90
31396	11	31773	36085	SURR	W07GR00509	Strontium 89/90
31398	1	31775	36097	BLANK		Strontium 89/90
31398	2	31775	36097	LCS		Strontium 89/90
31398	3	31775	36097	DUP	W07GR00499	Strontium 89/90
31398	4	31775	36097	SAMPLE	W07GR00499	Strontium 89/90
31398	5	31775	36097	SURR	W07GR00499	Strontium 89/90
31398	6	31775	36097	SAMPLE	W07GR00500	Strontium 89/90
31398	7	31775	36097	SURR	W07GR00500	Strontium 89/90
31398	8	31775	36097	SAMPLE	W07GR00501	Strontium 89/90
31398	9	31775	36097	SURR	W07GR00501	Strontium 89/90
31398	10	31775	36097	SAMPLE	W07GR00502	Strontium 89/90
31398	11	31775	36097	SURR	W07GR00502	Strontium 89/90
31398	12	31775	36097	SAMPLE	W07GR00503	Strontium 89/90
31398	13	31775	36097	SURR	W07GR00503	Strontium 89/90
31398	14	31775	36097	SAMPLE	W07GR00504	Strontium 89/90
31398	15	31775	36097	SURR	W07GR00504	Strontium 89/90
31398	16	31775	36097	SAMPLE	W07GR00505	Strontium 89/90
31398	17	31775	36097	SURR	W07GR00505	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-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE	
	HEIS 6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmision 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
	HEIS 200.8_METALS_ICPMS	Inductively Coupled Plasma - Mass Spectrometry
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C	
	EPA-600/4-79-020 160.1	Resisual, Filterable
	EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	HEIS 160.1_TDS	Residual, Filterable
	Standard Methods 2540B	Total Solids Dried at 103-105 C
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.

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-523-427	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 8082A	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
	HEIS 8082_PCB_GC	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://www2.rl.gov/phmc/as-dol.

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	Strontium 89/90

LA-508-481 LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE

HEIS GAMMA_GS	Gamma Emmision Spectrometry

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.

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00499
Client ID: B1MRX0 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Inorganic
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**04/19/07**
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 2.00	mg/kg			50.00	2.0		04/19/07
Chloride	16887-00-6	LA-533-410	DU	< 1.70	mg/kg			50.00	1.7		04/19/07
Sulfate	14808-79-8	LA-533-410	DU	< 6.50	mg/kg			50.00	6.5		04/19/07
ICP Metals Analysis, Grd H20 P Prep											**04/17/07**
ICP Metals Analysis, Grd H20 P											
Lithium	7439-93-2	LA-505-411		7.09	mg/kg			99.42	0.40		04/18/07
Boron	7440-42-8	LA-505-411	E	11.2	mg/kg			99.42	0.80		04/18/07
ICP-200.8 MS All possible meta Prep											**03/29/07**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412	X	348	mg/kg			1.00	0.100		03/29/07
Nickel	7440-02-0	LA-505-412		9.08	mg/kg			1.00	0.201		03/29/07
Silver	7440-22-4	LA-505-412	U	< 0.100	mg/kg			1.00	0.100		03/29/07
Antimony	7440-36-0	LA-505-412	U	< 0.302	mg/kg			1.00	0.301		03/29/07
Barium	7440-39-3	LA-505-412		82.8	mg/kg			1.00	0.201		03/29/07
Beryllium	7440-41-7	LA-505-412		0.276	mg/kg			1.00	0.0502		03/29/07
Cadmium	7440-43-9	LA-505-412		0.120	mg/kg			1.00	0.100		03/29/07
Chromium	7440-47-3	LA-505-412		5.95	mg/kg			1.00	0.502		03/29/07
Cobalt	7440-48-4	LA-505-412		8.83	mg/kg			1.00	0.0502		03/29/07
Copper	7440-50-8	LA-505-412		17.5	mg/kg			1.00	0.100		03/29/07
Vanadium	7440-62-2	LA-505-412		47.6	mg/kg			1.00	0.201		03/29/07
Zinc	7440-66-6	LA-505-412		44.5	mg/kg			1.00	0.804		03/29/07
Lead	7439-92-1	LA-505-412		4.30	mg/kg			1.00	0.100		03/29/07
Mercury	7439-97-6	LA-505-412	U	< 0.0502	mg/kg			1.00	0.0502		03/29/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

D - Analyte was identified at a secondary dilution factor
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

E - Analyte is an estimate, has potentially larger errors(inorg)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00499
Client ID: B1MRX0 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Inorganic
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Molybdenum	7439-98-7	LA-505-412		0.362	mg/kg			1.00	0.0502		03/29/07
Uranium	7440-61-1	LA-505-412		0.442	mg/kg			1.00	0.0502		03/29/07
Arsenic	7440-38-2	LA-505-412		3.20	mg/kg			1.00	0.402		03/29/07
Selenium	7782-49-2	LA-505-412		0.812	mg/kg			1.00	0.301		03/29/07
Thallium	7440-28-0	LA-505-412	U	< 0.100	mg/kg			1.00	0.100		03/29/07
Tin	7440-31-5	LA-505-412		0.670	mg/kg			1.00	0.0502		03/29/07
Total solids											
Total solids	TS	LA-519-412		97.2	Percent			1.00	0.0		04/23/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

