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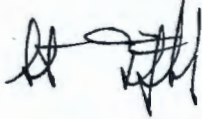
Memorandum

M4W41-SLF-08-494

To: H. Hampt E6-35

Date: May 8, 2008

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



cc: w/Attachments

T. F. Dale S3-30
H. K. Mezmarich S3-30
P. D. Mix S3-30

J. E. Trechter S3-30
S. J. Trent E6-35
File/LB

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080591 – SAF NUMBER F08-070

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 WSCF20080591:

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

SLF/grf

Attachments 5

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M4W41-SLF-08-494

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080591
Data Deliverable Date: 05-may-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-070	B1TN39	W08GR00697	SOIL
	B1TN41	W08GR00694	SOIL
	B1TN43	W08GR00696	SOIL
	B1TNP2	W08GR00695	SOIL

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ATTACHMENT 2

NARRATIVE

Consisting of 5 pages
Including cover page

Introduction

Six S&GRP samples were received at the WSCF Laboratory on March 20, 2008. Two of the 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. Analysis of the high concentration VOAs and the associated Methanol Blanks (B1TNP1 and B1TN40) were not required.

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

It should be noted that the attached chain of custody was stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 14 through 16, for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – The hold time requirement for this analysis was 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 21 for QC details. Analytical Note(s):

- Sample result was D flagged (dilution).
- Matrix Spike and Matrix Spike Duplicate recoveries were less than established laboratory limits. Sample result was N flagged.

All other QC controls are within the established limits.

Anions – Holding time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 22 through 23 for QC details. Analytical Note(s):

- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit were B flagged.

All QC controls are within the established limits.

Cyanide – 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 24 for QC details.

All QC controls are within the established limits.

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 25 through 26 for QC details. Analytical Note(s):

- Lithium - Due to possible Calcium interface, the spectrum was manually checked and calculated. Sample results were E flagged (estimates).
- Aluminum, Iron and Sodium sample results exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check and high standards were analyzed to ensure sample result linearity because the sample results were greater than the calibration standard.
- No Lithium present in LCS.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 27 through 31 for QC details. Analytical Note(s):

- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1TTD4 (SDG# 20080650, SAF# F08-088) and B1TN41 of this SDG
- Mercury contamination detected in the Blank was evaluated and there was no affect on sample results.

All other QC controls are within the established limits.

Organic Comments

All organic results corrected for moisture and reported on a dry weight basis.

Alcohol/Glycols - The hold time requirement for this analysis was 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 45 for QC details.

All QC controls are within the established limits.

Semi-VOA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GPP Letter of Instruction. See pages 46 through 51 for QC details. Analytical Note(s):

- Sample results that were less than the lowest calibration standard, however greater than the method detection limit were J flagged.

All QC controls are within the established limits.

TPHD-WA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See page 52 for QC details.

All QC controls are within the established limits.

VOA – The holding 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 the GRP Letter of Instruction. See pages 53 through 56 for QC details. Analytical Note(s):

- Analysis of the high concentration VOAs and the associated Methanol Blanks (B1TNP1 and B1TN40) were not required.
- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TDD1 (SDG# 20080561, SAF# F08-043).

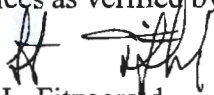
All QC controls are within the established limits.

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 63 through 68 for QC details.

- Americium-241 and 243 (tracer) – Duplicate QC was analyzed on sample# B1TDD3 (SDG# 20080561, SAF# F08-043).
- Neptunium-237 – Duplicate QC, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TDD3 (SDG# 20080561, SAF# F08-043). Matrix Spikes were also analyzed on B1TN41 and B1TNP2 of this SDG.
- Plutonium-238, 239/240, 242 (tracer) – Duplicate QC was analyzed on sample# B1TDD3 (SDG# 20080561, SAF# F08-043).
- Uranium-232 (tracer), 233/234, 235 and 238 – Duplicate QC was analyzed on sample# B1TDD3 (SDG# 20080561, SAF# F08-043).

All QC controls are within the established limits.

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


Scot L. Fitzgerald
WSCF Analytical Laboratory Manager


John E. Trechter
WSCF Client Services

M4W41-SLF-08-494

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 60 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *S. Fitzgerald 5/8/08*
Client Services: *P.D. Mix 5/8/2008*

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

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080591
Report Date: 8-may-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Page 1

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20080591

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W08GR00694	Percent Solids
				SAMPLE	W08GR00695	Percent Solids
35806	1	36212	40508	BLANK		Cyanide by Midi/Spectrophotom
35806	2	36212	40508	LCS		Cyanide by Midi/Spectrophotom
35806	4	36212	40508	MS	W08GR00694	Cyanide by Midi/Spectrophotom
35806	5	36212	40508	MSD	W08GR00694	Cyanide by Midi/Spectrophotom
35806	3	36212	40508	SAMPLE	W08GR00694	Cyanide by Midi/Spectrophotom
35806	5	36212	40508	SPK-RPD	W08GR00694	Cyanide by Midi/Spectrophotom
35806	7	36212	40508	SAMPLE	W08GR00695	Cyanide by Midi/Spectrophotom
35812	1	36217	40513	BLANK		ICP-200.8 MS All possible meta
35812	2	36217	40513	LCS		ICP-200.8 MS All possible meta
35812	7	36217	40513	MS	W08GR00694	ICP-200.8 MS All possible meta
35812	8	36217	40513	MSD	W08GR00694	ICP-200.8 MS All possible meta
35812	6	36217	40513	SAMPLE	W08GR00694	ICP-200.8 MS All possible meta
35812	8	36217	40513	SPK-RPD	W08GR00694	ICP-200.8 MS All possible meta
35812	9	36217	40513	SAMPLE	W08GR00695	ICP-200.8 MS All possible meta
35812	4	36217	40513	MS	W08GR00781	ICP-200.8 MS All possible meta
35812	5	36217	40513	MSD	W08GR00781	ICP-200.8 MS All possible meta
35812	5	36217	40513	SPK-RPD	W08GR00781	ICP-200.8 MS All possible meta
35875	2	36280	40566	BLANK		Anions by Ion Chromatography
35875	17	36280	40566	BLANK		Anions by Ion Chromatography
35875	3	36280	40566	LCS		Anions by Ion Chromatography
35875	5	36280	40566	DUP	W08GR00694	Anions by Ion Chromatography
35875	6	36280	40566	MS	W08GR00694	Anions by Ion Chromatography
35875	7	36280	40566	MSD	W08GR00694	Anions by Ion Chromatography
35875	4	36280	40566	SAMPLE	W08GR00694	Anions by Ion Chromatography
35875	7	36280	40566	SPK-RPD	W08GR00694	Anions by Ion Chromatography
35875	12	36280	40566	SAMPLE	W08GR00695	Anions by Ion Chromatography
35886	3	36301	40569	BLANK		Ammonia (N) by IC
35886	12	36301	40569	BLANK		Ammonia (N) by IC
35886	2	36301	40569	LCS		Ammonia (N) by IC
35886	5	36301	40569	DUP	W08GR00694	Ammonia (N) by IC
35886	6	36301	40569	MS	W08GR00694	Ammonia (N) by IC
35886	7	36301	40569	MSD	W08GR00694	Ammonia (N) by IC
35886	4	36301	40569	SAMPLE	W08GR00694	Ammonia (N) by IC
35886	7	36301	40569	SPK-RPD	W08GR00694	Ammonia (N) by IC
35886	8	36301	40569	SAMPLE	W08GR00695	Ammonia (N) by IC
35906	1	36325	40618	BLANK		ICP Metals Analysis, Grd H2O P
35906	2	36325	40618	LCS		ICP Metals Analysis, Grd H2O P
35906	4	36325	40618	MS	W08GR00694	ICP Metals Analysis, Grd H2O P
35906	5	36325	40618	MSD	W08GR00694	ICP Metals Analysis, Grd H2O P
35906	3	36325	40618	SAMPLE	W08GR00694	ICP Metals Analysis, Grd H2O P
35906	5	36325	40618	SPK-RPD	W08GR00694	ICP Metals Analysis, Grd H2O P
35906	6	36325	40618	SAMPLE	W08GR00695	ICP Metals Analysis, Grd H2O P

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20080591

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			40600	BLANK		SW-846 8270C Semi-Vols
			40600	LCS		SW-846 8270C Semi-Vols
			40600	MS	W08GR00694	SW-846 8270C Semi-Vols
			40600	MSD	W08GR00694	SW-846 8270C Semi-Vols
			40600	SAMPLE	W08GR00694	SW-846 8270C Semi-Vols
			40600	SPK-RPD	W08GR00694	SW-846 8270C Semi-Vols
			40600	SURR	W08GR00694	SW-846 8270C Semi-Vols
			40600	SAMPLE	W08GR00695	SW-846 8270C Semi-Vols
			40600	SURR	W08GR00695	SW-846 8270C Semi-Vols
			40612	BLANK		NWTPH-D TPH Diesel Range (Wa)
			40612	LCS		NWTPH-D TPH Diesel Range (Wa)
			40612	MS	W08GR00694	NWTPH-D TPH Diesel Range (Wa)
			40612	MSD	W08GR00694	NWTPH-D TPH Diesel Range (Wa)
			40612	SAMPLE	W08GR00694	NWTPH-D TPH Diesel Range (Wa)
			40612	SPK-RPD	W08GR00694	NWTPH-D TPH Diesel Range (Wa)
			40612	SURR	W08GR00694	NWTPH-D TPH Diesel Range (Wa)
			40612	SAMPLE	W08GR00695	NWTPH-D TPH Diesel Range (Wa)
			40612	SURR	W08GR00695	NWTPH-D TPH Diesel Range (Wa)
			40898	BLANK		VOA Ground Water Protection
			40898	LCS		VOA Ground Water Protection
			40898	MS	W08GR00665	VOA Ground Water Protection
			40898	MSD	W08GR00665	VOA Ground Water Protection
			40898	SPK-RPD	W08GR00665	VOA Ground Water Protection
			40898	SAMPLE	W08GR00696	VOA Ground Water Protection
			40898	SURR	W08GR00696	VOA Ground Water Protection
			40898	SAMPLE	W08GR00697	VOA Ground Water Protection
			40898	SURR	W08GR00697	VOA Ground Water Protection
36181	1	36600	40922	BLANK		Alcohols, Glycols - 8015
36181	2	36600	40922	LCS		Alcohols, Glycols - 8015
36181	4	36600	40922	DUP	W08GR00694	Alcohols, Glycols - 8015
36181	5	36600	40922	MS	W08GR00694	Alcohols, Glycols - 8015
36181	6	36600	40922	MSD	W08GR00694	Alcohols, Glycols - 8015
36181	3	36600	40922	SAMPLE	W08GR00694	Alcohols, Glycols - 8015
36181	6	36600	40922	SPK-RPD	W08GR00694	Alcohols, Glycols - 8015
36181	7	36600	40922	SAMPLE	W08GR00695	Alcohols, Glycols - 8015

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20080591

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35861	1	36267	40754	BLANK		Strontium 89/90
35861	2	36267	40754	LCS		Strontium 89/90
35861	3	36267	40754	DUP	W08GR00694	Strontium 89/90
35861	4	36267	40754	SAMPLE	W08GR00694	Strontium 89/90
35861	5	36267	40754	SURR	W08GR00694	Strontium 89/90
35861	6	36267	40754	SAMPLE	W08GR00695	Strontium 89/90
35861	7	36267	40754	SURR	W08GR00695	Strontium 89/90
35714	1	36120	40775	BLANK		Gamma Energy Analysis-grd H2O
35714	2	36120	40775	LCS		Gamma Energy Analysis-grd H2O
35714	3	36120	40775	DUP	W08GR00694	Gamma Energy Analysis-grd H2O
35714	4	36120	40775	SAMPLE	W08GR00694	Gamma Energy Analysis-grd H2O
35714	5	36120	40775	SAMPLE	W08GR00695	Gamma Energy Analysis-grd H2O
35796	1	36201	40794	BLANK		Uranium Isotopics by AEA
35796	2	36201	40794	LCS		Uranium Isotopics by AEA
35796	3	36201	40794	DUP	W08GR00663	Uranium Isotopics by AEA
35796	6	36201	40794	SAMPLE	W08GR00694	Uranium Isotopics by AEA
35796	7	36201	40794	SURR	W08GR00694	Uranium Isotopics by AEA
35796	8	36201	40794	SAMPLE	W08GR00695	Uranium Isotopics by AEA
35796	9	36201	40794	SURR	W08GR00695	Uranium Isotopics by AEA
35835	1	36241	40799	BLANK		Plutonium Isotopics by AEA
35835	2	36241	40799	LCS		Plutonium Isotopics by AEA
35835	3	36241	40799	DUP	W08GR00663	Plutonium Isotopics by AEA
35835	6	36241	40799	SAMPLE	W08GR00694	Plutonium Isotopics by AEA
35835	7	36241	40799	SURR	W08GR00694	Plutonium Isotopics by AEA
35835	8	36241	40799	SAMPLE	W08GR00695	Plutonium Isotopics by AEA
35835	9	36241	40799	SURR	W08GR00695	Plutonium Isotopics by AEA
35836	1	36242	40800	BLANK		Americium by AEA
35836	2	36242	40800	LCS		Americium by AEA
35836	3	36242	40800	DUP	W08GR00663	Americium by AEA
35836	6	36242	40800	SAMPLE	W08GR00694	Americium by AEA
35836	7	36242	40800	SURR	W08GR00694	Americium by AEA
35836	8	36242	40800	SAMPLE	W08GR00695	Americium by AEA
35836	9	36242	40800	SURR	W08GR00695	Americium by AEA
36175	1	36592	40928	BLANK		Neptunium by AEA
36175	2	36592	40928	LCS		Neptunium by AEA
36175	3	36592	40928	DUP	W08GR00663	Neptunium by AEA
36175	5	36592	40928	MS	W08GR00663	Neptunium by AEA
36175	6	36592	40928	MSD	W08GR00663	Neptunium by AEA
36175	6	36592	40928	SPK-RPD	W08GR00663	Neptunium by AEA
36175	8	36592	40928	MS	W08GR00694	Neptunium by AEA
36175	7	36592	40928	SAMPLE	W08GR00694	Neptunium by AEA
36175	10	36592	40928	MS	W08GR00695	Neptunium by AEA
36175	9	36592	40928	SAMPLE	W08GR00695	Neptunium by AEA

