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Memorandum

M4W41-SLF-07-611

To: H. Hampt E6-35 Date: September 10, 2007

From: S. L. Fitzgerald, Manager
WSCF Analytical Lab *Marlene Hampt for SLF*

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20071520 – SAF NUMBER F06-027

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 attachments for sample delivery group WSCF20071520:

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

SLF/grf

Attachments 4

M4W41-SLF-07-611

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20071520
Data Deliverable Date: 06-sep-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F06-027	B1PCP9	W07GR02256	WATER
	B1PCR1	W07GR02257	WATER
	B1PCR2	W07GR02258	WATER
	B1PCR3	W07GR02259	WATER
	B1PCR5	W07GR02260	WATER
	B1PCR7	W07GR02261	WATER
	B1PCR8	W07GR02262	WATER
	B1PCR9	W07GR02263	WATER
	B1PCT0	W07GR02264	WATER
	B1PCT1	W07GR02265	WATER
	B1PCT2	W07GR02266	WATER
	B1PCT3	W07GR02267	WATER
	B1PCT4	W07GR02268	WATER
	B1PCT5	W07GR02269	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Sample Delivery Group	WSCF20071520
Sample Matrix	Water
Data Deliverable	Summary Report

Introduction

Fourteen groundwater samples were received at the WSCF Laboratory on August 23, 2007. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

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

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

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 12 through 13, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were not met. See comment below. 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 42 through 46 for QC details. Analytical Note(s):

- Samples were collected on August 23, delivered to the WSCF Laboratory on August 23 and analyzed on August 28, 2007.
- Sample results were D flagged (dilution).
- 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.

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 47 through 50 for QC details. Analytical Note(s):

- Sample results were D flagged (dilution).
- Except for sample# B1PCR8, pH of samples ranged from 4 to 7. The pH of sample# B1PCR8 was < 2.
- Calcium – Matrix Spike Duplicate recovery exceeded established laboratory limits. No flags issued.
- Barium, Iron, Magnesium, Molybdenum, Silver, Vanadium and Zinc contamination detected in the Blank was evaluated and the affected sample results were C flagged.
- Sodium results are beyond effective “Spike” range resulting in results marked NA. Due to high values, high standards were used to extend the instrument calibration range.

All other QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF’s radiochemical methods. A Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 67 through 69 for QC details. Analytical Note(s):

- Strontium-89/90 – Duplicate (B1PCP9) Relative Percent Difference (RPD) slightly exceeded established laboratory limits. No flags issued.
- Strontium-85 –Tracer (B1PCR5) recovery exceeded established laboratory limits. No flags issued.

All other QC controls are within the established limits.

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



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Pauline D. Mix
WSCF Client Services

Abbreviations

Hg – mercury

IC – ion chromatography

ICP – inductively coupled plasma

ICP/AES – ICP/atomic emission spectroscopy

ICP/MS – ICP/mass spectrometry

Total U – total uranium

AT/TB – total alpha/total beta

AEA – Alpha Energy Analysis

WTPH-G – Total Hydrocarbons-Gasoline

Am – americium

Cm – curium

Pu – plutonium

Np – neptunium

GEA – gamma energy analysis

H3 – Tritium

Sr – Strontium 89, 90

WTPH-D – Total Hydrocarbons-Diesel

TSS – Total Suspended Solids

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ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 65 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for
Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: Norman Stauffer Markus Stauffer 9/10/07
Client Services: Edy P.O. Mix 9/7/2007

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#: WSCF20071520
Report Date: 6-sep-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20071520