E - Analyte is an estimate, has potentially larger errors(inorg)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date: 03/15/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00499											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	<1.666		RPD			n/a	20.000	U	04/19/07
DUP	Fluoride	16984-48-8	<1.96		RPD			n/a	20.000	U	04/19/07
DUP	Sulfate	14808-79-8	<6.37		RPD			n/a	20.000	U	04/19/07
MS	Chloride	16887-00-6	0.883646	92.820	% Recov	75.000	125.000				04/19/07
MS	Fluoride	16984-48-8	0.428364	89.057	% Recov	75.000	125.000				04/19/07
MS	Sulfate	14808-79-8	1.78722	94.064	% Recov	75.000	125.000				04/19/07
MSD	Chloride	16887-00-6	0.895553	94.071	% Recov	75.000	125.000				04/19/07
MSD	Fluoride	16984-48-8	0.431778	89.767	% Recov	75.000	125.000				04/19/07
MSD	Sulfate	14808-79-8	1.793941	94.418	% Recov	75.000	125.000				04/19/07
SPK-RPD	Chloride	16887-00-6	94.071		RPD			1.339	20.000		04/19/07
SPK-RPD	Fluoride	16984-48-8	89.767		RPD			0.794	20.000		04/19/07
SPK-RPD	Sulfate	14808-79-8	94.418		RPD			0.376	20.000		04/19/07
BATCH QC											
BLANK	Chloride	16887-00-6	<3.4e-2	n/a	mg/L	0.000	0.030			U	04/19/07
BLANK	Chloride	16887-00-6	<3.4e-2	n/a	mg/L	0.000	0.030			U	04/19/07
BLANK	Fluoride	16984-48-8	<4e-2	n/a	mg/L	0.000	0.030			U	04/19/07
BLANK	Fluoride	16984-48-8	<4e-2	n/a	mg/L	0.000	0.030			U	04/19/07
BLANK	Sulfate	14808-79-8	<0.13	n/a	mg/L	0.000	0.200			U	04/19/07
BLANK	Sulfate	14808-79-8	<0.13	n/a	mg/L	0.000	0.200			U	04/19/07
LCS	Chloride	16887-00-6	196.3525	98.176	% Recov	80.000	120.000				04/19/07
LCS	Fluoride	16984-48-8	104.4369	103.403	% Recov	80.000	120.000				04/19/07
LCS	Sulfate	14808-79-8	387.7953	96.949	% Recov	80.000	120.000				04/19/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: ICP Metals Analysis, Grd H20 P

Sample Date: 03/26/07
Receive Date:04/11/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00715											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Boron	7440-42-8	92.347	93.658	% Recov	75.000	125.000				04/18/07
MS	Lithium	7439-93-2	51.272	104.000	% Recov	70.000	130.000				04/18/07
MSD	Boron	7440-42-8	92.147	93.741	% Recov	75.000	125.000				04/18/07
MSD	Lithium	7439-93-2	50.332	102.301	% Recov	75.000	125.000				04/18/07
SPK-RPD	Boron	7440-42-8	93.741		RPD			0.089	20.000		04/18/07
SPK-RPD	Lithium	7439-93-2	102.301		RPD			1.647	20.000		04/18/07
BATCH QC											
BLANK	Boron	7440-42-8	<8e-3	n/a	ug/mL					U	04/18/07
BLANK	Lithium	7439-93-2	<4e-3	n/a	ug/mL					U	04/18/07
LCS	Boron	7440-42-8	106.8	109.651	% Recov	45.000	156.000				04/18/07
LCS	Lithium	7439-93-2	7.537	128.460	% Recov	80.000	120.000				04/18/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/15/07
Receive Date:03/22/07