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-503-401	LA-503-401: ANALYSIS OF CATIONS BY ION CHROMATOGRAPHY	
	EPA-600/4-86-024 300.7	Dissolved Sodium, Ammonium, Potassium, and Calcium in Wet Deposition by Chemical
	HEIS 300.7_CATIONS_IC	Determination of Ammonium by Ion Chromatography
LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE	
	HEIS 6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmission 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
	HEIS RADISOTOPES_ICPMS	Radioisotopes by ICP/MS
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
LA-695-402	LA-695-402: DETERMINATION OF CYANIDE BY MIDIDISTILLATION AND SPECTROPHOTOMETRIC	
	EPA-600/4-79-020 335.2	Cyanide, Total
	HEIS 335.2_CYANIDE	Cyanide, Total

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

Report Date: 8-may-2008
Report#: WSCF20080591
Report WGPPM/5.2

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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-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846	
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8260B	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
	HEIS 8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
LA-523-456	LA-523-456: SEMIVOLATILE SAMPLE ANALYSIS BY SW-846, METHOD 8270C	
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
	HEIS 8270_SVOA_GCMS	Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)
LA-523-493	NWTPH-Diesel and/or Gasoline	
	HEIS WTPH_DIESEL (HEIS)	Total Petroleum Hydrocarbons in Diesel
	WDOE TPHD	Total Petroleum Hydrocarbons in Diesel
Organics	Organics - Alcohols, Glycols	
	EPA SW-846 8015B	Nonhalogenated Organics Using GC/FID

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

Report Date: 8-may-2008
Report#: WSCF20080591
Report WGPPM/5.2

Page 1

WSCF

METHOD REFERENCES REPORT

Department: Radiochemistry

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

LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS	
	HEIS ALPHA_GPC	GROSS ALPHA GPC
	HEIS BETA_GPC	GROSS BETA GPC
	HEIS SRTOT_SEP_PRECIP_GPC	Plutonium 89/90
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP	
	HEIS PUIISO_IE_PRECIP_AEA	Plutonium by Alpha Energy Analysis
	HEIS RAISO_AEA	Radium-226
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE	
	HEIS GAMMA_GS	Gamma Emmission 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: F08-070
Sample # W08GR00694
Client ID: B1TN41 TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Inorganic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											04/07/08
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.300	mg/kg			50.00	0.30		04/07/08
Chloride	16887-00-6	LA-533-410	BD	2.26	mg/kg			50.00	1.5		04/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.500	mg/kg			50.00	0.50		04/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	2.89	mg/kg			50.00	0.25		04/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 2.00	mg/kg			50.00	2.0		04/07/08
Sulfate	14808-79-8	LA-533-410	BD	11.8	mg/kg			50.00	3.5		04/07/08
Cyanide											
Cyanide	57-12-5	LA-695-402	U	< 0.200	mg/kg			1.00	0.20		04/01/08
ICP Metals Analysis, Grd H2O P Prep											04/09/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411		5.82e+03	mg/kg			98.35	3.0		04/09/08
Iron	7439-89-6	LA-505-411		1.48e+04	mg/kg			98.35	0.89		04/09/08
Nickel	7440-02-0	LA-505-411		17.0	mg/kg			98.35	0.39		04/09/08
Silver	7440-22-4	LA-505-411	U	< 0.492	mg/kg			98.35	0.49		04/09/08
Sodium	7440-23-5	LA-505-411		507	mg/kg			98.35	2.7		04/09/08
Copper	7440-50-8	LA-505-411		8.88	mg/kg			98.35	0.39		04/09/08
Lithium	7439-93-2	LA-505-411	E	8.56	mg/kg			98.35	0.39		04/09/08
Boron	7440-42-8	LA-505-411	U	< 0.787	mg/kg			98.35	0.79		04/09/08
ICP-200.8 MS All possible meta Prep											04/01/08
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		254	mg/kg			1.00	0.0996		04/02/08
Antimony	7440-36-0	LA-505-412	U	< 0.299	mg/kg			1.00	0.299		04/02/08
Barium	7440-39-3	LA-505-412		78.1	mg/kg			1.00	0.199		04/02/08

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

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria(inorg)

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: B1TN41

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Inorganic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Beryllium	7440-41-7	LA-505-412		0.200	mg/kg			1.00	0.0498		04/02/08
Cadmium	7440-43-9	LA-505-412	U	< 0.0996	mg/kg			1.00	0.0996		04/02/08
Chromium	7440-47-3	LA-505-412		10.7	mg/kg			1.00	0.498		04/02/08
Cobalt	7440-48-4	LA-505-412		4.92	mg/kg			1.00	0.0498		04/02/08
Vanadium	7440-62-2	LA-505-412		29.7	mg/kg			1.00	0.199		04/02/08
Zinc	7440-66-6	LA-505-412		31.1	mg/kg			1.00	0.796		04/02/08
Lead	7439-92-1	LA-505-412		2.82	mg/kg			1.00	0.0996		04/02/08
Mercury	7439-97-6	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498		04/02/08
Uranium	7440-61-1	LA-505-412		0.360	mg/kg			1.00	0.0498		04/02/08
Arsenic	7440-38-2	LA-505-412		2.40	mg/kg			1.00	0.398		04/02/08
Selenium	7782-49-2	LA-505-412	U	< 0.299	mg/kg			1.00	0.299		04/02/08
Thallium	7440-28-0	LA-505-412		1.18	mg/kg			1.00	0.0996		04/02/08
Strontium	7440-24-6	LA-505-412		25.8	mg/kg			1.00	0.0996		04/02/08
Nitrogen in ammonium Prep											04/07/08
Nitrogen in ammonium											
Nitrogen in ammonium	NH4-N	LA-503-401	DNU	< 0.200	mg/kg			50.00	0.20		04/07/08
Total solids											
Total solids	TS	LA-519-412		97.0	Percent			1.00	0.0		03/31/08

MDL=Minimum Detection Limit

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TP Err=Total Propagated Error

DF=Dilution Factor

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J - Analyte < lowest calibration but > = MDL.(org)

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

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N - Spike sample recovery is outside control limits.(inorg)

U - Analyzed for but not detected above limiting criteria.

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2 TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Inorganic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											04/07/08
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.294	mg/kg			49.00	0.29		04/07/08
Chloride	16887-00-6	LA-533-410	BD	2.13	mg/kg			49.00	1.5		04/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.490	mg/kg			49.00	0.49		04/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	2.94	mg/kg			49.00	0.24		04/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 1.96	mg/kg			49.00	2.0		04/07/08
Sulfate	14808-79-8	LA-533-410	BD	16.2	mg/kg			49.00	3.4		04/07/08
Cyanide											
Cyanide	57-12-5	LA-695-402	U	< 0.200	mg/kg			1.00	0.20		04/01/08
ICP Metals Analysis, Grd H2O P Prep											04/09/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411		5.61e+03	mg/kg			99.42	3.0		04/09/08
Iron	7439-89-6	LA-505-411		1.55e+04	mg/kg			99.42	0.89		04/09/08
Nickel	7440-02-0	LA-505-411		21.3	mg/kg			99.42	0.40		04/09/08
Silver	7440-22-4	LA-505-411	U	< 0.497	mg/kg			99.42	0.50		04/09/08
Sodium	7440-23-5	LA-505-411		484	mg/kg			99.42	2.7		04/09/08
Copper	7440-50-8	LA-505-411		10.0	mg/kg			99.42	0.40		04/09/08
Lithium	7439-93-2	LA-505-411	E	7.92	mg/kg			99.42	0.40		04/09/08
Boron	7440-42-8	LA-505-411	U	< 0.795	mg/kg			99.42	0.80		04/09/08
ICP-200.8 MS All possible meta Prep											04/01/08
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		274	mg/kg			1.23	0.123		04/02/08
Antimony	7440-36-0	LA-505-412	U	< 0.368	mg/kg			1.23	0.368		04/02/08
Barium	7440-39-3	LA-505-412		73.7	mg/kg			1.23	0.245		04/02/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: BITNP2

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Inorganic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Beryllium	7440-41-7	LA-505-412		0.330	mg/kg			1.23	0.0613		04/02/08
Cadmium	7440-43-9	LA-505-412	U	< 0.123	mg/kg			1.23	0.123		04/02/08
Chromium	7440-47-3	LA-505-412		12.4	mg/kg			1.23	0.613		04/02/08
Cobalt	7440-48-4	LA-505-412		6.18	mg/kg			1.23	0.0613		04/02/08
Vanadium	7440-62-2	LA-505-412		32.0	mg/kg			1.23	0.245		04/02/08
Zinc	7440-66-6	LA-505-412		35.8	mg/kg			1.23	0.981		04/02/08
Lead	7439-92-1	LA-505-412		4.03	mg/kg			1.23	0.123		04/02/08
Mercury	7439-97-6	LA-505-412	U	< 0.0613	mg/kg			1.23	0.0613		04/02/08
Uranium	7440-61-1	LA-505-412		0.720	mg/kg			1.23	0.0613		04/02/08
Arsenic	7440-38-2	LA-505-412		4.78	mg/kg			1.23	0.490		04/02/08
Selenium	7782-49-2	LA-505-412	U	< 0.368	mg/kg			1.23	0.368		04/02/08
Thallium	7440-28-0	LA-505-412		1.79	mg/kg			1.23	0.123		04/02/08
Strontium	7440-24-6	LA-505-412		32.0	mg/kg			1.23	0.123		04/02/08
Nitrogen in ammonium Prep											04/07/08
Nitrogen in ammonium											
Nitrogen in ammonium	NH4-N	LA-503-401	DNU	< 0.196	mg/kg			49.00	0.20		04/07/08
Total solids											
Total solids	TS	LA-519-412		96.6	Percent			1.00	0.0		03/31/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591