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
33109	2	33515	37575	BLANK		Anions by Ion Chromatography
33109	11	33515	37575	BLANK		Anions by Ion Chromatography
33109	3	33515	37575	LCS		Anions by Ion Chromatography
33109	5	33515	37575	DUP	W07GR02263	Anions by Ion Chromatography
33109	6	33515	37575	MS	W07GR02263	Anions by Ion Chromatography
33109	7	33515	37575	MSD	W07GR02263	Anions by Ion Chromatography
33109	4	33515	37575	SAMPLE	W07GR02263	Anions by Ion Chromatography
33109	7	33515	37575	SPK-RPD	W07GR02263	Anions by Ion Chromatography
33109	8	33515	37575	SAMPLE	W07GR02267	Anions by Ion Chromatography
33109	9	33515	37575	SAMPLE	W07GR02268	Anions by Ion Chromatography
33109	10	33515	37575	SAMPLE	W07GR02269	Anions by Ion Chromatography
33113	2	33518	37577	BLANK		Anions by Ion Chromatography
33113	16	33518	37577	BLANK		Anions by Ion Chromatography
33113	23	33518	37577	BLANK		Anions by Ion Chromatography
33113	3	33518	37577	LCS		Anions by Ion Chromatography
33113	17	33518	37577	LCS		Anions by Ion Chromatography
33113	4	33518	37577	SAMPLE	W07GR02256	Anions by Ion Chromatography
33113	8	33518	37577	SAMPLE	W07GR02257	Anions by Ion Chromatography
33113	9	33518	37577	SAMPLE	W07GR02258	Anions by Ion Chromatography
33113	10	33518	37577	SAMPLE	W07GR02259	Anions by Ion Chromatography
33113	11	33518	37577	SAMPLE	W07GR02260	Anions by Ion Chromatography
33113	12	33518	37577	SAMPLE	W07GR02261	Anions by Ion Chromatography
33113	5	33518	37577	DUP	W07GR02262	Anions by Ion Chromatography
33113	6	33518	37577	MS	W07GR02262	Anions by Ion Chromatography
33113	7	33518	37577	MSD	W07GR02262	Anions by Ion Chromatography
33113	13	33518	37577	SAMPLE	W07GR02262	Anions by Ion Chromatography
33113	7	33518	37577	SPK-RPD	W07GR02262	Anions by Ion Chromatography
33113	14	33518	37577	SAMPLE	W07GR02264	Anions by Ion Chromatography
33113	15	33518	37577	SAMPLE	W07GR02265	Anions by Ion Chromatography
33113	18	33518	37577	SAMPLE	W07GR02266	Anions by Ion Chromatography
33113	22	33518	37577	DUP	W07GR02270	Anions by Ion Chromatography
33113	21	33518	37577	MS	W07GR02270	Anions by Ion Chromatography
33113	19	33518	37577	MSD	W07GR02270	Anions by Ion Chromatography
33113	21	33518	37577	SPK-RPD	W07GR02270	Anions by Ion Chromatography
33168	2	33573	37661	BLANK		Anions by Ion Chromatography
33168	9	33573	37661	BLANK		Anions by Ion Chromatography
33168	3	33573	37661	LCS		Anions by Ion Chromatography
33168	5	33573	37661	DUP	W07GR02266	Anions by Ion Chromatography
33168	6	33573	37661	MS	W07GR02266	Anions by Ion Chromatography
33168	7	33573	37661	MSD	W07GR02266	Anions by Ion Chromatography
33113	18	33573	37661	SAMPLE	W07GR02266	Anions by Ion Chromatography
33168	7	33573	37661	SPK-RPD	W07GR02266	Anions by Ion Chromatography
33109	9	33573	37661	SAMPLE	W07GR02268	Anions by Ion Chromatography
33169	1	33574	37694	BLANK		ICP Metals Analysis, Grd H20 P
33169	2	33574	37694	LCS		ICP Metals Analysis, Grd H20 P
33169	4	33574	37694	MS	W07GR02256	ICP Metals Analysis, Grd H20 P
33169	5	33574	37694	MSD	W07GR02256	ICP Metals Analysis, Grd H20 P
33169	3	33574	37694	SAMPLE	W07GR02256	ICP Metals Analysis, Grd H20 P
33169	5	33574	37694	SPK-RPD	W07GR02256	ICP Metals Analysis, Grd H20 P