Lab ID: W07GR00499
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Silver	7440-22-4	191.8	95.900	% Recov	70.000	130.000				03/29/07
MS	Arsenic	7440-38-2	195.901	97.951	% Recov	70.000	130.000				03/29/07
MS	Barium	7440-39-3	207.78	103.890	% Recov	70.000	130.000				03/29/07
MS	Beryllium	7440-41-7	196.524	98.262	% Recov	70.000	130.000				03/29/07
MS	Cadmium	7440-43-9	194.5796	97.290	% Recov	70.000	130.000				03/29/07
MS	Cobalt	7440-48-4	176.37	88.185	% Recov	70.000	130.000				03/29/07
MS	Chromium	7440-47-3	177.748	88.874	% Recov	70.000	130.000				03/29/07
MS	Copper	7440-50-8	174.91	87.455	% Recov	70.000	130.000				03/29/07
MS	Mercury	7439-97-6	2.16	108.000	% Recov	70.000	130.000				03/29/07
MS	Manganese	7439-96-5	243.5	121.750	% Recov	70.000	130.000				03/29/07
MS	Molybdenum	7439-98-7	204.0478	102.024	% Recov	70.000	130.000				03/29/07
MS	Nickel	7440-02-0	180.523	90.261	% Recov	70.000	130.000				03/29/07
MS	Lead	7439-92-1	200.801	100.401	% Recov	70.000	130.000				03/29/07
MS	Antimony	7440-36-0	218.5	109.250	% Recov	70.000	130.000				03/29/07
MS	Selenium	7782-49-2	191.8877	95.944	% Recov	70.000	130.000				03/29/07
MS	Tin	7440-31-5	196.93	98.465	% Recov	70.000	130.000				03/29/07
MS	Thallium	7440-28-0	182.7	91.350	% Recov	70.000	130.000				03/29/07
MS	Uranium	7440-61-1	196.9579	98.479	% Recov	70.000	130.000				03/29/07
MS	Vanadium	7440-62-2	171.12	85.560	% Recov	70.000	130.000				03/29/07
MS	Zinc	7440-66-6	174.19	87.095	% Recov	70.000	130.000				03/29/07
MSD	Silver	7440-22-4	192.3	96.150	% Recov	70.000	130.000				03/29/07
MSD	Arsenic	7440-38-2	195.401	97.701	% Recov	70.000	130.000				03/29/07
MSD	Barium	7440-39-3	211.88	105.940	% Recov	70.000	130.000				03/29/07
MSD	Beryllium	7440-41-7	195.924	97.962	% Recov	70.000	130.000				03/29/07
MSD	Cadmium	7440-43-9	193.1796	96.590	% Recov	70.000	130.000				03/29/07
MSD	Cobalt	7440-48-4	176.07	88.035	% Recov	70.000	130.000				03/29/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/15/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Chromium	7440-47-3	177.348	88.674	% Recov	70.000	130.000				03/29/07
MSD	Copper	7440-50-8	177.31	88.655	% Recov	70.000	130.000				03/29/07
MSD	Mercury	7439-97-6	2.086	104.300	% Recov	70.000	130.000				03/29/07
MSD	Manganese	7439-96-5	142	71.000	% Recov	70.000	130.000				03/29/07
MSD	Molybdenum	7439-98-7	202.4478	101.224	% Recov	70.000	130.000				03/29/07
MSD	Nickel	7440-02-0	178.823	89.412	% Recov	70.000	130.000				03/29/07
MSD	Lead	7439-92-1	200.301	100.150	% Recov	70.000	130.000				03/29/07
MSD	Antimony	7440-36-0	221.4	110.700	% Recov	70.000	130.000				03/29/07
MSD	Selenium	7782-49-2	191.5877	95.794	% Recov	70.000	130.000				03/29/07
MSD	Tin	7440-31-5	195.53	97.765	% Recov	70.000	130.000				03/29/07
MSD	Thallium	7440-28-0	182.1	91.050	% Recov	70.000	130.000				03/29/07
MSD	Uranium	7440-61-1	196.6579	98.329	% Recov	70.000	130.000				03/29/07
MSD	Vanadium	7440-62-2	171.62	85.810	% Recov	70.000	130.000				03/29/07
MSD	Zinc	7440-66-6	172.89	86.445	% Recov	70.000	130.000				03/29/07
SPK-RPD	Silver	7440-22-4	96.150		RPD			0.260	20.000		03/29/07
SPK-RPD	Arsenic	7440-38-2	97.701		RPD			0.256	20.000		03/29/07
SPK-RPD	Barium	7440-39-3	105.940		RPD			1.954	20.000		03/29/07
SPK-RPD	Beryllium	7440-41-7	97.962		RPD			0.306	20.000		03/29/07
SPK-RPD	Cadmium	7440-43-9	96.590		RPD			0.722	20.000		03/29/07
SPK-RPD	Cobalt	7440-48-4	88.035		RPD			0.170	20.000		03/29/07
SPK-RPD	Chromium	7440-47-3	88.674		RPD			0.225	20.000		03/29/07
SPK-RPD	Copper	7440-50-8	88.655		RPD			1.363	20.000		03/29/07
SPK-RPD	Mercury	7439-97-6	104.300		RPD			3.486	20.000		03/29/07
SPK-RPD	Manganese	7439-96-5	71.000		RPD			52.659	20.000 *		03/29/07
SPK-RPD	Molybdenum	7439-98-7	101.224		RPD			0.787	20.000		03/29/07
SPK-RPD	Nickel	7440-02-0	89.412		RPD			0.945	20.000		03/29/07
SPK-RPD	Lead	7439-92-1	100.150		RPD			0.250	20.000		03/29/07
SPK-RPD	Antimony	7440-36-0	110.700		RPD			1.318	20.000		03/29/07
SPK-RPD	Selenium	7782-49-2	95.794		RPD			0.156	20.000		03/29/07
SPK-RPD	Tin	7440-31-5	97.765		RPD			0.713	20.000		03/29/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/15/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Thallium	7440-28-0	91.050		RPD			0.329	20.000		03/29/07
SPK-RPD	Uranium	7440-61-1	98.329		RPD			0.152	20.000		03/29/07
SPK-RPD	Vanadium	7440-62-2	85.810		RPD			0.292	20.000		03/29/07
SPK-RPD	Zinc	7440-66-6	88.445		RPD			0.749	20.000		03/29/07
BATCH QC											
BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	03/29/07
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	03/29/07
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	03/29/07
BLANK	Beryllium	7440-41-7	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	03/29/07
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	03/29/07
BLANK	Copper	7440-50-8	0.1756	0.176	ug/L						03/29/07
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	03/29/07
BLANK	Molybdenum	7439-98-7	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	03/29/07
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	03/29/07
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	03/29/07
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	03/29/07
BLANK	Tin	7440-31-5	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	03/29/07
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	03/29/07
BLANK	Vanadium	7440-62-2	<0.2	n/a	ug/L					U	03/29/07
BLANK	Zinc	7440-66-6	<0.8	n/a	ug/L					U	03/29/07
LCS	Silver	7440-22-4	156	120.000	% Recov	98.000	134.000				03/29/07
LCS	Arsenic	7440-38-2	178.4	110.807	% Recov	75.000	134.000				03/29/07
LCS	Barium	7440-39-3	269.3	108.865	% Recov	87.000	121.000				03/29/07
LCS	Beryllium	7440-41-7	104.2	110.381	% Recov	70.000	153.000				03/29/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070491
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Cadmium	7440-43-9	144.8	113.125	% Recov	95.000	124.000				03/29/07
LCS	Cobalt	7440-48-4	37.38	106.193	% Recov	88.000	119.000				03/29/07
LCS	Chromium	7440-47-3	72.48	104.288	% Recov	77.000	125.000				03/29/07
LCS	Copper	7440-50-8	162.4	109.730	% Recov	84.000	122.000				03/29/07
LCS	Mercury	7439-97-6	17.84	105.562	% Recov	71.000	132.000				03/29/07
LCS	Manganese	7439-96-5	427.7	104.828	% Recov	83.000	118.000				03/29/07
LCS	Molybdenum	7439-98-7	88.73	105.505	% Recov	71.000	130.000				03/29/07
LCS	Nickel	7440-02-0	163.3	111.088	% Recov	90.000	121.000				03/29/07
LCS	Lead	7439-92-1	154.5	108.803	% Recov	92.000	123.000				03/29/07
LCS	Antimony	7440-36-0	112.8	185.222	% Recov	114.000	260.000				03/29/07
LCS	Selenium	7782-49-2	74.85	116.589	% Recov	52.000	157.000				03/29/07
LCS	Tin	7440-31-5	63.01	103.295	% Recov	86.000	123.000				03/29/07
LCS	Thallium	7440-28-0	85.14	101.357	% Recov	92.000	123.000				03/29/07
LCS	Uranium	7440-61-1	410.1	102.525	% Recov	81.000	125.000				03/29/07
LCS	Vanadium	7440-62-2	98.38	101.110	% Recov	81.000	122.000				03/29/07
LCS	Zinc	7440-66-6	180.6	109.455	% Recov	85.000	130.000				03/29/07