Matrix: SOLID

Test: Ammonia (N) by IC

Sample Date: 03/19/08

Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Ammonia (N) by IC	7664-41-7	<0.2		RPD			n/a	20.000	U	04/07/08
MS	Ammonia (N) by IC	7664-41-7	0.187458	37.492	% Recov	75.000	125.000				04/07/08
MSD	Ammonia (N) by IC	7664-41-7	0.185434	37.087	% Recov	75.000	125.000				04/07/08
SPK-RPD	Ammonia (N) by IC	7664-41-7	37.087		RPD			1.086	20.000		04/07/08
BATCH QC											
BLANK	Ammonia (N) by IC	7664-41-7	<4e-3	n/a	mg/L	0.000	0.002			U	04/07/08
BLANK	Ammonia (N) by IC	7664-41-7	<4e-3	n/a	mg/L	0.000	0.002			U	04/07/08
LCS	Ammonia (N) by IC	7664-41-7	90.7239	90.724	% Recov	80.000	120.000				04/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	2.3368		RPD			3.253	20.000		04/07/08
DUP	Fluoride	16984-48-8	<0.3		RPD			n/a	20.000	U	04/07/08
DUP	Nitrogen in Nitrite	NO2-N	<0.5		RPD			n/a	20.000	U	04/07/08
DUP	Nitrogen in Nitrate	NO3-N	3.388		RPD			15.779	20.000		04/07/08
DUP	Phosphate (P) by IC	PO4-P	<2		RPD			n/a	20.000	U	04/07/08
DUP	Sulfate	14808-79-8	14.0456		RPD			17.102	20.000		04/07/08
MS	Chloride	16887-00-6	0.955116	95.512	% Recov	75.000	125.000				04/07/08
MS	Fluoride	16984-48-8	0.483634	97.115	% Recov	75.000	125.000				04/07/08
MS	Nitrogen in Nitrite	NO2-N	0.485538	97.694	% Recov	75.000	125.000				04/07/08
MS	Nitrogen in Nitrate	NO3-N	0.453794	100.843	% Recov	75.000	125.000				04/07/08
MS	Phosphate (P) by IC	PO4-P	0.919476	95.085	% Recov	75.000	125.000				04/07/08
MS	Sulfate	14808-79-8	1.925564	97.251	% Recov	75.000	125.000				04/07/08
MSD	Chloride	16887-00-6	0.94428	94.428	% Recov	75.000	125.000				04/07/08
MSD	Fluoride	16984-48-8	0.479034	96.192	% Recov	75.000	125.000				04/07/08
MSD	Nitrogen in Nitrite	NO2-N	0.470814	94.731	% Recov	75.000	125.000				04/07/08
MSD	Nitrogen in Nitrate	NO3-N	0.449032	99.785	% Recov	75.000	125.000				04/07/08
MSD	Phosphate (P) by IC	PO4-P	0.925338	95.692	% Recov	75.000	125.000				04/07/08
MSD	Sulfate	14808-79-8	1.912654	96.599	% Recov	75.000	125.000				04/07/08
SPK-RPD	Chloride	16887-00-6	94.428		RPD			1.141	20.000		04/07/08
SPK-RPD	Fluoride	16984-48-8	96.192		RPD			0.955	20.000		04/07/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	94.731		RPD			3.080	20.000		04/07/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	99.785		RPD			1.055	20.000		04/07/08
SPK-RPD	Phosphate (P) by IC	PO4-P	95.692		RPD			0.636	20.000		04/07/08
SPK-RPD	Sulfate	14808-79-8	96.599		RPD			0.673	20.000		04/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	04/07/08
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	04/07/08
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	04/07/08
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	04/07/08
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	04/07/08
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	04/07/08
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	04/07/08
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	04/07/08
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	04/07/08
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	04/07/08
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	04/07/08
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	04/07/08
LCS	Chloride	16887-00-6	197.9609	98.488	% Recov	80.000	120.000				04/07/08
LCS	Fluoride	16984-48-8	104.9652	105.387	% Recov	80.000	120.000				04/07/08
LCS	Nitrogen in Nitrite	NO2-N	99.9855	100.589	% Recov	80.000	120.000				04/07/08
LCS	Nitrogen in Nitrate	NO3-N	92.3455	102.492	% Recov	80.000	120.000				04/07/08
LCS	Phosphate (P) by IC	PO4-P	197.7525	102.251	% Recov	80.000	120.000				04/07/08
LCS	Sulfate	14808-79-8	388.7195	98.161	% Recov	80.000	120.000				04/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Cyanide by Midi/Spectrophotom	57-12-5	1.84	92.462	% Recov	75.000	125.000				04/01/08
MSD	Cyanide by Midi/Spectrophotom	57-12-5	1.78	89.447	% Recov	75.000	125.000				04/01/08
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	89.447		RPD			3.315	20.000		04/01/08
BATCH QC											
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	< 4	n/a	ug/L	-4.000	4.000			U	04/01/08
LCS	Cyanide by Midi/Spectrophotom	57-12-5	49.5	99.000	% Recov	85.000	115.000				04/01/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: ICP Metals Analysis, Grd H2O P

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	188.2	95.533	% Recov	75.000	125.000				04/09/08
MS	Aluminum	7429-90-5	1951	990.355	% Recov	75.000	125.000			•	04/09/08
MS	Boron	7440-42-8	186.9	94.873	% Recov	75.000	125.000				04/09/08
MS	Copper	7440-50-8	198.016	100.516	% Recov	75.000	125.000				04/09/08
MS	Iron	7439-89-6	740	375.635	% Recov	75.000	125.000			•	04/09/08
MS	Lithium	7439-93-2	78.88	80.081	% Recov	70.000	130.000				04/09/08
MS	Sodium	7440-23-5	264	134.010	% Recov	75.000	125.000			•	04/09/08
MS	Nickel	7440-02-0	183.64	93.218	% Recov	75.000	125.000				04/09/08
MSD	Silver	7440-22-4	188.6	94.774	% Recov	75.000	125.000				04/09/08
MSD	Aluminum	7429-90-5	1284	645.226	% Recov	75.000	125.000			•	04/09/08
MSD	Boron	7440-42-8	189.2	95.075	% Recov	75.000	125.000				04/09/08
MSD	Copper	7440-50-8	198.216	99.606	% Recov	75.000	125.000				04/09/08
MSD	Iron	7439-89-6	1450	728.643	% Recov	75.000	125.000			•	04/09/08
MSD	Lithium	7439-93-2	89	89.447	% Recov	75.000	125.000				04/09/08
MSD	Sodium	7440-23-5	242	121.608	% Recov	75.000	125.000				04/09/08
MSD	Nickel	7440-02-0	190.64	95.799	% Recov	75.000	125.000				04/09/08
SPK-RPD	Silver	7440-22-4	94.774		RPD			0.798	20.000		04/09/08
SPK-RPD	Aluminum	7429-90-5	645.226		RPD			42.203	20.000	•	04/09/08
SPK-RPD	Boron	7440-42-8	95.075		RPD			0.213	20.000		04/09/08
SPK-RPD	Copper	7440-50-8	99.606		RPD			0.909	20.000		04/09/08
SPK-RPD	Iron	7439-89-6	728.643		RPD			63.935	20.000	•	04/09/08
SPK-RPD	Lithium	7439-93-2	89.447		RPD			11.050	20.000		04/09/08
SPK-RPD	Sodium	7440-23-5	121.608		RPD			9.704	20.000		04/09/08
SPK-RPD	Nickel	7440-02-0	95.799		RPD			2.731	20.000		04/09/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591

Matrix: SOLID

Test: ICP Metals Analysis, Grd H2O P

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Silver	7440-22-4	<5e-3	n/a	ug/mL					U	04/09/08
BLANK	Aluminum	7429-90-5	<3e-2	n/a	ug/mL					U	04/09/08
BLANK	Boron	7440-42-8	<8e-3	n/a	ug/mL					U	04/09/08
BLANK	Copper	7440-50-8	<4e-3	n/a	ug/mL					U	04/09/08
BLANK	Iron	7439-89-6	<9e-3	n/a	ug/mL					U	04/09/08
BLANK	Lithium	7439-93-2	<4e-3	n/a	ug/mL					U	04/09/08
BLANK	Sodium	7440-23-5	<2.7e-2	n/a	ug/mL					U	04/09/08
BLANK	Nickel	7440-02-0	<4e-3	n/a	ug/mL					U	04/09/08
LCS	Silver	7440-22-4	100.4	99.406	% Recov	45.000	155.000				04/09/08
LCS	Aluminum	7429-90-5	7636	92.446	% Recov	44.000	157.000				04/09/08
LCS	Boron	7440-42-8	110	95.652	% Recov	45.000	156.000				04/09/08
LCS	Copper	7440-50-8	64.65	94.380	% Recov	80.000	120.000				04/09/08
LCS	Iron	7439-89-6	14930	111.418	% Recov	47.000	152.000				04/09/08
LCS	Lithium	7439-93-2	<0.39928	n/a	% Recov	80.000	120.000			U	04/09/08
LCS	Sodium	7440-23-5	513.8	87.381	% Recov	51.000	149.000				04/09/08
LCS	Nickel	7440-02-0	53.95	97.032	% Recov	74.000	121.000				04/09/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Arsenic	7440-38-2	186.5	93.250	% Recov	70.000	130.000				04/02/08
MS	Barium	7440-39-3	167.79	83.895	% Recov	70.000	130.000				04/02/08
MS	Beryllium	7440-41-7	188.6	94.300	% Recov	70.000	130.000				04/02/08
MS	Cadmium	7440-43-9	194.7	97.350	% Recov	70.000	130.000				04/02/08
MS	Cobalt	7440-48-4	189.88	94.940	% Recov	70.000	130.000				04/02/08
MS	Chromium	7440-47-3	193.74	96.870	% Recov	70.000	130.000				04/02/08
MS	Mercury	7439-97-6	2.08	104.000	% Recov	70.000	130.000				04/02/08
MS	Manganese	7439-96-5	183	91.500	% Recov	70.000	130.000				04/02/08
MS	Lead	7439-92-1	191.98	95.990	% Recov	70.000	130.000				04/02/08
MS	Antimony	7440-36-0	190.2	95.100	% Recov	70.000	130.000				04/02/08
MS	Selenium	7782-49-2	191.2	95.600	% Recov	70.000	130.000				04/02/08
MS	Strontium	7440-24-6	196.43	98.215	% Recov	70.000	130.000				04/02/08
MS	Thallium	7440-28-0	178.02	89.010	% Recov	70.000	130.000				04/02/08
MS	Uranium	7440-61-1	199.24	99.620	% Recov	70.000	130.000				04/02/08
MS	Vanadium	7440-62-2	184.38	92.190	% Recov	70.000	130.000				04/02/08
MS	Zinc	7440-66-6	196.14	98.070	% Recov	70.000	130.000				04/02/08
MSD	Arsenic	7440-38-2	185.7	92.850	% Recov	70.000	130.000				04/02/08
MSD	Barium	7440-39-3	166.49	83.245	% Recov	70.000	130.000				04/02/08
MSD	Beryllium	7440-41-7	187.8	93.900	% Recov	70.000	130.000				04/02/08
MSD	Cadmium	7440-43-9	193.5	96.750	% Recov	70.000	130.000				04/02/08
MSD	Cobalt	7440-48-4	193.48	96.740	% Recov	70.000	130.000				04/02/08
MSD	Chromium	7440-47-3	195.64	97.820	% Recov	70.000	130.000				04/02/08
MSD	Mercury	7439-97-6	2.2	110.000	% Recov	70.000	130.000				04/02/08
MSD	Manganese	7439-96-5	181.2	90.600	% Recov	70.000	130.000				04/02/08
MSD	Lead	7439-92-1	193.78	96.890	% Recov	70.000	130.000				04/02/08
MSD	Antimony	7440-36-0	193.2	96.600	% Recov	70.000	130.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591

Matrix: SOLID

Test: ICP-200.8 MS All possible meta

Sample Date: 03/19/08

Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Selenium	7782-49-2	191.8	95.900	% Recov	70.000	130.000				04/02/08
MSD	Strontium	7440-24-6	195.23	97.615	% Recov	70.000	130.000				04/02/08
MSD	Thallium	7440-28-0	180.52	90.260	% Recov	70.000	130.000				04/02/08
MSD	Uranium	7440-61-1	200.44	100.220	% Recov	70.000	130.000				04/02/08
MSD	Vanadium	7440-62-2	189.48	94.740	% Recov	70.000	130.000				04/02/08
MSD	Zinc	7440-66-6	200.44	100.220	% Recov	70.000	130.000				04/02/08
SPK-RPD	Arsenic	7440-38-2	92.850		RPD			0.430	20.000		04/02/08
SPK-RPD	Barium	7440-39-3	83.245		RPD			0.778	20.000		04/02/08
SPK-RPD	Beryllium	7440-41-7	93.900		RPD			0.425	20.000		04/02/08
SPK-RPD	Cadmium	7440-43-9	96.750		RPD			0.618	20.000		04/02/08
SPK-RPD	Cobalt	7440-48-4	96.740		RPD			1.878	20.000		04/02/08
SPK-RPD	Chromium	7440-47-3	97.820		RPD			0.976	20.000		04/02/08
SPK-RPD	Mercury	7439-97-6	110.000		RPD			5.607	20.000		04/02/08
SPK-RPD	Manganese	7439-96-5	90.600		RPD			0.988	20.000		04/02/08
SPK-RPD	Lead	7439-92-1	96.890		RPD			0.933	20.000		04/02/08
SPK-RPD	Antimony	7440-36-0	96.600		RPD			1.565	20.000		04/02/08
SPK-RPD	Selenium	7782-49-2	95.900		RPD			0.313	20.000		04/02/08
SPK-RPD	Strontium	7440-24-6	97.615		RPD			0.613	20.000		04/02/08
SPK-RPD	Thallium	7440-28-0	90.260		RPD			1.395	20.000		04/02/08
SPK-RPD	Uranium	7440-61-1	100.220		RPD			0.600	20.000		04/02/08
SPK-RPD	Vanadium	7440-62-2	94.740		RPD			2.728	20.000		04/02/08
SPK-RPD	Zinc	7440-66-6	100.220		RPD			2.169	20.000		04/02/08