33169	6	33574	37694	SAMPLE	W07GR02257	ICP Metals Analysis, Grd H20 P
33169	7	33574	37694	SAMPLE	W07GR02258	ICP Metals Analysis, Grd H20 P
33169	8	33574	37694	SAMPLE	W07GR02259	ICP Metals Analysis, Grd H20 P
33169	9	33574	37694	SAMPLE	W07GR02260	ICP Metals Analysis, Grd H20 P
33169	10	33574	37694	SAMPLE	W07GR02261	ICP Metals Analysis, Grd H20 P
33169	11	33574	37694	SAMPLE	W07GR02262	ICP Metals Analysis, Grd H20 P
33169	12	33574	37694	SAMPLE	W07GR02263	ICP Metals Analysis, Grd H20 P
33169	13	33574	37694	SAMPLE	W07GR02264	ICP Metals Analysis, Grd H20 P
33169	14	33574	37694	SAMPLE	W07GR02265	ICP Metals Analysis, Grd H20 P
33169	15	33574	37694	SAMPLE	W07GR02266	ICP Metals Analysis, Grd H20 P
33169	16	33574	37694	SAMPLE	W07GR02267	ICP Metals Analysis, Grd H20 P
33169	17	33574	37694	SAMPLE	W07GR02268	ICP Metals Analysis, Grd H20 P
33169	18	33574	37694	SAMPLE	W07GR02269	ICP Metals Analysis, Grd H20 P

W13q Worklist/Batch/QC Report for Group# WSCF20071520

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
33100	1	33505	37677	BLANK		Strontium 89/90
33100	2	33505	37677	LCS		Strontium 89/90
33100	3	33505	37677	DUP	W07GR02256	Strontium 89/90
33100	4	33505	37677	SAMPLE	W07GR02256	Strontium 89/90
33100	5	33505	37677	SURR	W07GR02256	Strontium 89/90
33100	6	33505	37677	SAMPLE	W07GR02257	Strontium 89/90
33100	7	33505	37677	SURR	W07GR02257	Strontium 89/90
33100	8	33505	37677	SAMPLE	W07GR02258	Strontium 89/90
33100	9	33505	37677	SURR	W07GR02258	Strontium 89/90
33100	10	33505	37677	SAMPLE	W07GR02259	Strontium 89/90
33100	11	33505	37677	SURR	W07GR02259	Strontium 89/90
33100	12	33505	37677	SAMPLE	W07GR02260	Strontium 89/90
33100	13	33505	37677	SURR	W07GR02260	Strontium 89/90
33100	14	33505	37677	SAMPLE	W07GR02261	Strontium 89/90
33100	15	33505	37677	SURR	W07GR02261	Strontium 89/90
33100	16	33505	37677	SAMPLE	W07GR02262	Strontium 89/90
33100	17	33505	37677	SURR	W07GR02262	Strontium 89/90
33103	1	33506	37691	BLANK		Strontium 89/90
33103	2	33506	37691	LCS		Strontium 89/90
33103	3	33506	37691	DUP	W07GR02263	Strontium 89/90
33103	4	33506	37691	SAMPLE	W07GR02263	Strontium 89/90
33103	5	33506	37691	SURR	W07GR02263	Strontium 89/90
33103	6	33506	37691	SAMPLE	W07GR02264	Strontium 89/90
33103	7	33506	37691	SURR	W07GR02264	Strontium 89/90
33103	8	33506	37691	SAMPLE	W07GR02265	Strontium 89/90
33103	9	33506	37691	SURR	W07GR02265	Strontium 89/90
33103	10	33506	37691	SAMPLE	W07GR02266	Strontium 89/90
33103	11	33506	37691	SURR	W07GR02266	Strontium 89/90
33103	12	33506	37691	SAMPLE	W07GR02267	Strontium 89/90
33103	13	33506	37691	SURR	W07GR02267	Strontium 89/90
33103	14	33506	37691	SAMPLE	W07GR02268	Strontium 89/90
33103	15	33506	37691	SURR	W07GR02268	Strontium 89/90
33103	16	33506	37691	SAMPLE	W07GR02269	Strontium 89/90
33103	17	33506	37691	SURR	W07GR02269	Strontium 89/90

WSCF METHOD REFERENCES REPORT

Department: Inorganic

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

LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE HEIS 6010_METALS_ICP Inductively Coupled Plasma-Atomic Emission Spectrometry
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY EPA-600/R-94-111 300.0 DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY HEIS 300.0_ANIONS_IC Determination of Inorganic Anions by Ion Chromatography

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

Report Date: 6-sep-2007
Report#: WSCF20071520
Report: WGP/5.2

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 Rontium 89/90

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

Report Date: 6-sep-2007
Report#: WSCF20071520
Report WGPPM/5.2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20071520
SAF Number: F06-027 **Department:** Inorganic
Sample #: W07GR02256 **Sampled:** 08/23/07
Client ID: B1PCP9 **Matrix:** WATER **Received:** 08/23/07