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-029

Group #: WSCF20070491
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Manganese spike RPD exceeds 20%. Recoveries 71 and 122%, both acceptable, but indicating inhomogeneity in Mn X-flag Organics: All results are moisture corrected and reported on a dry weight basis. cgc ICP-AES: High lithium LCS recovery but all other QC is acceptable; no flags issued. Iron interference yielding positive boron results; "E" flags issued.

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: F07-029
Sample # W07GR00499
Client ID: B1MRX0 TRENT WSCF

Matrix: SOIL

Gronp #: WSCF20070491
Department: Organic
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/28/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 20.0	ug/kg			1.00	20		04/04/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		04/04/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

E - Analyte is an estimate, has potentially larger errors(inorg)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20070491
Matrix: SOLID
Test: PCBs complete list

Sample Date: 03/15/07
Receive Date:03/22/07

Lab ID: W07GR00499

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Aroclor-1254	11097-69-1	197.24	96.800	% Recov	75.000	125.000				04/04/07
MS	Decachlorobiphenyl	2051-24-3	178.99	87.800	% Recov	50.000	150.000				04/04/07
MS	Tetrachloro-m-xylene	877-09-8	190.38	93.400	% Recov	50.000	150.000				04/04/07
MSD	Aroclor-1254	11097-69-1	206.18	101.000	% Recov	75.000	125.000				04/04/07
MSD	Decachlorobiphenyl	2051-24-3	189.86	93.300	% Recov	50.000	150.000				04/04/07
MSD	Tetrachloro-m-xylene	877-09-8	195.10	95.900	% Recov	50.000	150.000				04/04/07
SPK-RPD	Aroclor-1254	11097-69-1	101.000		RPD			4.247	25.000		04/04/07
SPK-RPD	Decachlorobiphenyl	2051-24-3	93.300		RPD			6.074	20.000		04/04/07
SPK-RPD	Tetrachloro-m-xylene	877-09-8	95.900		RPD			2.641	20.000		04/04/07
SURR	Decachlorobiphenyl	2051-24-3	175.07	85.600	% Recov	50.000	150.000				04/04/07
SURR	Tetrachloro-m-xylene	877-09-8	181.90	88.900	% Recov	50.000	150.000				04/04/07