Lab ID: W08GR00781

BATCH QC ASSOCIATED WITH SAMPLE

MS	Barium	7440-39-3	192.09	96.045	% Recov	70.000	130.000				04/02/08
MS	Beryllium	7440-41-7	190.22	95.110	% Recov	70.000	130.000				04/02/08
MS	Cadmium	7440-43-9	198.09	99.045	% Recov	70.000	130.000				04/02/08
MS	Cobalt	7440-48-4	196.65	98.325	% Recov	70.000	130.000				04/02/08
MS	Chromium	7440-47-3	198.27	99.135	% Recov	70.000	130.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/25/08
Receive Date: 03/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Manganese	7439-96-5	201.2	100.600	% Recov	70.000	130.000				04/02/08
MS	Lead	7439-92-1	196.59	98.295	% Recov	70.000	130.000				04/02/08
MS	Antimony	7440-36-0	187.7	93.850	% Recov	70.000	130.000				04/02/08
MS	Selenium	7782-49-2	195.3	97.650	% Recov	70.000	130.000				04/02/08
MS	Thallium	7440-28-0	182.05	91.025	% Recov	70.000	130.000				04/02/08
MS	Vanadium	7440-62-2	188.01	94.005	% Recov	70.000	130.000				04/02/08
MS	Zinc	7440-66-6	200.76	100.380	% Recov	70.000	130.000				04/02/08
MSD	Barium	7440-39-3	192.09	96.045	% Recov	70.000	130.000				04/02/08
MSD	Beryllium	7440-41-7	185.02	92.510	% Recov	70.000	130.000				04/02/08
MSD	Cadmium	7440-43-9	195.69	97.845	% Recov	70.000	130.000				04/02/08
MSD	Cobalt	7440-48-4	189.75	94.875	% Recov	70.000	130.000				04/02/08
MSD	Chromium	7440-47-3	191.07	95.535	% Recov	70.000	130.000				04/02/08
MSD	Manganese	7439-96-5	195.8	97.900	% Recov	70.000	130.000				04/02/08
MSD	Lead	7439-92-1	192.19	96.095	% Recov	70.000	130.000				04/02/08
MSD	Antimony	7440-36-0	183.8	91.900	% Recov	70.000	130.000				04/02/08
MSD	Selenium	7782-49-2	190.8	95.400	% Recov	70.000	130.000				04/02/08
MSD	Thallium	7440-28-0	178.15	89.075	% Recov	70.000	130.000				04/02/08
MSD	Vanadium	7440-62-2	180.11	90.055	% Recov	70.000	130.000				04/02/08
MSD	Zinc	7440-66-6	192.26	96.130	% Recov	70.000	130.000				04/02/08
SPK-RPD	Barium	7440-39-3	96.045		RPD			0.000	20.000		04/02/08
SPK-RPD	Beryllium	7440-41-7	92.510		RPD			2.772	20.000		04/02/08
SPK-RPD	Cadmium	7440-43-9	97.845		RPD			1.219	20.000		04/02/08
SPK-RPD	Cobalt	7440-48-4	94.875		RPD			3.571	20.000		04/02/08
SPK-RPD	Chromium	7440-47-3	95.535		RPD			3.699	20.000		04/02/08
SPK-RPD	Manganese	7439-96-5	97.900		RPD			2.720	20.000		04/02/08
SPK-RPD	Lead	7439-92-1	96.095		RPD			2.263	20.000		04/02/08
SPK-RPD	Antimony	7440-36-0	91.900		RPD			2.100	20.000		04/02/08
SPK-RPD	Selenium	7782-49-2	95.400		RPD			2.331	20.000		04/02/08
SPK-RPD	Thallium	7440-28-0	89.075		RPD			2.165	20.000		04/02/08
SPK-RPD	Vanadium	7440-62-2	90.055		RPD			4.292	20.000		04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 03/25/08
Receive Date: 03/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Zinc	7440-66-6	96.130		RPD			4.325	20.000		04/02/08
BATCH QC											
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	04/02/08
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	04/02/08
BLANK	Beryllium	7440-41-7	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	04/02/08
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	04/02/08
BLANK	Mercury	7439-97-6	5e-2	0.050	ug/L						04/02/08
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	04/02/08
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	04/02/08
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	04/02/08
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	04/02/08
BLANK	Strontium	7440-24-6	<0.1	n/a	ug/L					U	04/02/08
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	04/02/08
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	04/02/08
BLANK	Vanadium	7440-62-2	<0.2	n/a	ug/L					U	04/02/08
BLANK	Zinc	7440-66-6	<0.8	n/a	ug/L					U	04/02/08
LCS	Arsenic	7440-38-2	128.4	97.273	% Recov	75.000	134.000				04/02/08
LCS	Barium	7440-39-3	303.4	95.110	% Recov	87.000	121.000				04/02/08
LCS	Beryllium	7440-41-7	86.73	96.905	% Recov	70.000	153.000				04/02/08
LCS	Cadmium	7440-43-9	68.96	103.699	% Recov	95.000	124.000				04/02/08
LCS	Cobalt	7440-48-4	74.92	102.490	% Recov	88.000	119.000				04/02/08
LCS	Chromium	7440-47-3	68	93.278	% Recov	77.000	125.000				04/02/08
LCS	Mercury	7439-97-6	8.61	103.986	% Recov	71.000	132.000				04/02/08
LCS	Manganese	7439-96-5	443.4	97.881	% Recov	83.000	118.000				04/02/08
LCS	Lead	7439-92-1	128.2	98.615	% Recov	92.000	123.000				04/02/08
LCS	Antimony	7440-36-0	122.8	136.142	% Recov	114.000	260.000				04/02/08
LCS	Selenium	7782-49-2	167.2	103.851	% Recov	52.000	157.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080591

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	Strontium	7440-24-6	51.54	94.743	% Recov	68.000	123.000				04/02/08
LCS	Thallium	7440-28-0	122.4	92.030	% Recov	92.000	123.000				04/02/08
LCS	Uranium	7440-61-1	373.4	93.350	% Recov	81.000	125.000				04/02/08
LCS	Vanadium	7440-62-2	76.61	92.301	% Recov	81.000	122.000				04/02/08
LCS	Zinc	7440-66-6	191.9	108.418	% Recov	85.000	130.000				04/02/08

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F08-070

Group #: WSCF20080591
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Mercury prep blank above the MDL. Mercury not not detected. No flag Organics: All results are corrected for moisture and reported on a dry weight basis. "J" flagged compounds are estimates because the concentration is too low for accurate quantitation. cgc ICP-AES: No lithium present in the LCS. Aluminum, iron, and sodium sample results exceed spiking level by a factor of 4 (spike recoveries are not valid). Check and high standards used to ensure aluminum and iron linearity because sample results are greater than the calibration standard. Silver, boron, and lithium have correction equation interferences that make them negative. Silver and boron have no detectable peaks. Lithium does and calcium is the interferent. A correlation was done to get estimated lithium values. Spike recoveries are 98.5% for MS and 98.9% for MSD. IC Cation - MS/MSD recoveries out of limits for sample W08GR00694; Data N-flagged. DTS

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: F08-070
Sample # W08GR00694
Client ID: BITN41

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Alcohols, Glycols - 8015 Prep											04/02/08
Alcohols, Glycols - 8015											
Diethyl ether	60-29-7	Organics	U	< 5.00e + 03	ug/kg			1.00	5.0e + 03		04/02/08
Ethylene glycol	107-21-1	Organics	U	< 5.00e + 03	ug/kg			1.00	5.0e + 03		04/02/08
NWTPH-D TPH Diesel Range (Wa) Prep											03/31/08
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.10e + 03	ug/kg			1.00	3.1e + 03		04/09/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.10e + 03	ug/kg			1.00	3.1e + 03		04/09/08
SW-846 8270C Semi-Vols Prep											04/01/08
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 340	ug/kg			1.00	3.4e + 02		04/08/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 260	ug/kg			1.00	2.6e + 02		04/08/08
Phenol	108-95-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Pyrene	129-00-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Acenaphthene	83-32-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 410	ug/kg			1.00	4.1e + 02		04/08/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
4-Nitroaniline	100-01-8	LA-523-456	U	< 280	ug/kg			1.00	2.8e + 02		04/08/08
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 230	ug/kg			1.00	2.3e + 02		04/08/08
4-Chloroaniline	106-47-8	LA-523-456	U	< 290	ug/kg			1.00	2.9e + 02		04/08/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria(inorg)

+ - Indicates more than six qualifier symbols

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E - Analyte is an estimate, has potentially larger errors(inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

Page 2

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: B1TN41

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachlorobenzene	118-74-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Anthracene	120-12-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		04/08/08
Dimethyl phthalate	131-11-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Dibenzofuran	132-64-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		04/08/08
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		04/08/08
Fluoranthene	206-44-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		04/08/08
Acenaphthylene	208-96-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Chrysene	218-01-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 230	ug/kg			1.00	2.3e+02		04/08/08
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 630	ug/kg			1.00	6.3e+02		04/08/08
Dibenz(a,h)anthracene	53-70-3	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		04/08/08
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: B1TN41

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Isophorone	78-59-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Diethylphthalate	84-66-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		04/08/08
Di-n-butylphthalate	84-74-2	LA-523-456		470	ug/kg			1.00	1.5e+02		04/08/08
Phenanthrene	85-01-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		04/08/08
Fluorene	86-73-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Carbazole	86-74-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Nitroaniline	88-74-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Nitrophenol	88-75-5	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		04/08/08
Naphthalene	91-20-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 230	ug/kg			1.00	2.3e+02		04/08/08
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Nitrobenzene	98-95-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
3-Nitroaniline	99-09-2	LA-523-456	U	< 190	ug/kg			1.00	1.9e+02		04/08/08
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachloroethane	67-72-1	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		04/08/08
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: B1TN41

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
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MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

Page 5

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2 TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Alcohols, Glycols - 8015 Prep											04/02/08
Alcohols, Glycols - 8015											
Diethyl ether	60-29-7	Organics	U	< 5.00e + 03	ug/kg			1.00	5.0e + 03		04/02/08
Ethylene glycol	107-21-1	Organics	U	< 5.00e + 03	ug/kg			1.00	5.0e + 03		04/02/08
NWTPH-D TPH Diesel Range (Wa) Prep											03/31/08
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.10e + 03	ug/kg			1.00	3.1e + 03		04/09/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.10e + 03	ug/kg			1.00	3.1e + 03		04/09/08
SW-846 8270C Semi-Vols Prep											04/01/08
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 340	ug/kg			1.00	3.4e + 02		04/08/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 260	ug/kg			1.00	2.6e + 02		04/08/08
Phenol	108-95-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Pyrene	129-00-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Acenaphthene	83-32-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 410	ug/kg			1.00	4.1e + 02		04/08/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
4-Nitroaniline	100-01-6	LA-523-456	U	< 290	ug/kg			1.00	2.9e + 02		04/08/08
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e + 02		04/08/08
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 230	ug/kg			1.00	2.3e + 02		04/08/08
4-Chloroaniline	106-47-8	LA-523-456	U	< 290	ug/kg			1.00	2.9e + 02		04/08/08

MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachlorobenzene	118-74-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Anthracene	120-12-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		04/08/08
Dimethyl phthalate	131-11-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Dibenzofuran	132-64-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		04/08/08
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		04/08/08
Fluoranthene	206-44-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		04/08/08
Acenaphthylene	208-96-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Chrysene	218-01-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 230	ug/kg			1.00	2.3e+02		04/08/08
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 640	ug/kg			1.00	6.4e+02		04/08/08
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		04/08/08
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
4-Chlorophenyl/phenyl ether	7005-72-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Isophorone	78-59-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Diethylphthalate	84-66-2	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		04/08/08
Di-n-butylphthalate	84-74-2	LA-523-456	J	360	ug/kg			1.00	1.5e+02		04/08/08
Phenanthrene	85-01-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		04/08/08
Fluorene	86-73-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Carbazole	86-74-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Nitroaniline	88-74-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Nitrophenol	88-75-5	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		04/08/08
Naphthalene	91-20-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		04/08/08
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 230	ug/kg			1.00	2.3e+02		04/08/08
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Nitrobenzene	98-95-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
3-Nitroaniline	99-09-2	LA-523-456	U	< 190	ug/kg			1.00	1.9e+02		04/08/08
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Hexachloroethane	67-72-1	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		04/08/08
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		04/08/08

MDL=Minimum Detection Limit

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D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(inorg)

N - Spike sample recovery is outside control limits.(inorg)

U - Analyzed for but not detected above limiting criteria.