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	BD	0.0590	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	67.4	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	N02-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	N03-N	LA-533-410	BD	0.192	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	P04-P	LA-533-410	D	32.6	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	BD	0.401	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	527	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	1.28e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	374	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	3.00e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	148	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	3.16e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	25.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	D	29.5	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	103	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W07GR02256
Client ID: B1PCP9 TREN
WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	9.78e+03	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	49.9	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	72.3	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

* - 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 **Group #:** WSCF20071520
SAF Number: F06-027 **Department:** Inorganic
Sample #: W07GR02257 **Sampled:** 08/23/07
Client ID: B1PCR1 **Matrix:** WATER **Received:** 08/23/07

TRENT **WATER**
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	38.2	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.0250	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	D	5.80	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	BD	2.46	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	417	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	9.52e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	1.44e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	D	23.6	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	3.55e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	138	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	1.55e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	66.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	60.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	94.5	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02257
Client ID: B1PCR1

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.37e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	28.7	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	207	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02258
Client ID: B1PCR2

Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	4.30	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	D	0.533	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	8.08	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	D	51.3	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	D	9.47	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H20 P Prep											
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	D	246	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	72.8	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	1.68e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	2.26e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	147	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	1.64e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	40.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	95.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	95.6	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02258
Client ID: B1PCR2 TREN WSCF
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	8.77e+03	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	<	135		ug/L	5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	32.4	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	44.4	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	<	250		ug/L	5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02259
Client ID: B1PCR3 TREN WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	62.8	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.0897	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	D	19.2	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	DU	< 0.350	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	374	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	8.53e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	1.03e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	4.40e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	156	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	2.51e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	48.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	92.8	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02259
Client ID: B1PCR3

Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	4.77e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	44.9	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	202	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02260
Client ID: B1PCR5 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	61.3	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.0250	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	BD	1.23	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	D	7.99	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H20 P Prep											
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	D	1.05e+03	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	1.85e+04	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	3.32e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	4.18e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	152	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	8.33e+04	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	144	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	94.0	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

C - The Analyte was found in the Associated Blank (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

* - 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: F06-027
Sample # W07GR02260
Client ID: B1PCRS5 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.08e+05	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	41.2	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	382	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02261
Client ID: B1PCR7 TREN
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed CAS # Method RQ Result Unit TP Err Unit DF MDL PQL Analysis Date

Anions by Ion Chromatography

Fluoride	16984-48-8	LA-533-410	BD	0.0727	mg/L		5.00	0.030	08/28/07
Chloride	16887-00-6	LA-533-410	D	48.3	mg/L		5.00	0.15	08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L		5.00	0.050	08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.216	mg/L		5.00	0.025	08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	D	17.7	mg/L		5.00	0.20	08/28/07
Sulfate	14808-79-8	LA-533-410	BD	0.496	mg/L		5.00	0.35	08/28/07

ICP Metals Analysis, Grd H2O P Prep

ICP Metals Analysis, Grd H2O P

Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L		5.00	1.5e+02	09/05/07
Iron	7439-89-6	LA-505-411	CD	560	ug/L		5.00	45	09/05/07
Magnesium	7439-95-4	LA-505-411	D	1.04e+04	ug/L		5.00	30	09/05/07
Manganese	7439-96-5	LA-505-411	D	1.14e+03	ug/L		5.00	20	09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L		5.00	20	09/05/07
Potassium	7440-09-7	LA-505-411	D	3.84e+03	ug/L		5.00	2.2e+02	09/05/07
Silver	7440-22-4	LA-505-411	CD	162	ug/L		5.00	25	09/05/07
Sodium	7440-23-5	LA-505-411	D	2.06e+05	ug/L		5.00	1.4e+02	09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L		5.00	1.6e+02	09/05/07
Barium	7440-39-3	LA-505-411	CD	35.0	ug/L		5.00	20	09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L		5.00	20	09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L		5.00	20	09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L		5.00	20	09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L		5.00	20	09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L		5.00	35	09/05/07
Zinc	7440-66-6	LA-505-411	CD	90.6	ug/L		5.00	20	09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02261
Client ID: B1PCR7 TRENT WSCF
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.01e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	49.2	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	152	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20071520
SAF Number: F06-027 **Department:** Inorganic
Sample #: W07GR02262 **Sampled:** 08/23/07
Client ID: B1PCR8 **Matrix:** WATER **Received:** 08/23/07
TRENT **WSCF**