BATCH QC

BLANK	Aroclor-1016	12674-11-2	< 10	n/a	UGKG					U	04/04/07
BLANK	Aroclor-1221	11104-28-2	< 20	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1232	11141-16-5	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1242	53469-21-9	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1248	12672-29-6	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1254	11097-69-1	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1260	11096-82-5	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1262	37324-23-5	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Aroclor-1268	11100-14-4	< 10	n/a	ug/Kg					U	04/04/07
BLANK	Decachlorobiphenyl	2051-24-3	187.01	93.500	% Recov	50.000	150.000				04/04/07
BLANK	Tetrachloro-m-xylene	877-09-8	185.42	92.700	% Recov	50.000	150.000				04/04/07
LCS	Aroclor-1254	11097-69-1	207.11	104.000	% Recov	70.000	130.000				04/04/07
LCS	Decachlorobiphenyl	2051-24-3	192.15	96.100	% Recov	50.000	150.000				04/04/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20070491
Matrix: SOLID
Test: PCBs complete list

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Tetrachloro-m-xylene	877-09-8	203.30	102.000	% Recov	50.000	150.000				04/04/07

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-029

Group #: WSCF20070491
Department: Organic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Manganase spike RPD exceeds 20%. Recoveries 71 and 122%, both acceptable, but indicating inhomogeneity in Mn X-flag Organics: All results are moisture corrected and reported on a dry weight basis. ogc ICP-AES: High lithium LCS recovery but all other QC is acceptable; no flags issued. Iron interference yielding positive boron results; "E" flags issued.

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: F07-029
Sample # W07GR00499
Client ID: B1MRX0 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		1.31	pCi/g	+-0.209	pCi/g	1.00	8.9e-03		03/29/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.840	pCi/g	+-0.596	pCi/g	1.00	0.37		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.1	Percent			1.00	0.0		04/03/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

D - Analyte was identified at a secondary dilution factor
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

E - Analyte is an estimate, has potentially larger errors(inorg)
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X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00500
Client ID: B1MTL4 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/14/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.236	pCi/g	+-0.0386	pCi/g	1.00	8.9e-03		03/29/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.730	pCi/g	+-0.548	pCi/g	1.00	0.35		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		102	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

D - Analyte was identified at a secondary dilution factor
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00501
Client ID: B1MTL5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/14/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.0299	pCi/g	+-0.0103	pCi/g	1.00	0.010		03/29/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.320	pCi/g	+-0.544	pCi/g	1.00	0.35		04/03/07
Sr-85 Tracer by Bete Counting	SR85	LA-508-415		101	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00502
Client ID: B1MTL6 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.0653	pCi/g	+-0.0139	pCi/g	1.00	8.8e-03		03/29/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.350	pCi/g	+-0.525	pCi/g	1.00	0.35		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		104	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00503
Client ID: B1MTL7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.0110	pCi/g	+-7.31e-03	pCi/g	1.00	0.011		03/29/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	0.0800	pCi/g	+-0.532	pCi/g	1.00	0.36		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		101	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00504
Client ID: B1MRW9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/15/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		4.79	pCi/g	+-0.761	pCi/g	1.00	0.012		03/30/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		32.0	pCi/g	+-4.16	pCi/g	1.00	0.34		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		101	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00505
Client ID: B1MTK4 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/19/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.812	pCi/g	+-0.131	pCi/g	1.00	0.012		03/30/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		3.30	pCi/g	+-0.693	pCi/g	1.00	0.36		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		100	Percent			1.00	0.0		04/03/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00506
Client ID: B1MTK5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/19/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		3.13	pCi/g	+-0.500	pCi/g	1.00	0.019		04/02/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		19.0	pCi/g	+-2.47	pCi/g	1.00	0.35		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.4	Percent			1.00	0.0		04/03/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

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

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00507
Client ID: B1MTK6 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/19/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.104	pCi/g	+-0.0202	pCi/g	1.00	0.010		03/30/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.890	pCi/g	+-0.570	pCi/g	1.00	0.34		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		100	Percent			1.00	0.0		04/03/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

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

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00508
Client ID: B1MTK7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/20/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.0115	pCi/g	+-8.40e-03	pCi/g	1.00	8.7e-03		03/30/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	0.300	pCi/g	+-0.510	pCi/g	1.00	0.34		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		100	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-029
Sample # W07GR00509
Client ID: B1MRX1 TRENT WSCF