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
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MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria(inorg)

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00696
Client ID: BITN43

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Benzene	71-43-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Toluene	108-88-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Styrene	100-42-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Acetone	67-64-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloroform	67-66-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromomethane	74-83-9	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloromethane	74-87-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloroethane	75-00-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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J - Analyte < lowest calibration but > = MDL.(org)

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

□ - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00696
Client ID: BITN43

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromoform	75-25-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
2-Butanone	78-93-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1-Butanol	71-36-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1e + 02		03/26/08
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00697
Client ID: BITN39

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Benzene	71-43-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Toluene	108-88-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Styrene	100-42-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Acetone	67-64-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloroform	67-66-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromomethane	74-83-9	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloromethane	74-87-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Chloroethane	75-00-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08

MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00697
Client ID: B1TN39 TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Organic
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromoform	75-25-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
2-Butanone	78-93-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
1-Butanol	71-36-3	LA-523-455	U	< 110	ug/kg			1.00	1.1e+02		03/26/08
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		03/26/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
 Matrix: SOLID
 Test: Alcohols, Glycols - 8015

Sample Date: 03/19/08
 Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W08GR00694

BATCH QC ASSOCIATED WITH SAMPLE

DUP	2-Bromoethanol	540-51-2	15100		RPD			15.291	25.000		04/02/08
DUP	Diethyl ether	60-29-7	<5000		RPD			n/a	25.000	U	04/02/08
DUP	Ethylene glycol	107-21-1	<5000		RPD			n/a	25.000	U	04/02/08
MS	2-Bromoethanol	540-51-2	13100	74.432	% Recov	70.000	125.000				04/02/08
MS	Diethyl ether	60-29-7	6700	94.366	% Recov	75.000	125.000				04/02/08
MS	Ethylene glycol	107-21-1	11000	100.000	% Recov	75.000	125.000				04/02/08
MSD	2-Bromoethanol	540-51-2	13500	76.705	% Recov	70.000	125.000				04/02/08
MSD	Diethyl ether	60-29-7	5700	80.282	% Recov	75.000	125.000				04/02/08
MSD	Ethylene glycol	107-21-1	12000	109.091	% Recov	75.000	125.000				04/02/08
SPK-RPD	2-Bromoethanol	540-51-2	76.705		RPD			3.008	20.000		04/02/08
SPK-RPD	Diethyl ether	60-29-7	80.282		RPD			16.128	20.000		04/02/08
SPK-RPD	Ethylene glycol	107-21-1	109.091		RPD			8.696	20.000		04/02/08

BATCH QC

BLANK	2-Bromoethanol	540-51-2	15000	85.227	% Recov	75.000	125.000				04/02/08
BLANK	Diethyl ether	60-29-7	<5000	n/a	ug/Kg	0.000	10.000			U	04/02/08
BLANK	Ethylene glycol	107-21-1	<5000	n/a	ug/Kg	0.000	5.000			U	04/02/08
LCS	2-Bromoethanol	540-51-2	NA	n/a	% Recov	70.000	130.000				04/02/08
LCS	Diethyl ether	60-29-7	6200	87.324	% Recov	70.000	130.000				04/02/08
LCS	Ethylene glycol	107-21-1	11000	100.000	% Recov	70.000	130.000				04/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,2,4-Trichlorobenzene	120-82-1	4189.8	102.000	% Recov	75.000	121.000				04/08/08
MS	1,4-Dichlorobenzene	106-46-7	4089.6	99.500	% Recov	68.000	121.000				04/08/08
MS	2,4-Dinitrotoluene	121-14-2	4169.1	101.000	% Recov	66.000	113.000				04/08/08
MS	2-Fluorophenol(Surr)	367-12-4	4001.2	97.400	% Recov	72.000	120.000				04/08/08
MS	Acenaphthene	83-32-9	4263.6	104.000	% Recov	69.000	125.000				04/08/08
MS	4-Chloro-3-methylphenol	59-50-7	6187.9	100.000	% Recov	68.000	116.000				04/08/08
MS	2-Chlorophenol	95-57-8	6101.7	99.000	% Recov	65.000	124.000				04/08/08
MS	N-Nitrosodi-n-dipropylamine	621-64-7	3919.6	95.400	% Recov	69.000	127.000				04/08/08
MS	2-Fluorobiphenyl(Surr)	321-60-8	3889.5	94.600	% Recov	66.000	122.000				04/08/08
MS	Phenol	108-95-2	5649.4	91.600	% Recov	71.000	122.000				04/08/08
MS	Nitrobenzene-d5(Surr)	4165-60-0	4081.3	99.300	% Recov	63.000	125.000				04/08/08
MS	4-Nitrophenol	100-02-7	5852.9	94.900	% Recov	55.000	113.000				04/08/08
MS	Pentachlorophenol	87-86-5	5471.8	88.800	% Recov	50.000	113.000				04/08/08
MS	Phenol-d5(Surr)	4165-62-2	3720.6	90.500	% Recov	66.000	124.000				04/08/08
MS	Pyrene	129-00-0	4349.1	106.000	% Recov	67.000	125.000				04/08/08
MS	2,4,6-Tribromophenol(Surr)	118-79-6	3965.8	96.500	% Recov	49.000	120.000				04/08/08
MS	Terphenyl-d14(Surr)	98904-43-9	4285.2	104.000	% Recov	58.000	128.000				04/08/08
MSD	1,2,4-Trichlorobenzene	120-82-1	4539.1	110.000	% Recov	75.000	121.000				04/08/08
MSD	1,4-Dichlorobenzene	106-46-7	4518.1	110.000	% Recov	68.000	121.000				04/08/08
MSD	2,4-Dinitrotoluene	121-14-2	4458.8	108.000	% Recov	66.000	113.000				04/08/08
MSD	2-Fluorophenol(Surr)	367-12-4	4438.2	108.000	% Recov	72.000	120.000				04/08/08
MSD	Acenaphthene	83-32-9	4530.8	110.000	% Recov	69.000	125.000				04/08/08
MSD	4-Chloro-3-methylphenol	59-50-7	6237.7	101.000	% Recov	68.000	116.000				04/08/08
MSD	2-Chlorophenol	95-57-8	6899.0	112.000	% Recov	65.000	124.000				04/08/08
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	4467.6	109.000	% Recov	69.000	127.000				04/08/08
MSD	2-Fluorobiphenyl(Surr)	321-60-8	4503.1	110.000	% Recov	66.000	122.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Phenol	108-95-2	6467.5	105.000	% Recov	71.000	122.000				04/08/08
MSD	Nitrobenzene-d5(Surr)	4165-80-0	4501.3	110.000	% Recov	63.000	125.000				04/08/08
MSD	4-Nitrophenol	100-02-7	6321.7	103.000	% Recov	55.000	113.000				04/08/08
MSD	Pentachlorophenol	87-86-5	6214.9	101.000	% Recov	50.000	113.000				04/08/08
MSD	Phenol-d5(Surr)	4165-62-2	4281.6	104.000	% Recov	66.000	124.000				04/08/08
MSD	Pyrene	129-00-0	4696.2	114.000	% Recov	67.000	125.000				04/08/08
MSD	2,4,6-Tribromophenol(Surr)	118-79-6	4357.4	106.000	% Recov	49.000	120.000				04/08/08
MSD	Terphenyl-d14(Surr)	98904-43-9	5199.0	126.000	% Recov	58.000	128.000				04/08/08
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	110.000		RPD			7.547	20.000		04/08/08
SPK-RPD	1,4-Dichlorobenzene	106-46-7	110.000		RPD			10.024	20.000		04/08/08
SPK-RPD	2,4-Dinitrotoluene	121-14-2	108.000		RPD			6.699	20.000		04/08/08
SPK-RPD	2-Fluorophenol(Surr)	367-12-4	108.000		RPD			10.321	20.000		04/08/08
SPK-RPD	Acenaphthene	83-32-9	110.000		RPD			5.607	20.000		04/08/08
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	101.000		RPD			0.995	20.000		04/08/08
SPK-RPD	2-Chlorophenol	95-57-8	112.000		RPD			12.322	20.000		04/08/08
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	109.000		RPD			13.307	20.000		04/08/08
SPK-RPD	2-Fluorobiphenyl(Surr)	321-60-8	110.000		RPD			15.054	20.000		04/08/08
SPK-RPD	Phenol	108-95-2	105.000		RPD			13.632	20.000		04/08/08
SPK-RPD	Nitrobenzene-d5(Surr)	4165-80-0	110.000		RPD			10.225	20.000		04/08/08
SPK-RPD	4-Nitrophenol	100-02-7	103.000		RPD			8.186	20.000		04/08/08
SPK-RPD	Pentachlorophenol	87-86-5	101.000		RPD			12.856	20.000		04/08/08
SPK-RPD	Phenol-d5(Surr)	4165-62-2	104.000		RPD			13.882	20.000		04/08/08
SPK-RPD	Pyrene	129-00-0	114.000		RPD			7.273	20.000		04/08/08
SPK-RPD	2,4,6-Tribromophenol(Surr)	118-79-6	106.000		RPD			9.383	20.000		04/08/08
SPK-RPD	Terphenyl-d14(Surr)	98904-43-9	126.000		RPD			19.130	20.000		04/08/08
SURR	2-Fluorophenol(Surr)	367-12-4	3893.2	90.300	% Recov	72.000	120.000				04/08/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	4702.0	115.000	% Recov	66.000	122.000				04/08/08
SURR	Nitrobenzene-d5(Surr)	4165-80-0	3648.8	89.300	% Recov	63.000	125.000				04/08/08
SURR	Phenol-d5(Surr)	4165-62-2	3566.6	87.200	% Recov	66.000	124.000				04/08/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3874.8	94.800	% Recov	49.000	120.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Terphenyl-d14(Surr)	98904-43-9	4230.6	103.000	% Recov	58.000	128.000				04/08/08
Lab ID: W08GR00695 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	4289.3	104.000	% Recov	72.000	120.000				04/08/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	4776.1	116.000	% Recov	66.000	122.000				04/08/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	4339.3	105.000	% Recov	63.000	125.000				04/08/08
SURR	Phenol-d5(Surr)	4165-62-2	4240.2	103.000	% Recov	66.000	124.000				04/08/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	4792.2	116.000	% Recov	49.000	120.000				04/08/08
SURR	Terphenyl-d14(Surr)	98904-43-9	4718.5	115.000	% Recov	58.000	128.000				04/08/08
BATCH QC											
BLANK	1,2-Dichlorobenzene	95-50-1	< 220	n/a	ug/Kg					U	04/08/08
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 150	n/a	ug/Kg					U	04/08/08
BLANK	1,3-Dichlorobenzene	541-73-1	< 270	n/a	ug/Kg					U	04/08/08
BLANK	1,4-Dichlorobenzene	106-46-7	< 250	n/a	ug/Kg					U	04/08/08
BLANK	2,4-Dichlorophenol	120-83-2	< 170	n/a	ug/Kg					U	04/08/08
BLANK	2,4-Dinitrotoluene	121-14-2	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2,4,5-Trichlorophenol	95-95-4	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2,4,6-Trichlorophenol	88-06-2	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2,4-Dimethylphenol	105-67-9	< 230	n/a	ug/Kg					U	04/08/08
BLANK	2,6-Dinitrotoluene	606-20-2	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Chloronaphthalene	91-58-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Fluorophenol(Surr)	367-12-4	3825.0	95.600	% Recov	72.000	120.000				04/08/08
BLANK	2-Methylnaphthalene	91-57-6	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Nitroaniline	88-74-4	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Nitrophenol	88-75-5	< 170	n/a	ug/Kg					U	04/08/08
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 150	n/a	ug/Kg					U	04/08/08
BLANK	3-Nitroaniline	99-09-2	< 190	n/a	ug/Kg					U	04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 330	n/a	ug/Kg					U	04/08/08
BLANK	4-Bromophenylphenyl ether	101-55-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Acenaphthene	83-32-9	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Acenaphthylene	208-96-8	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Anthracene	120-12-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Benzo(a)anthracene	56-55-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Benzo(b)fluoranthene	205-99-2	< 200	n/a	ug/Kg					U	04/08/08
BLANK	Benzo(ghi)perylene	191-24-2	< 320	n/a	ug/Kg					U	04/08/08
BLANK	Benzo(a)pyrene	50-32-8	< 230	n/a	ug/Kg					U	04/08/08
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Benzo(k)fluoranthene	207-08-9	< 200	n/a	ug/Kg					U	04/08/08
BLANK	Butylbenzylphthalate	85-68-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Carbazole	86-74-8	< 150	n/a	ug/Kg					U	04/08/08
BLANK	4-Chloroaniline	106-47-8	< 280	n/a	ug/Kg					U	04/08/08
BLANK	4-Chloro-3-methylphenol	59-50-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2-Chlorophenol	95-57-8	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Chrysene	218-01-9	< 150	n/a	ug/Kg					U	04/08/08
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 330	n/a	ug/Kg					U	04/08/08
BLANK	Dibenz[a,h]anthracene	53-70-3	< 330	n/a	ug/Kg					U	04/08/08
BLANK	Dibenzofuran	132-64-9	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Di-n-butylphthalate	84-74-2	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Diethylphthalate	84-66-2	< 210	n/a	ug/Kg					U	04/08/08
BLANK	Dimethyl phthalate	131-11-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2,4-Dinitrophenol	51-28-5	< 620	n/a	ug/Kg					U	04/08/08
BLANK	Di-n-octylphthalate	117-84-0	< 150	n/a	ug/Kg					U	04/08/08
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 150	n/a	ug/Kg					U	04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	2-Fluorobiphenyl(Surr)	321-60-8	4498.1	112.000	% Recov	66.000	122.000				04/08/08
BLANK	Fluorene	86-73-7	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Fluoranthene	206-44-0	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Hexachlorobenzene	118-74-1	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Hexachlorobutadiene	87-68-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Hexachlorocyclopentadiene	77-47-4	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Hexachloroethane	67-72-1	< 250	n/a	ug/Kg					U	04/08/08
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 330	n/a	ug/Kg					U	04/08/08
BLANK	Isophorone	78-59-1	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Phenol	108-95-2	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Naphthalene	91-20-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Nitrobenzene-d5(Surr)	4165-60-0	4048.4	101.000	% Recov	63.000	125.000				04/08/08
BLANK	Nitrobenzene	98-95-3	< 150	n/a	ug/Kg					U	04/08/08
BLANK	4-Nitrophenol	100-02-7	< 330	n/a	ug/Kg					U	04/08/08
BLANK	4-Nitroaniline	100-01-6	< 280	n/a	ug/Kg					U	04/08/08
BLANK	N-Nitrosodiphenylamine	86-30-6	< 170	n/a	ug/Kg					U	04/08/08
BLANK	Pentachlorophenol	87-86-5	< 400	n/a	ug/Kg					U	04/08/08
BLANK	Phenanthrene	85-01-8	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Phenol-d5(Surr)	4165-62-2	3798.1	95.000	% Recov	66.000	124.000				04/08/08
BLANK	Pyrene	129-00-0	< 150	n/a	ug/Kg					U	04/08/08
BLANK	Tributyl phosphate	126-73-8	< 150	n/a	ug/Kg					U	04/08/08
BLANK	2,4,6-Tribromophenol(Surr)	118-79-6	4215.0	105.000	% Recov	49.000	120.000				04/08/08
BLANK	Terphenyl-d14(Surr)	98904-43-9	4331.8	108.000	% Recov	58.000	128.000				04/08/08
LCS	1,2,4-Trichlorobenzene	120-82-1	3525.3	88.100	% Recov	76.000	118.000				04/08/08
LCS	1,4-Dichlorobenzene	106-46-7	3461.4	86.500	% Recov	68.000	121.000				04/08/08
LCS	2,4-Dinitrotoluene	121-14-2	3641.9	91.000	% Recov	68.000	112.000				04/08/08
LCS	2-Fluorophenol(Surr)	367-12-4	3311.7	82.800	% Recov	50.000	110.000				04/08/08
LCS	Acenaphthene	83-32-9	3669.7	91.700	% Recov	75.000	121.000				04/08/08
LCS	4-Chloro-3-methylphenol	59-50-7	4594.4	76.600	% Recov	68.000	117.000				04/08/08
LCS	2-Chlorophenol	95-57-8	5239.4	87.300	% Recov	84.000	114.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	3271.5	81.800	% Recov	76.000	119.000				04/08/08
LCS	2-Fluorobiphenyl(Surr)	321-60-8	3635.2	90.900	% Recov	58.000	109.000				04/08/08
LCS	Phenol	108-95-2	5074.1	84.600	% Recov	80.000	113.000				04/08/08
LCS	Nitrobenzene-d5(Surr)	4165-60-0	3338.3	83.500	% Recov	60.000	118.000				04/08/08
LCS	4-Nitrophenol	100-02-7	5095.3	84.900	% Recov	42.000	123.000				04/08/08
LCS	Pentachlorophenol	87-86-5	4675.5	77.900	% Recov	55.000	120.000				04/08/08
LCS	Phenol-d5(Surr)	4165-62-2	3334.3	83.400	% Recov	59.000	116.000				04/08/08
LCS	Pyrene	129-00-0	3709.5	92.700	% Recov	67.000	122.000				04/08/08
LCS	2,4,6-Tribromophenol(Surr)	118-79-6	3451.3	86.300	% Recov	60.000	120.000				04/08/08
LCS	Terphenyl-d14(Surr)	98904-43-9	3667.8	91.700	% Recov	60.000	120.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591