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	4.20	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	0.847	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.200	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	D	8.59	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	6.07e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	1.94e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	134	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	7.87e+03	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	46.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	51.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	94.9	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02262
Client ID: B1PCR8 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	3.52e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	120	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02263
Client ID: B1PCR9

TRENT
WSCF
Matrix: WATER

CAS # **Method** **RQ** **Result** **Unit** **TP Err** **Unit** **DF** **MDL** **PQL** **Analysis Date**

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	BD	1.59	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	D	0.599	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.200	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	D	8.72	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	109	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	5.11e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	1.62e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	153	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	3.73e+03	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	41.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	94.1	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error C - The Analyte was found in the Associated Blank. (inorg)
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria (inorg)

* - 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: F06-027
Sample # W07GR02263
Client ID: B1PCR9 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	2.99e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	104	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 C - The Analyte was found in the Associated Blank (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02264
Client ID: B1PCTO TREN
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	46.4	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.0479	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	D	30.0	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	BD	1.22	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	434	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	6.88e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	1.42e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	3.25e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	144	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	1.72e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	60.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	98.7	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02264
Client ID: B1PCT0 TREN WSCF
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	3.16e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	32.4	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	109	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02265
Client ID: B1PCT1 TREN
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed CAS # Method RQ Result Unit TP Err Unit DF MDL PQL Analysis Date

Anions by Ion Chromatography

Fluoride	16984-48-8	LA-533-410	DU	<	0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D		76.8	mg/L			5.00	0.15		08/28/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	<	0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	<	0.0250	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	P04-P	LA-533-410	D		33.0	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	DU	<	0.350	mg/L			5.00	0.35		08/28/07

ICP Metals Analysis, Grd H2O P Prep

Aluminum	7429-90-5	LA-505-411	DU	<	150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD		347	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D		4.82e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D		858	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	D		23.2	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D		4.41e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD		147	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D		2.37e+05	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	<	160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD		45.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	<	20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	<	20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	<	20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	<	20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	<	35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD		92.5	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated;
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02265
Client ID: B1PCT1 TREN WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	2.49e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	31.2	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	75.0	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02266
Client ID: B1PCT2 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/28/07
Chloride	16887-00-6	LA-533-410	D	90.1	mg/L			10.00	0.30		09/04/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/28/07
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.194	mg/L			5.00	0.025		08/28/07
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.200	mg/L			5.00	0.20		08/28/07
Sulfate	14808-79-8	LA-533-410	DU	< 0.350	mg/L			5.00	0.35		08/28/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	413	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	7.92e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	3.45e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	2.68e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	172	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	9.42e+04	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	205	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	59.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	96.2	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02266
Client ID: B1PCT2 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	4.67e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	71.1	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	193	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W07GR02267
Client ID: B1PCT3
TRENT WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/29/07
Chloride	16887-00-6	LA-533-410	D	49.4	mg/L			5.00	0.15		08/29/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/29/07
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.0598	mg/L			5.00	0.025		08/29/07
Phosphate (P) by IC	PO4-P	LA-533-410	BD	1.07	mg/L			5.00	0.20		08/29/07
Sulfate	14808-79-8	LA-533-410	D	9.63	mg/L			5.00	0.35		08/29/07
ICP Metals Analysis, Grd H2O P Prep											
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	1.40e+04	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	5.09e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	D	21.2	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	3.35e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	165	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	5.05e+04	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	D	474	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	DU	< 35.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	92.5	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02267
Client ID: B1PCT3 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.85e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	26.2	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	275	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20071520
SAF Number: F06-027 **Department:** Inorganic
Sample #: W07GR02268 **Sampled:** 08/23/07
Client ID: B1PCT4 **Matrix:** WATER **Received:** 08/23/07
TRENT **WATER**
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/29/07
Chloride	16887-00-6	LA-533-410	D	91.8	mg/L			10.00	0.30		09/04/07
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0500	mg/L			5.00	0.050		08/29/07
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.0250	mg/L			5.00	0.025		08/29/07
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.200	mg/L			5.00	0.20		08/29/07
Sulfate	14808-79-8	LA-533-410	DU	< 0.350	mg/L			5.00	0.35		08/29/07
ICP Metals Analysis, Grd H20 P Prep											
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	D	365	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	D	1.43e+03	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	2.31e+04	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	D	3.21e+03	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	3.73e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	190	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	7.93e+04	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	185	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	40.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	92.3	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02268
Client ID: B1PCT4 TREN
WSCF