Matrix: SOIL

Group #: WSCF20070491
Department: Radiochemistry
Sampled: 03/19/07
Received: 03/22/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gamma Energy Analysis-grd H2O											
Cesium-137	10045-97-3	LA-508-481		0.879	pCi/g	+-0.141	pCi/g	1.00	0.010		04/02/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.70	pCi/g	+-0.578	pCi/g	1.00	0.33		04/03/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		104	Percent			1.00	0.0		04/03/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070491
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 03/15/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00499											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cesium-137	10045-97-3	1.315		RPD			0.534	20.000		03/29/07
BATCH QC											
BLANK	Cesium-137	10045-97-3	U7.575e-4	n/a	pCi/g	-10.000	1000.000				03/28/07
LCS	Cesium-137	10045-97-3	4156	116.089	% Recov	80.000	120.000				04/03/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070491
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 03/19/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR00506											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	103.6	103.600	% Recov	30.000	105.000				04/03/07
DUP	Strontium-89/90	SR-RAD	2.0E+01		RPD			5.128	20.000		04/03/07
SURR	Sr-85 Tracer by Beta Counting	SR85	99.4	99.400	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00507											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.5	100.500	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00508											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.0	100.000	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00509											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	104.3	104.300	% Recov	30.000	105.000				04/03/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	90.5	90.500	% Recov	30.000	105.000				04/03/07
BLANK	Strontium-89/90	10098-97-2	U2.8E-01	n/a	pCi/g	-10.000	300.000				04/03/07
LCS	Sr-85 Tracer by Beta Counting	SR85	101.1	101.100	% Recov	30.000	105.000				04/03/07
LCS	Strontium-89/90	10098-97-2	83.1	96.740	% Recov	80.000	120.000				04/03/07
Lab ID: W07GR00499											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	100.9	100.900	% Recov	30.000	105.000				04/03/07
DUP	Strontium-89/90	SR-RAD	U2.8		RPD			n/a	20.000		04/03/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070491
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 03/15/07
Receive Date:03/22/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Sr-85 Tracer by Beta Counting	SR85	99.1	99.100	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00500											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	101.9	101.900	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00501											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Bete Counting	SR85	101.1	101.100	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00502											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	103.9	103.900	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00503											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.8	100.800	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00504											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.9	100.900	% Recov	30.000	105.000				04/03/07
Lab ID: W07GR00505											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.3	100.300	% Recov	30.000	105.000				04/03/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	103.8	103.800	% Recov	30.000	105.000				04/03/07
BLANK	Strontium 89/90	10098-97-2	U-9.6E-01	n/a	pCi/g	-10.000	300.000				04/03/07
LCS	Sr-85 Tracer by Beta Counting	SR85	89.	89.000	% Recov	30.000	105.000				04/03/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070491
Matrix: SOLID
Test: Strontium 89/90

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Strontium-89/90	10098-97-2	84.9	98.836	% Recov	80.000	120.000				04/03/07

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.49	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.38	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.36	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.024	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				34	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.53	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.40	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				15	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.36	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				18	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.49	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.10	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				27	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.18	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.061	pCi/g
W07GR00499	B1MRX0	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				30	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.58	pCi/g

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				18	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.35	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				24	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.41	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				18	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.025	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				35	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.58	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.45	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.41	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.58	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				16	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.12	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				25	%
W07GR00500	B1MTL4	.TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.66	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				27	%
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.18	pCi/g
W07GR00500	B1MTL4	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.63	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.43	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				27	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.50	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				17	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.032	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				35	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.64	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.56	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.50	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				17	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.63	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.15	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				28	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.18	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.060	pCi/g
W07GR00501	B1MTL5	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				32	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.58	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.41	pCi/g

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				24	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.44	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.026	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				35	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.60	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				13	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.49	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.44	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.58	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.14	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				24	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.18	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.066	pCi/g
W07GR00502	B1MTL6	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				25	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.62	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.40	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.46	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				17	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.025	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				37	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.61	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.52	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.46	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				17	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.62	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.12	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				29	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.66	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				33	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.18	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.057	pCi/g
W07GR00503	B1MTL7	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				30	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.55	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				18	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.36	pCi/g

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.53	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.030	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				35	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.62	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.55	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				15	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.53	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.55	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				18	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.17	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				32	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	TH-234				1.3	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				34	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.19	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.062	pCi/g
W07GR00504	B1MRW9	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				37	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.64	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.47	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.58	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.037	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				34	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	K-40				13	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.69	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.61	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.58	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				18	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.64	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.13	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				26	%
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.22	pCi/g
W07GR00505	B1MTK4	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.62	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				20	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.33	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				49	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.45	pCi/g

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				20	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.037	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				37	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.63	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				15	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.50	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				17	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.45	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				20	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.62	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				20	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	TH-234				1.4	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				44	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.20	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				19	%
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.091	pCi/g
W07GR00506	B1MTK5	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				46	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.63	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.41	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				28	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.50	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				17	%