Matrix: SOLID

Test: NWTPH-D TPH Diesel Range (Wa)

Sample Date: 03/19/08

Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	ortho-Terphenyl	Surr	84-15-1	20341	99.000	% Recov	70.000	130.000			04/09/08
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	108870	106.000	% Recov	75.000	125.000				04/09/08
MSD	ortho-Terphenyl	Surr	84-15-1	20978	102.000	% Recov	70.000	130.000			04/09/08
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	120010	117.000	% Recov	75.000	125.000				04/09/08
SPK-RPD	ortho-Terphenyl	Surr	84-15-1	102.000	RPD			2.985	20.000		04/09/08
SPK-RPD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	117.000		RPD			9.865	20.000		04/09/08
SURR	ortho-Terphenyl	Surr	84-15-1	18751	91.100	% Recov	70.000	130.000			04/09/08
Lab ID: W08GR00695											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl	Surr	84-15-1	19144	92.700	% Recov	70.000	130.000			04/09/08
BATCH QC											
BLANK	Kerosene	TPHKEROSENE	< 3000	n/a	ug/Kg					U	04/09/08
BLANK	ortho-Terphenyl	Surr	84-15-1	19033	95.200	% Recov	70.000	130.000			04/09/08
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3000	n/a	ug/Kg					U	04/09/08
LCS	ortho-Terphenyl	Surr	84-15-1	22253	111.000	% Recov	70.000	130.000			04/09/08
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	119940	120.000	% Recov	80.000	120.000				04/09/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 03/06/08
Receive Date: 03/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00665 BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	28.970	106.000	% Recov	63.000	117.000				03/26/08
MS	Benzene	71-43-2	29.000	106.000	% Recov	75.000	129.000				03/26/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	56.560	103.000	% Recov	75.000	125.000				03/26/08
MS	Chlorobenzene	108-90-7	27.750	101.000	% Recov	79.000	119.000				03/26/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	63.030	115.000	% Recov	75.000	125.000				03/26/08
MS	Toluene-d8(Surr)	2037-26-5	57.390	105.000	% Recov	75.000	125.000				03/26/08
MS	Toluene	108-88-3	29.060	106.000	% Recov	76.000	120.000				03/26/08
MS	Trichloroethene	79-01-6	24.140	88.000	% Recov	73.000	123.000				03/26/08
MSD	1,1-Dichloroethene	75-35-4	25.560	109.000	% Recov	63.000	117.000				03/26/08
MSD	Benzene	71-43-2	25.720	109.000	% Recov	75.000	129.000				03/26/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	48.640	103.000	% Recov	75.000	125.000				03/26/08
MSD	Chlorobenzene	108-90-7	24.870	106.000	% Recov	79.000	119.000				03/26/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	53.010	113.000	% Recov	75.000	125.000				03/26/08
MSD	Toluene-d8(Surr)	2037-26-5	48.340	103.000	% Recov	75.000	125.000				03/26/08
MSD	Toluene	108-88-3	25.330	108.000	% Recov	76.000	120.000				03/26/08
MSD	Trichloroethene	79-01-6	21.210	90.200	% Recov	73.000	123.000				03/26/08
SPK-RPD	1,1-Dichloroethene	75-35-4	109.000		RPD			2.791	20.000		03/26/08
SPK-RPD	Benzene	71-43-2	109.000		RPD			2.791	20.000		03/26/08
SPK-RPD	4-Bromofluorobenzene(Surr)	460-00-4	103.000		RPD			0.000	20.000		03/26/08
SPK-RPD	Chlorobenzene	108-90-7	106.000		RPD			4.831	20.000		03/26/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	113.000		RPD			1.754	20.000		03/26/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	103.000		RPD			1.923	20.000		03/26/08
SPK-RPD	Toluene	108-88-3	108.000		RPD			1.869	20.000		03/26/08
SPK-RPD	Trichloroethene	79-01-6	90.200		RPD			2.469	20.000		03/26/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00696 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	53.480	102.000	% Recov	75.000	125.000				03/26/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	60.780	116.000	% Recov	75.000	125.000				03/26/08
SURR	Toluene-d8(Surr)	2037-26-5	55.360	105.000	% Recov	80.000	126.000				03/26/08
Lab ID: W08GR00697 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460 00-4	56.010	104.000	% Recov	75.000	125.000				03/26/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	61.640	114.000	% Recov	75.000	125.000				03/26/08
SURR	Toluene-d8(Surr)	2037-26-5	56.620	105.000	% Recov	80.000	126.000				03/26/08
BATCH QC											
BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1-Butanol	71-36-3	< 100	n/a	ug/Kg					U	03/26/08
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	52.480	105.000	% Recov	75.000	125.000				03/26/08
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/Kg					U	03/26/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	58.390	117.000	% Recov	75.000	125.000				03/26/08
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Toluene-d8(Surr)	2037-26-5	51.920	104.000	% Recov	80.000	126.000				03/26/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Trichloromonofluoromethane	75-69-4	< 1.0	n/a	ug/Kg	0.000	5.000			U	03/26/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/Kg					U	03/26/08
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/Kg					U	03/26/08
LCS	1,1-Dichloroethene	75-35-4	27.130	109.000	% Recov	75.000	125.000				03/26/08
LCS	Benzene	71-43-2	27.060	108.000	% Recov	75.000	125.000				03/26/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	51.430	103.000	% Recov	75.000	125.000				03/26/08
LCS	Chlorobenzene	108-90-7	26.100	104.000	% Recov	75.000	125.000				03/26/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	57.920	116.000	% Recov	75.000	125.000				03/26/08
LCS	Toluene-d8(Surr)	2037-26-5	51.700	103.000	% Recov	80.000	126.000				03/26/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080591
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Toluene	108-88-3	26.560	106.000	% Recov	75.000	125.000				03/26/08
LCS	Trichloroethene	79-01-6	22.210	88.800	% Recov	75.000	125.000				03/26/08

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: BITN41

TRENT
 WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Radiochemistry
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0220	pCi/g	+ -0.0279	pCi/g	1.00	0.044		04/08/08
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.025		04/08/08
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	-4.05e-03	pCi/g	+ -0.0178	pCi/g	1.00	0.030		03/27/08
Cobalt-60	10198-40-0	LA-508-481	U	3.08e-03	pCi/g	+ -6.48e-03	pCi/g	1.00	0.012		03/27/08
Cesium-137	10045-97-3	LA-508-481	U	1.30e-04	pCi/g	+ -1.30e-03	pCi/g	1.00	0.012		03/27/08
Europium-152	14683-23-9	LA-508-481	U	-0.0121	pCi/g	+ -0.0228	pCi/g	1.00	0.033		03/27/08
Europium-154	15585-10-1	LA-508-481	U	-0.0149	pCi/g	+ -0.0210	pCi/g	1.00	0.035		03/27/08
Europium-155	14391-16-3	LA-508-481	U	2.12e-03	pCi/g	+ -0.0212	pCi/g	1.00	0.049		03/27/08
Radium-226	13982-63-3	LA-508-481		0.488	pCi/g	+ -0.0797	pCi/g	1.00	0.022		03/27/08
Radium-228	15262-20-1	LA-508-481		0.623	pCi/g	+ -0.109	pCi/g	1.00	0.037		03/27/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	8.80e-03	pCi/g	+ -0.0216	pCi/g	1.00	0.041		05/02/08
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	9.20e-03	pCi/g	+ -0.0134	pCi/g	1.00	0.022		04/08/08
Pu-239/240 by AEA	PU-239/240	LA-508-471		5.50e-03	pCi/g	+ -6.49e-03	pCi/g	1.00	5.0e-03		04/08/08
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	4.9e-03		04/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	0.130	pCi/g	+ -0.966	pCi/g	1.00	0.38		04/07/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.7	Percent			1.00	0.0		04/07/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.170	pCi/g	+ -0.0561	pCi/g	1.00	0.016		04/02/08
Uranium-235	15117-96-1	LA-508-471		5.80e-03	pCi/g	+ -6.84e-03	pCi/g	1.00	5.2e-03		04/02/08
Uranium-238	U-238	LA-508-471		0.120	pCi/g	+ -0.0432	pCi/g	1.00	0.013		04/02/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(inorg)

N - Spike sample recovery is outside control limits.(inorg)

U - Analyzed for but not detected above limiting criteria.

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00694
Client ID: B1TN41

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Radiochemistry
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		4.10	pCi/g			1.00	0.033		04/02/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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

J - Analyte < lowest calibration but > = MDL.(org)

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

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(inorg)

N - Spike sample recovery is outside control limits.(inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Radiochemistry
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0350	pCi/g	+ -0.0273	pCi/g	1.00	0.038		04/08/08
Am-243 tracer by AEA	AM243	LA-508-471		3.80	pCi/g			1.00	0.026		04/08/08
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	3.34e-03	pCi/g	+ -0.0188	pCi/g	1.00	0.032		04/01/08
Cobalt-60	10198-40-0	LA-508-481	U	-2.72e-04	pCi/g	+ -2.72e-03	pCi/g	1.00	0.012		04/01/08
Cesium-137	10045-97-3	LA-508-481	U	-3.27e-03	pCi/g	+ -7.80e-03	pCi/g	1.00	0.011		04/01/08
Europium-152	14683-23-9	LA-508-481	U	0.0115	pCi/g	+ -0.0225	pCi/g	1.00	0.036		04/01/08
Europium-154	15585-10-1	LA-508-481	U	-0.0175	pCi/g	+ -0.0234	pCi/g	1.00	0.039		04/01/08
Europium-155	14391-16-3	LA-508-481	U	0.0278	pCi/g	+ -0.0338	pCi/g	1.00	0.050		04/01/08
Radium-226	13982-63-3	LA-508-481		0.496	pCi/g	+ -0.0829	pCi/g	1.00	0.022		04/01/08
Radium-228	15262-20-1	LA-508-481		0.562	pCi/g	+ -0.101	pCi/g	1.00	0.038		04/01/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	4.20e-03	pCi/g	+ -0.0420	pCi/g	1.00	0.045		05/02/08
Plutonium Isotopes by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-0.0230	pCi/g	+ -0.0313	pCi/g	1.00	0.059		04/08/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	8.80e-03	pCi/g	+ -9.59e-03	pCi/g	1.00	0.013		04/08/08
Pu-242 tracer by AEA	PU242	LA-508-471		6.00	pCi/g			1.00	0.013		04/08/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.280	pCi/g	+ -0.823	pCi/g	1.00	0.37		04/07/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.6	Percent			1.00	0.0		04/07/08
Uranium Isotopes by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.130	pCi/g	+ -0.0455	pCi/g	1.00	4.9e-03		04/02/08
Uranium-235	15117-96-1	LA-508-471	U	0.0120	pCi/g	+ -0.0142	pCi/g	1.00	0.021		04/02/08
Uranium-238	U-238	LA-508-471		0.150	pCi/g	+ -0.0510	pCi/g	1.00	0.013		04/02/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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

J - Analyte < lowest calibration but > = MDL.(org)

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

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(inorg)

N - Spike sample recovery is outside control limits.(inorg)

U - Analyzed for but not detected above limiting criteria.