Matrix: WATER

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.49e+05	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	<	135 ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	25.6	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	502	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	<	250 ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02269
Client ID: B1PCT5
TRENT
WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.0300	mg/L			5.00	0.030		08/29/07
Chloride	16887-00-6	LA-533-410	D	9.34	mg/L			5.00	0.15		08/29/07
Nitrogen in Nitrite	N02-N	LA-533-410	BD	0.0838	mg/L			5.00	0.050		08/29/07
Nitrogen in Nitrate	N03-N	LA-533-410	D	0.655	mg/L			5.00	0.025		08/29/07
Phosphate (P) by IC	P04-P	LA-533-410	D	11.4	mg/L			5.00	0.20		08/29/07
Sulfate	14808-79-8	LA-533-410	D	8.75	mg/L			5.00	0.35		08/29/07
ICP Metals Analysis, Grd H20 P Prep											
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 150	ug/L			5.00	1.5e+02		09/05/07
Iron	7439-89-6	LA-505-411	CD	53.2	ug/L			5.00	45		09/05/07
Magnesium	7439-95-4	LA-505-411	D	3.76e+03	ug/L			5.00	30		09/05/07
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Nickel	7440-02-0	LA-505-411	D	24.0	ug/L			5.00	20		09/05/07
Potassium	7440-09-7	LA-505-411	D	1.52e+03	ug/L			5.00	2.2e+02		09/05/07
Silver	7440-22-4	LA-505-411	CD	146	ug/L			5.00	25		09/05/07
Sodium	7440-23-5	LA-505-411	D	5.58e+04	ug/L			5.00	1.4e+02		09/05/07
Antimony	7440-36-0	LA-505-411	DU	< 160	ug/L			5.00	1.6e+02		09/05/07
Barium	7440-39-3	LA-505-411	CD	46.0	ug/L			5.00	20		09/05/07
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Chromium	7440-47-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Copper	7440-50-8	LA-505-411	DU	< 20.0	ug/L			5.00	20		09/05/07
Vanadium	7440-62-2	LA-505-411	CD	46.0	ug/L			5.00	35		09/05/07
Zinc	7440-66-6	LA-505-411	CD	103	ug/L			5.00	20		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg) U - Analyzed for but not detected above limiting criteria(inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02269
Client ID: B1PCT5 TREN
 WSCF

Group #: WSCF20071520
Department: Inorganic
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.81e+04	ug/L			5.00	1.7e+02		09/05/07
Lead	7439-92-1	LA-505-411	DU	< 135	ug/L			5.00	1.4e+02		09/05/07
Molybdenum	7439-98-7	LA-505-411	CD	28.7	ug/L			5.00	20		09/05/07
Strontium	7440-24-6	LA-505-411	D	78.4	ug/L			5.00	20		09/05/07
Arsenic	7440-38-2	LA-505-411	DU	< 250	ug/L			5.00	2.5e+02		09/05/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: Anions by Ion Chromatography