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.033	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				32	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.63	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.55	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.50	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				17	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.63	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.12	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				26	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.63	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				36	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.20	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.052	pCi/g
W07GR00507	B1MTK6	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				39	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.61	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.40	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.52	pCi/g

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Gronp #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.033	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				35	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.62	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				13	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.59	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.52	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	RA-228				0.61	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.14	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				23	%
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.20	pCi/g
W07GR00508	B1MTK7	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.53	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.42	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				23	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.41	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				16	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.027	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				40	%

RQ=Result Qualifier

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-029 :F07-029

Group #: WSCF20070491
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.54	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				14	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.44	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				14	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	RA-226				0.41	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error				16	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis grd H2O	RA-228				0.53	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error				17	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.13	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				21	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.16	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	U-235				0.053	pCi/g
W07GR00509	B1MRX1	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error				31	%

RQ=Result Qualifier

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M4W41-SLF-07-233

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 15 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

4/23/07
File KP

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program
Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 121640/ES10
Group#: 20070491
Project#: F07-029
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

The following samples were received from you on 03/22/07. 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
W07GR00499	B1MRX0	TRENT @2008 @GEA-GPP @GPP6010 @IC-30 @PCBGPP @SR89_90 PERSOLID	Solid, or handle as if solid	03/15/07
W07GR00500	B1MTL4	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/14/07
W07GR00501	B1MTL5	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/14/07
W07GR00502	B1MTL6	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/15/07
W07GR00503	B1MTL7	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/15/07
W07GR00504	B1MRW9	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/15/07
W07GR00505	B1MTK4	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/19/07
W07GR00506	B1MTK5	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/19/07
W07GR00507	B1MTK6	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/19/07
W07GR00508	B1MTK7	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/20/07
W07GR00509	B1MRX1	TRENT @GEA-GPP @SR89_90	Solid, or handle as if solid	03/19/07

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SR89_90	Strontium 89/90

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 121640/ES10
Group#: 20070491
Project#: F07-029
Proj Mgr: Steve Trent A0-21
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
PERSOLID	Percent Solids

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-027

COLLECTOR: Wise/Mokler	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days		
SAMPLING LOCATION: C5616, I-3 3'-4' bgs	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	AIR QUALITY
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE: 20070491

PRESERVATION	Cool 4C	None
TYPE OF CONTAINER	aG	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1
VOLUME	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1MRX0	SOIL	3-15-07	1350
W076R00449			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: W.M. Wise	3-15-07 1500	B C Ref	3-15-07 1500
RELINQUISHED BY/REMOVED FROM: K Hughes	3/2/07 1540		3/2/07 1540
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Molybdenum, Selenium, Thallium, Tin, Uranium} ICP Metals - 6010B (Add-On) {Boron, Lithium} 200.8_HG - ICPMS; IC Anions - 300.0 {Chloride, Fluoride, Sulfate} PCBs - 8082;
(2)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-027 PAGE 1 OF 1

COLLECTOR: Wise/Mokler	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	SAMPLING LOCATION: CS616, I-3 3'-4' bgs	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling
SAF NO.: F07-029	AIR QUALITY: I	ICE CHEST NO.	FIELD LOGBOOK NO.
COA: 1215276510 ~~1216140ES10~~ mm 3-7-07	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A
BILL OF LADING/AIR BILL NO.: N/A			

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C	None
TYPE OF CONTAINER	aG	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1
VOLUME	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

mm 3-7-07

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1MRX0	SOIL	3-15-07	1350	✓	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
W.M. Wise	3-15-07 1500	BC Ref	3-15-07 1500
BC Fridge	3-22-07 1500	K Hughes	3-22-07 1500
K Hughes	3-22-07 1540		3/22/07 1540

SPECIAL INSTRUCTIONS

(1)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Molybdenum, Selenium, Thallium, Th, Uranium} ICP Metals - 6010B (Add-On) {Boron, Lithium} 200.8 HG - ICPMS; IC Anions - 300.0 {Chloride, Fluoride, Sulfate} PCBs - 8082; mm 3-7-07

(2)~~Gamma Spectroscopy {Cesium-137} Strontium-89,90 — Total Sr;~~

ICED Initial Date

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-072 PAGE 1 OF 1

COLLECTOR: Wise Lanman	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY: —	
SAMPLING LOCATION: C5624, I-1 0-6" bgs	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MTL4	SOIL	03-14-17	1150	✓
W076R00500				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
WLanman	13-14-07 1350	BC Crib RMA-046 Frig	3-14-07 1350
BC Crib RMA Fridge	3-22-07/1500	KNUGNES	3-22-07/1500
KNUGNES	3-22-07/1540		3/22/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8H	DATA TURNAROUND
Wise, Lanman	TRENT, SJ	373-5869	TRENT, SJ		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	30 Days / 30 Days
C5624, I-2 6-12" bgs	UR-1 Operable Unit Auger and Surficial Sampling		F07-029		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
		121640ES10	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1MTL5	SOIL	03-14-07	1155
501			