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-070
Sample # W08GR00695
Client ID: B1TNP2

TRENT
WSCF

Matrix: SOIL

Group #: WSCF20080591
Department: Radiochemistry
Sampled: 03/19/08
Received: 03/20/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		4.00	pCi/g			1.00	0.030		04/02/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 J - Analyte < lowest calibration but > = MDL.(org)
 U - Analyzed for but not detected above limiting criteria(inorg)

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-070 :F08-070

Group #: WSCF20080591
Department: Radiochemistry

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	AC-228			0.56	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error			21	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	BI-212			0.41	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error			28	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	BI-214			0.55	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error			14	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	CS-134			0.026	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error			37	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	K-40			19	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error			13	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	PB-212			0.71	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error			10	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	PB-214			0.89	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error			21	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	SN-126			0.16	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error			24	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	TH-234			0.87	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error			24	%
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	TL-208			0.21	pCi/g
W08GR00694	B1TN41	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error			15	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	AC-228			0.57	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error			20	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	BI-212			0.44	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error			21	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	BI-214			0.56	pCi/g

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPE v 5.2 Report#: WSCF20080591

Report Date: 8-may-2008

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WSCF

TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-070 :F08-070

Group #: WSCF20080591
Department: Radiochemistry

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error			14	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	CS-134			0.022	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error			46	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	K-40			19	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error			13	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	PB-212			0.70	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error			10	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	PB-214			0.96	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error			23	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	SN-126			0.17	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error			24	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	TH-234			0.67	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error			31	%
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	TL-208			0.19	pCi/g
W08GR00695	B1TNP2	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error			16	%

RQ=Result Qualifier

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Groundwater Remediation Program

WGPPE v 5.2 Report #: WSCF20080591

Report Date: 8-may-2008

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 03/19/08
Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	U4.626e-3		RPD			n/a	20.000		04/23/08
DUP	Cesium-137	10045-97-3	U-5.321e-3		RPD			n/a	20.000		04/23/08
DUP	Europium-152	14683-23-9	U-2.229e-3		RPD			n/a	20.000		04/23/08
DUP	Europium-154	15585-10-1	U-4.027e-3		RPD			n/a	20.000		04/23/08
DUP	Europium-155	14391-16-3	U2.991e-2		RPD			n/a	20.000		04/23/08
DUP	Radium-226	13982-63-3	0.451		RPD			7.901	20.000		04/23/08
DUP	Radium-228	15262-20-1	0.601		RPD			3.547	20.000		04/23/08
DUP	Antimony-125	14234-35-6	U1.201e-2		RPD			n/a	20.000		04/23/08
BATCH QC											
BLANK	Cobalt-60	10198-40-0	U3.108e-4	n/a	pCi/g	-10.000	1000.000				03/31/08
BLANK	Cesium-137	10045-97-3	U-2.051e-3	n/a	pCi/g	-10.000	1000.000				03/31/08
BLANK	Europium-152	14683-23-9	U4.964e-3	n/a	pCi/g	-10.000	1000.000				03/31/08
BLANK	Europium-154	15585-10-1	U-5.561e-3	n/a	pCi/g	-10.000	1000.000				03/31/08
BLANK	Europium-155	14391-16-3	U9.188e-5	n/a	pCi/g	-10.000	1000.000				03/31/08
BLANK	Radium-226	13982-63-3	8.861e-2	0.089	pCi/g	-10.000	1000.000				03/31/08
BLANK	Radium-228	15262-20-1	2.391e-2	0.024	pCi/g	-10.000	1000.000				03/31/08
BLANK	Antimony-125	14234-35-6	U4.665e-4	n/a	pCi/g	-10.000	1000.000				03/31/08
LCS	Cobalt-60	10198-40-0	10440	105.030	% Recov	80.000	120.000				03/27/08
LCS	Cesium-137	10045-97-3	6263	103.692	% Recov	80.000	120.000				03/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591

Matrix: SOLID

Test: Americium by AEA

Sample Date: 03/06/08

Receive Date: 03/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00663 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	0.29		RPD			10.909	20.000		04/08/08
DUP	Am-243 tracer by AEA	AM243	3.862	95.500	% Recov	30.000	105.000				04/08/08
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.984	97.840	% Recov	30.000	105.000				04/08/08
Lab ID: W08GR00695 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.847	95.090	% Recov	30.000	105.000				04/08/08
BATCH QC											
BLANK	Americium-241	14596-10-2	U4.1e-3	n/a	pCi/g	-10.000	1000.000				04/08/08
BLANK	Am-243 tracer by AEA	AM243	4.024	75.730	% Recov	30.000	105.000				04/08/08
LCS	Americium-241	14596-10-2	11.3	95.359	% Recov	80.000	120.000				04/08/08
LCS	Am-243 tracer by AEA	AM243	11.17	86.910	% Recov	30.000	105.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591
Matrix: SOLID
Test: Neptunium by AEA

Sample Date: 03/06/08
Receive Date: 03/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00663 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	0.3		RPD			22.222	25.000		05/02/08
MS	Neptunium-237	13994-20-2	100.6	100.600	% Recov	75.000	125.000				05/02/08
MSD	Neptunium-237	13994-20-2	100.6	100.600	% Recov	75.000	125.000				05/02/08
SPK-RPD	Neptunium-237	13994-20-2	100.600		% RPD			0.000	20.000		05/02/08
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	100.4	100.400	% Recov	75.000	125.000				05/02/08
Lab ID: W08GR00695 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	99.2	99.200	% Recov	75.000	125.000				05/02/08
BATCH QC											
BLANK	Neptunium-237	13994-20-2	2e-2	0.020	pCi/G	-10.000	1000.000				05/02/08
LCS	Neptunium-237	13994-20-2	13.12	102.942	% Recov	80.000	120.000				05/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 03/06/08
Receive Date: 03/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00663 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	U2.1e-2		RPD			n/a	20.000		04/08/08
DUP	Pu-239/240 by AEA	PU-239/240	1		RPD			9.524	20.000		04/08/08
DUP	Pu-242 tracer by AEA	PU242	5.985	82.370	% Recov	30.000	105.000				04/08/08
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.174	95.470	% Recov	30.000	105.000				04/08/08
Lab ID: W08GR00695 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	5.962	89.740	% Recov	30.000	105.000				04/08/08
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U-9.8e-3	n/a	pCi/g	-10.000	1000.000				04/08/08
BLANK	Pu-239/240 by AEA	PU-239/240	U2e-3	n/a	pCi/g	-10.000	1000.000				04/08/08
BLANK	Pu-242 tracer by AEA	PU242	6.236	90.800	% Recov	30.000	105.000				04/08/08
LCS	Pu-239/240 by AEA	PU-239/240	12.62	98.248	% Recov	80.000	120.000				04/08/08
LCS	Pu-242 tracer by AEA	PU242	17.3	89.610	% Recov	30.000	105.000				04/08/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591

Matrix: SOLID

Test: Strontium 89/90

Sample Date: 03/19/08

Receive Date: 03/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00694											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	96.2	96.200	% Recov	30.000	105.000				04/07/08
DUP	Strontium-89/90	SR-RAD	U1.5E-02		RPD			n/a	20.000		04/07/08
SURR	Sr-85 Tracer by Beta Counting	SR85	99.7	99.700	% Recov	30.000	105.000				04/07/08
Lab ID: W08GR00695											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	99.6	99.600	% Recov	30.000	105.000				04/07/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	132	132.000	% Recov	30.000	105.000				04/07/08
BLANK	Strontium-89/90	10098-97-2	U-2.8E-01	n/a	pCi/g	-10.000	300.000				04/07/08
LCS	Sr-85 Tracer by Beta Counting	SR85	91.5	91.500	% Recov	30.000	105.000				04/07/08
LCS	Strontium-89/90	10098-97-2	74.5	106.239	% Recov	80.000	120.000				04/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080591
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 03/06/08
Receive Date: 03/19/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00663 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	3.975	91.030	% Recov	30.000	105.000				04/02/08
DUP	Uranium-233/234	U-233/234	0.52		RPD			7.407	20.000		04/02/08
DUP	Uranium-235	15117-96-1	4.1e-2		RPD			7.595	20.000		04/02/08
DUP	Uranium-238	U-238	0.46		RPD			12.245	20.000		04/02/08
Lab ID: W08GR00694 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.101	97.750	% Recov	30.000	105.000				04/02/08
Lab ID: W08GR00695 BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	3.96	88.630	% Recov	30.000	105.000				04/02/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	4.142	82.650	% Recov	30.000	105.000				04/02/08
BLANK	Uranium-233/234	13966-29-5	1.6e-2	0.016	pCi/g	-10.000	1000.000				04/02/08
BLANK	Uranium-235	15117-96-1	6.5e-3	0.006	pCi/g	-10.000	1000.000				04/02/08
BLANK	Uranium-238	24678-82-8	U2e-3	n/a	pCi/g	-10.000	1000.000				04/02/08
LCS	U-232 tracer by AEA	U232	11.5	72.160	% Recov	30.000	105.000				04/02/08
LCS	Uranium-233/234	13966-29-5	N/A	n/a	% Recov	75.000	125.000				04/02/08
LCS	Uranium-235	15117-96-1	N/A	n/a	% Recov	75.000	125.000				04/02/08
LCS	Uranium-238	24678-82-8	19	100.237	% Recov	80.000	120.000				04/02/08

M4W41-SLF-08-494

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 13 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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123163/ES20
Group#: 20080591
Project#: F08-070
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 03/20/08. 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
W08GR00694	B1TN41	TRENT @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @SR89_90 @SVOC @TPHD-WA CN-02 NH4-IC PERSOLID	Solid, or handle as if solid	03/19/08
W08GR00695	B1TNP2	TRENT @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @GPP6010 @IC-30 @SR89_90 @SVOC @TPHD-WA CN-02 NH4-IC PERSOLID	Solid, or handle as if solid	03/19/08
W08GR00696	B1TN43	TRENT @VOA-GPP	Solid, or handle as if solid	03/19/08
W08GR00697	B1TN39	TRENT @VOA-GPP	Solid, or handle as if solid	03/19/08
W08GR00698	B1TNP1	TRENT	Solid, or handle as if solid	03/19/08
W08GR00699	B1TN40	TRENT	Solid, or handle as if solid	03/19/08

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@8015GPP	Alcohols, Glycols - 8015
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vols
@TPHD-WA	NWTPH-D TPH Diesel Range (Wa)
@VOA-GPP	VOA Ground Water Protection

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP

PO#: 123163/ES20

Group#: 20080591

Project#: F08-070

Proj Mgr: Steve Trent E6-35

Phone: 373-5869

Test Acronym Description

Test Acronym	Description
--------------	-------------

CN-02	Cyanide by Midi/Spectrophotom
-------	-------------------------------

NH4-IC	Ammonia (N) by IC
--------	-------------------

PERSOLID	Percent Solids
----------	----------------

COLLECTOR
NCO SAMPLER

5/5
COSTA RICA
DOCUMENT

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA
TURNAROUND
45 Days / 45
Days

SAMPLING LOCATION

C5857, 1-030

ICE CHEST NO.

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.

F08-070

AIR QUALITY ☐

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

FIELD LOGBOOK NO.

HNF-N 488.1 8.4

ACTUAL SAMPLE DEPTH

79.9-82.1

COA

123163E520

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

POSSIBLE SAMPLE HAZARDS/ REMARKS

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

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION

None

Cool~4C

Cool~4C

Cool~4C

Cool~4C

None

TYPE OF CONTAINER

G/P

G

aG

G

G/P

'Square
'Bottle - Poly

NO. OF CONTAINER(S)

1

1

1

1

1

1

VOLUME

250mL

250mL

250mL

125g

500mL

500mL

SAMPLE ANALYSIS

SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (2) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (3) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (4) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (5) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (6) IN
SPECIAL
INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

Radioactive Tie To B1TN38

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TN41

SOIL

3/9/08

1010

0086200694

20080591

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

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DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY
SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

ICE!

24075 24075 24075 27259 27361 2/1

COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-6869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 days
SAMPLING LOCATION C5857, I-030	PROJECT DESIGNATION 200-TW-1 OU Characterization for Well 299-E33-342 - Soil	SAF NO. F08-070	AIR QUALITY ☐		
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.