Sample Date: 08/23/07

Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Chloride	16887-00-6	1.644		RPD			3.252	20.000		08/28/07
DUP	Fluoride	16984-48-8	<3e-2		RPD			n/a	20.000	U	08/28/07
DUP	Nitrogen in Nitrite	NO2-N	<5e-2		RPD			n/a	20.000	U	08/28/07
DUP	Nitrogen in Nitrate	NO3-N	0.6407		RPD			6.744	20.000		08/28/07
DUP	Phosphate (P) by IC	PO4-P	<0.2		RPD			n/a	20.000	U	08/28/07
DUP	Sulfate	14808-79-8	8.5726		RPD			1.692	20.000		08/28/07
MS	Chloride	16887-00-6	0.9563	96.596	% Recov	75.000	125.000				08/28/07
MS	Fluoride	16984-48-8	0.50392	100.382	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrite	NO2-N	0.46496	93.365	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrate	NO3-N	0.46426	102.940	% Recov	75.000	125.000				08/28/07
MS	Phosphate (P) by IC	PO4-P	0.88638	92.912	% Recov	75.000	125.000				08/28/07
MS	Sulfate	14808-79-8	1.9222	97.081	% Recov	75.000	125.000				08/28/07
MSD	Chloride	16887-00-6	1.02178	103.210	% Recov	75.000	125.000				08/28/07
MSD	Fluoride	16984-48-8	0.50032	99.665	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrite	NO2-N	0.47306	94.992	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrate	NO3-N	0.46644	103.424	% Recov	75.000	125.000				08/28/07
MSD	Phosphate (P) by IC	PO4-P	0.86292	90.453	% Recov	75.000	125.000				08/28/07
MSD	Sulfate	14808-79-8	1.91464	96.699	% Recov	75.000	125.000				08/28/07
SPK-RPD	Chloride	16887-00-6	103.210		RPD			6.620	20.000		08/29/07
SPK-RPD	Fluoride	16984-48-8	99.665		RPD			0.717	20.000		08/29/07
SPK-RPD	Nitrogen in Nitrite	NO2-N	94.992		RPD			1.728	20.000		08/29/07
SPK-RPD	Nitrogen in Nitrate	NO3-N	103.424		RPD			0.469	20.000		08/29/07
SPK-RPD	Phosphate (P) by IC	PO4-P	90.453		RPD			2.682	20.000		08/29/07
SPK-RPD	Sulfate	14808-79-8	96.699		RPD			0.394	20.000		08/29/07

Lab ID: W07GR02263
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

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	08/28/07	
BLANK	Chloride	16887-00-6	< 3e-2	n/a	mg/L	0.000	0.030			U	08/29/07	
BLANK	Fluoride	16984-48-8	< 6e-3	n/a	mg/L	0.000	0.030			U	08/28/07	
BLANK	Fluoride	16984-48-8	< 6e-3	n/a	mg/L	0.000	0.030			U	08/29/07	
BLANK	Nitrogen in Nitrite	NO2-N	< 1e-2	n/a	mg/L	0.000	0.020			U	08/29/07	
BLANK	Nitrogen in Nitrite	NO2-N	< 1e-2	n/a	mg/L	0.000	0.020			U	08/28/07	
BLANK	Nitrogen in Nitrate	NO3-N	< 5e-3	n/a	mg/L	0.000	0.040			U	08/28/07	
BLANK	Nitrogen in Nitrate	NO3-N	< 5e-3	n/a	mg/L	0.000	0.040			U	08/29/07	
BLANK	Phosphate (P) by IC	P04-P	< 4e-2	n/a	mg/L	0.000	0.200			U	08/28/07	
BLANK	Phosphate (P) by IC	P04-P	< 4e-2	n/a	mg/L	0.000	0.200			U	08/29/07	
BLANK	Sulfate	14808-79-8	< 7e-2	n/a	mg/L	0.000	0.200			U	08/28/07	
BLANK	Sulfate	14808-79-8	< 7e-2	n/a	mg/L	0.000	0.200			U	08/29/07	
LCS	Chloride	16887-00-6	201.9196	100.960	% Recov	80.000	120.000				08/28/07	
LCS	Fluoride	16984-48-8	107.6872	106.621	% Recov	80.000	120.000				08/28/07	
LCS	Nitrogen in Nitrite	NO2-N	99.5771	99.577	% Recov	80.000	120.000				08/28/07	
LCS	Nitrogen in Nitrate	NO3-N	92.8585	101.819	% Recov	80.000	120.000				08/28/07	
LCS	Phosphate (P) by IC	P04-P	204.6983	106.171	% Recov	80.000	120.000				08/28/07	
LCS	Sulfate	14808-79-8	394.4349	98.609	% Recov	80.000	120.000				08/28/07	
Lab ID: W07GR02262												
BATCH QC ASSOCIATED WITH SAMPLE												
DUP	Chloride	16887-00-6	4.1419		RPD			1.419	20.000		08/28/07	
DUP	Fluoride	16984-48-8	< 3e-2		RPD			n/a	20.000	U	08/28/07	
DUP	Nitrogen in Nitrite	NO2-N	< 5e-2		RPD			n/a	20.000	U	08/28/07	
DUP	Nitrogen in Nitrate	NO3-N	0.8432		RPD			0.473	20.000		08/28/07	
DUP	Phosphate (P) by IC	P04-P	< 0.2		RPD			n/a	20.000	U	08/28/07	
DUP	Sulfate	14808-79-8	8.6415		RPD			0.655	20.000		08/28/07	
MS	Chloride	16887-00-6	0.95966	96.935	% Recov	75.000	125.000				08/28/07	