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L.L. Lanman	3-14-07 1350	BC Crib RMA-046 Frig	3-14-07 1350
~~KNUGHES~~	~~3-22-07~~	KN	3-22-07
BC RMA Fridge	3-22-07 1500	KNUGHES	3-22-07 1500
KNUGHES	3-22-07 1540		3/22/07 1540

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-074 PAGE 1 OF 1

COLLECTOR: MOKLKE/WKSF	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY:	
SAMPLING LOCATION: C5624, I-3 3'5" - 4'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1MTL6	SOIL	3/15/07	0905
502			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
W M Nisell	3-15-07 1100	RCRMA Refer 046	3-15-07 1100
RCRMA Fridge	3-22-07 1500	K NUGNES	3-22-07 1500
K NUGNES	3-22-07 1540	KBoz	3/22/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-075 | PAGE 1 OF 1

COLLECTOR: MOKLER / WISE	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY:	
SAMPLING LOCATION: C5624, I-4 6'-7'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1MTL7 503	SOIL	3/15/07	0935

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	3-15-07 1100	BC RMA 046 Refer	3-15-07 1100
BC Cri RMA Fridge	3-22-07 1500	K HUGHES [illegible]	3-22-07 1500
K HUGHES [illegible]	3-22-07 1540	[illegible]	3/22/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-026 PAGE 1 OF 1

COLLECTOR: Mok/Fk/Wise	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
SAMPLING LOCATION: C5616, I-2 ~~0-6"~~ 6"-12" 3/15/7	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling		SAF NO.: F07-029
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8H

AIR QUALITY: ☐

DATA TURNAROUND: 30 Days / 30 Days

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1MRW9	SOIL	3/15/7	1310
504			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
W.M. Wise Wise	3-15-07 1500	B C Roy	3-15-07 1500
B.C. Roy	3-22-07 1500	K HUGHES	3-22-07 1500
K HUGHES	3-22-07 1540		3/22/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-062

COLLECTOR: Pope	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5622, I-1 0-.5'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MTK4	SOIL	3-19-07	1255	X
505				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pope/[illegible]	3-19-07 1500	BC AREA Fridge	3-19-07 1500
BC AREA Fridge	3-20-07/1500	KHUGHES/[illegible]	3-20-07/1500
KHUGHES/[illegible]	3-20-07/1540	[illegible]	3/20/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-063 PAGE 1 OF 1

COLLECTOR: POPE	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY:	
SAMPLING LOCATION: C5622, I-2 .5'-1'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling		SAF NO.: F07-029
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640E510	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MTK5	SOIL	3-19-07	1305	X
586				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pope / [signature] 3-19-07	1500	BC RMA Fridge 3-19-07	1500
BC RMA Fridge / 3-22-07	1500	K HUGHES [signature] / 3-22-07	1500
K HUGHES [signature] / 3-22-07	1540	KBO [signature] 5/22/07	1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-064 PAGE 1 OF 1

COLLECTOR: Pope	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days		
SAMPLING LOCATION: C5622, I-3 3'-4'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	AIR QUALITY: —
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MTK6	SOIL	3.19.07	1415	X
5207				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pope / [signature] 3.19.07	1510	BC RMA Fridge 3.19.07	1510
BC RMA Fridge / 3-22-07	1500	K HUGHES [signature] / 3-22-07	1500
K HUGHES [signature] / 3-22-07	1540	[signature] 3/22/07	1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-029-065 PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days		
SAMPLING LOCATION: C5622, I-4 6'-7' bgs	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling		SAF NO.: F07-029
AIR QUALITY: ☐			
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MTK7	SOIL	3-20-07	0845	L
508				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KNUGHES	3-20-07/1450	BCCrib RMA trailer	3-20-07/1450
BCCrib RMA Fridge	3-20-07/1500	KNUGHES	3-20-07/1500
KNUGHES	3-20-07/1540	[illegible]	3/20/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)

Fluor Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | F07-029-028 | PAGE 1 OF 1

COLLECTOR: W. M. Wise	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8H	DATA TURNAROUND: 30 Days / 30 Days	AIR QUALITY:	
SAMPLING LOCATION: C5616, I-4 6'-7'	PROJECT DESIGNATION: UR-1 Operable Unit Auger and Surficial Sampling	SAF NO.: F07-029	
ICE CHEST NO.:	FIELD LOGBOOK NO.:	COA: 121640ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: 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)

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	Square Bottle - Poly
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1MRX1	SOIL	3-19-07	1010	X
509				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
~~W. M. Wise~~	3-19-07		
J. Rule	3-19-07 1500	BC Area Fridge	3-19-07 1500
BC Fridge	3-22-07 / 1500	K HUGHES	3-22-07 / 1500
K HUGHES	3-22-07 / 1540		3/22/07 1540

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137} Strontium-89,90 -- Total Sr;

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

A-6003-618(01/06)