(1)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Manganese, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium, Strontium, Thallium, Uranium} ICP Metals - 6010B (TAL) {Aluminum, Copper, Iron, Nickel, Silver, Sodium} ICP Metals - 6010B (Add-On) {Boron, Lithium} 200.8_HG - ICPMS; Cations (IC) - 300.7 {Nitrogen in ammonium}

~~(2)~~Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol}

~~(3)~~Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Tributyl phosphate}

~~(4)~~TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - kerosene range}

(5)Cyanide (Total) - 335.2; IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}

(6)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Antimony-125, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Americium-241;

COLLECTOR
NCO SAMPLER

SAMPLING LOCATION

C5857, I-030

ICE CHEST NO.

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

A=Air
DL=Drum
L=Liquid
DS=Drum
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
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

Radioactive Tie To B1TN38

COMPANY CONTACT

TRENT, STEVE

TELEPHONE NO.

373-5869

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

FIELD LOGBOOK NO.

HNF-N 488-1/4

ACTUAL SAMPLE DEPTH

74.5' - 82.1'

OFFSITE PROPERTY NO.

N/A

PROJECT COORDINATOR

WIDRIG, DL

PRICE CODE

8N

AIR QUALITY

☐

DATA
TURNAROUND

45 Days / 45
days

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

COA

123163ES20

BILL OF LADING/AIR BILL NO.

N/A

PRESERVATION

Cool -4C

Cool <-7C and
>-20C

TYPE OF CONTAINER

aGs*

aGs*

NO. OF CONTAINER(S)

3

5

VOLUME

40mL

40mL

SAMPLE ANALYSIS

SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (2) IN
SPECIAL
INSTRUCTIONS

SAMPLE NO.

B1TN39

MATRIX*

SOIL

SAMPLE DATE

3/19/08

SAMPLE TIME

1610

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM
Kevin Patterson

DATE/TIME

3/19/08 1300

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN

DATE/TIME

MOORE, Renda

3/19/08 1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

MOORE, Renda

3-20-08

RECEIVED BY/STORED IN

DATE/TIME

DE PARCHEN

3-20-08

RELINQUISHED BY/REMOVED FROM

DATE/TIME

MOORE, Renda

3-20-08

RECEIVED BY/STORED IN

DATE/TIME

MOORE, Renda

3/20/08 1425

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY
SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

ICED

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-070-002

PAGE 2 OF 2

COLLECTOR
NCO SAMPLER

(Kevin Patterson)
Fluor Hanford

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA
TURNAROUND
45 Days / 45
Days

SAMPLING LOCATION

C5857, I-030

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.
F08-070

AIR QUALITY ☐

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

123163ES20

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

SPECIAL INSTRUCTIONS

- ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
- ** Analytical batch QC must be run on a sample associated with this SAF.
- ** All VOA samples will be collected using EPA Method 5035A.
- ** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
- ** The laboratory is to use one of the low level VOA bottles for moisture content determination.
- ** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
- (1)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene}
- (2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene}

COLLECTOR
NCO SAMPLER

Kevin Patterson

SAMPLING LOCATION
C5857, I-030

ICE CHEST NO.

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

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

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

Radioactive Tie To B1TN38

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA
TURNAROUND
45 Days / 45
Days

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.
F08-070

AIR QUALITY ☐

FIELD LOGBOOK NO.

HNF-N-488-1 / 4

ACTUAL SAMPLE DEPTH

79.9' - 82.1'

COA

123163ES20

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

PRESERVATION

Cool~4C

TYPE OF CONTAINER

aGs*

NO. OF CONTAINER(S)

1

VOLUME

40mL

SAMPLE ANALYSIS

SEE ITEM (I) IN
SPECIAL
INSTRUCTIONS

SAMPLE NO.

MATRIX*

SAMPLE DATE SAMPLE TIME

B1TN40

SOIL

3/19/08 1010

ICED

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

7039150

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM
Kevin Patterson

DATE/TIME
3/19/08 1300

RECEIVED BY/STORED IN

NO 745 REF #1

DATE/TIME

1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

NO 745 REF #1

DATE/TIME

1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

NO 745 REF #1

DATE/TIME

1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY
SECTION

RECEIVED BY

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

TITLE

DATE/TIME

DISPOSED BY

DATE/TIME

COLLECTOR

NCO SAMPLER

Kevin Patterson
Fluor Hanford

SAMPLING LOCATION

C5857, I-030-D

ICE CHEST NO.

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

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

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

Radioactive Tie To B1TN38

COMPANY CONTACT

TRENT, STEVE

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

WIDRIG, DL

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.

F08-070

FIELD LOGBOOK NO.

HNF N. 488-1 RY

ACTUAL SAMPLE DEPTH

39.9'-82.1'

COA

123163ES20

PRICE CODE

8N

AIR QUALITY

☐

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

DATA TURNAROUND

45 Days / 45 Days

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

PRESERVATION

None Cool~4C Cool~4C Cool~4C Cool~4C None

TYPE OF CONTAINER

G/P G aG G G/P Square Bottle - Poly

NO. OF CONTAINER(S)

1 1 1 1 1 1

VOLUME

250mL 250mL 250mL 125g 500mL 500mL

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS SEE ITEM (3) IN SPECIAL INSTRUCTIONS SEE ITEM (4) IN SPECIAL INSTRUCTIONS SEE ITEM (5) IN SPECIAL INSTRUCTIONS SEE ITEM (6) IN SPECIAL INSTRUCTIONS

SAMPLE NO.

B1TNP2

MATRIX*

SOIL

SAMPLE DATE

3/19/08 10:00

SAMPLE TIME

✓ ✓ ✓ ✓ ✓ ✓

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

Kevin Patterson

DATE/TIME

3/19/08 10:00

RECEIVED BY/STORED IN

120745 REF #1

DATE/TIME

3/19/08 10:00

RELINQUISHED BY/REMOVED FROM

Fluor Hanford

DATE/TIME

3-20-08

RECEIVED BY/STORED IN

Fluor Hanford

DATE/TIME

3-20-08

RELINQUISHED BY/REMOVED FROM

Fluor Hanford

DATE/TIME

3-20-08

RECEIVED BY/STORED IN

J. E. PARCHEN

DATE/TIME

3/20/08

RELINQUISHED BY/REMOVED FROM

J. E. PARCHEN

DATE/TIME

3-20-08

RECEIVED BY/STORED IN

Fluor Hanford

DATE/TIME

3/20/08

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

ICED

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-070-011

PAGE 2 OF 2

COLLECTOR
NCO SAMPLER

Kevin Patterson
Fluor Hanford

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA
TURNAROUND

SAMPLING LOCATION

C5857, I-030-D

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.
F08-070

AIR QUALITY ☐

45 Days / 45
Days

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

METHOD OF SHIPMENT

123163ES20

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.

(1)ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Manganese, Vanadium, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium, Strontium, Thallium, Uranium} ICP Metals - 6010B (TAL) {Aluminum, Copper, Iron, Nickel, Silver, Sodium} ICP Metals - 6010B (Add-On) {Boron, Lithium} 200.8_HG - ICPMS; Cations (IC) - 300.7 {Nitrogen in ammonium}

(2)Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol}

(3)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Tributyl phosphate}

(4)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - kerosene range}

(5)Cyanide (Total) - 335.2; IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}

(6)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Antimony-125, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Americium-241;

78 of 84

COLLECTOR

NCO SAMPLER

Kevin Patterson

COMPANY CONTACT

TRENT, STEVE

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

WIDRIG, DL

PRICE CODE

8N

DATA
TURNAROUND

45 Days / 45
Days

SAMPLING LOCATION

C5857, I-030-D

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.

F08-070

AIR QUALITY

☐

ICE CHEST NO.

FIELD LOGBOOK NO.

HNF-N-488-1 Pg

ACTUAL SAMPLE DEPTH

79.9' - 82.1'

COA

123163E520

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=Vegetation
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)

PRESERVATION

Cool ~4C

Cool <-7C and
>-20C

TYPE OF CONTAINER

aGs*

aGs*

NO. OF CONTAINER(S)

3

5

VOLUME

40mL

40mL

SAMPLE ANALYSIS

SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

SEE ITEM (2) IN
SPECIAL
INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

Radioactive Tie To B1TN38

SAMPLE NO.

B1TN43

MATRIX*

SOIL

SAMPLE DATE

5/19/08

SAMPLE TIME

1010

✓ ✓

696

7039150 7039150

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

Kevin Patterson

DATE/TIME

5/19/08 1700

RECEIVED BY/STORED IN

MIDTAS REF# 3/15/08

DATE/TIME

1700

RELINQUISHED BY/REMOVED FROM

MO 745 Ref #1

DATE/TIME

3-20-08

RECEIVED BY/STORED IN

Fluor Hartford

DATE/TIME

3-20-08

RELINQUISHED BY/REMOVED FROM

J. E. PARCHEN

DATE/TIME

3-20-08

RECEIVED BY/STORED IN

T A Frazier

DATE/TIME

3-20-08

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY
SECTION

RECEIVED BY

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

TITLE

DATE/TIME

DISPOSED BY

DATE/TIME

ICED

COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C5857, I-030-D	PROJECT DESIGNATION 200-TW-1 OU Characterization for Well 299-E33-342 - Soil	SAF NO. F08-070	AIR QUALITY ☐	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

- ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
- ** Analytical batch QC must be run on a sample associated with this SAF.
- ** All VOA samples will be collected using EPA Method 5035A.
- ** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
- ** The laboratory is to use one of the low level VOA bottles for moisture content determination.
- ** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
- (1)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene}
- (2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene}

COLLECTOR
NCO SAMPLER Kevin Patterson

SAMPLING LOCATION

C5857, I-030-D

ICE CHEST NO.

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

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

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

Radioactive Tie To B1TN38

COMPANY CONTACT

TRENT, STEVE

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

WIDRIG, DL

PRICE CODE

8N

DATA
TURNAROUND

45 Days / 45
Days

PROJECT DESIGNATION

200-TW-1 OU Characterization for Well 299-E33-342 - Soil

SAF NO.

F08-070

AIR QUALITY

☐

FIELD LOGBOOK NO.

HNF-N-488.1 P4

ACTUAL SAMPLE DEPTH

79.9' - 82.1'

COA

123163ES20

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

PRESERVATION

Cool~4C

TYPE OF CONTAINER

aGs*

NO. OF CONTAINER(S)

1

VOLUME

40mL

SAMPLE ANALYSIS

SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

SAMPLE NO.

B1TNP1

MATRIX*

SOIL

SAMPLE DATE

3/17/08

SAMPLE TIME

1010

✓

ICED

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

Kevin Patterson

DATE/TIME

3/17/08 1100

RECEIVED BY/STORED IN

WORKS REF #1

DATE/TIME

3/17/08

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.

** All VOA samples will be collected using EPA Method 5035A.

(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene}

RELINQUISHED BY/REMOVED FROM

MO 745 RPT #1

DATE/TIME

3-20-08 1300

RECEIVED BY/STORED IN

FLUOR HANFORD

DATE/TIME

3-20-08

RELINQUISHED BY/REMOVED FROM

FLUOR HANFORD

DATE/TIME

3-20-08 1400

RECEIVED BY/STORED IN

DE PARCHEN

DATE/TIME

3/20/08 1400

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY
SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

M4W41-SLF-08-494

ATTACHMENT 5

SAMPLE RECORD SHEET

Consisting of 3 pages
Including cover page

SAMPLE RECORD SHEET

Sample Number	Sample Suffix ¹	Empty Weight ² (g)	Weight with Sample ³ (g)	Weight of Sample ⁴ (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BITN43	K	31.0	35.7	4.7	---	---	---
BITN43	L	30.8	35.7	4.9	---	---	---
BITN43	M	30.7	35.4	4.7	---	---	---
BITN43	N	31.2	36.0	4.8	---	---	---
BITN43	P	30.6	35.4	4.8	---	---	---
BITN43		29.5	---	---	4	5	33.5
BITN43	W	29.8	34.6	4.8	4	5	38.6
BITN43	X	29.4	34.3	4.9	3.9	5	38.2
BITN43	Y	29.5	34.1	4.6	4	5	38.1

¹Sample suffix of L, K, M, N and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C.

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

²Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.

³Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

⁴Sample weight is the vial with sample minus the vial empty

SAMPLE RECORD SHEET

Sample Number	Sample Suffix ¹	Empty Weight ² (g)	Weight with Sample ³ (g)	Weight of Sample ⁴ (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BITN39	K	30.4	35.4	5.0	---	---	---
BITN39	L	30.8	35.6	4.8	---	---	---
BITN39	M	30.4	35.4	5.0	---	---	---
BITN39	N	30.8	35.8	5.0	---	---	---
BITN39	P	30.5	35.4	4.8	---	---	---
BITN40		29.6	---	---	4	5.0	33.6
BITN39	W	29.4	34.1	4.7	4.1	5.0	38.2
BITN39	X	29.3	33.9	4.6	4.1	5.0	38.0
BITN39	Y	29.8	34.2	4.4	3.9	4.5	38.1

¹Sample suffix of L, K, M, N and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C.

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

²Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.

³Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

⁴Sample weight is the vial with sample minus the vial empty