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: Anions by Ion Chromatography

Sample Date: 08/23/07

Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Fluoride	16984-48-8	0.484	96.414	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrite	NO2-N	0.47204	94.787	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrate	NO3-N	0.46218	102.479	% Recov	75.000	125.000				08/28/07
MS	Phosphate (P) by IC	PO4-P	0.91902	96.333	% Recov	75.000	125.000				08/28/07
MS	Sulfate	14808-79-8	1.88208	95.055	% Recov	75.000	125.000				08/28/07
MSD	Chloride	16887-00-6	0.96336	97.309	% Recov	75.000	125.000				08/28/07
MSD	Fluoride	16984-48-8	0.4917	97.948	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrite	NO2-N	0.46726	93.827	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrate	NO3-N	0.46556	103.228	% Recov	75.000	125.000				08/28/07
MSD	Phosphate (P) by IC	PO4-P	0.9322	97.715	% Recov	75.000	125.000				08/28/07
MSD	Sulfate	14808-79-8	1.92522	97.233	% Recov	75.000	125.000				08/28/07
SPK-RPD	Chloride	16887-00-6	97.309		RPD			0.385	20.000		08/28/07
SPK-RPD	Fluoride	16984-48-8	97.948		RPD			1.578	20.000		08/28/07
SPK-RPD	Nitrogen in Nitrite	NO2-N	93.827		RPD			1.018	20.000		08/28/07
SPK-RPD	Nitrogen in Nitrate	NO3-N	103.228		RPD			0.728	20.000		08/28/07
SPK-RPD	Phosphate (P) by IC	PO4-P	97.715		RPD			1.424	20.000		08/28/07
SPK-RPD	Sulfate	14808-79-8	97.233		RPD			2.265	20.000		08/28/07
<p>Lab ID: W07GR02270 BATCH QC ASSOCIATED WITH SAMPLE</p>											
DUP	Chloride	16887-00-6	8.635		RPD			0.029	20.000		08/28/07
DUP	Fluoride	16984-48-8	0.3204		RPD			1.395	20.000		08/28/07
DUP	Nitrogen in Nitrite	NO2-N	7.22e-2		RPD			5.260	20.000		08/28/07
DUP	Nitrogen in Nitrate	NO3-N	8.808		RPD			0.753	20.000		08/28/07
DUP	Sulfate	14808-79-8	23.8207		RPD			0.199	20.000		08/28/07
MS	Chloride	16887-00-6	0.9284	93.778	% Recov	75.000	125.000				08/28/07
MS	Fluoride	16984-48-8	0.4753	94.681	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrite	NO2-N	0.4772	95.823	% Recov	75.000	125.000				08/28/07
MS	Nitrogen in Nitrate	NO3-N	0.46262	102.576	% Recov	75.000	125.000				08/28/07
MS	Sulfate	14808-79-8	1.8667	94.278	% Recov	75.000	125.000				08/28/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: Anions by Ion Chromatography

Sample Date: 08/24/07

Receive Date: 08/24/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD (%)	RPD Limit	RQ	Analysis Date
MSD	Chloride	16887-00-6	0.9617	97.141	% Recov	75.000	125.000				08/28/07
MSD	Fluoride	16984-48-8	0.5374	107.052	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrite	NO2-N	0.5222	104.859	% Recov	75.000	125.000				08/28/07
MSD	Nitrogen in Nitrate	NO3-N	0.46711	103.572	% Recov	75.000	125.000				08/28/07
MSD	Sulfate	14808-79-8	1.9323	97.591	% Recov	75.000	125.000				08/28/07
SPK-RPD	Chloride	16887-00-6	97.141		RPD			3.523	20.000		08/28/07
SPK-RPD	Fluoride	16984-48-8	107.052		RPD			12.265	20.000		08/28/07
SPK-RPD	Nitrogen in Nitrite	NO2-N	104.859		RPD			9.005	20.000		08/28/07
SPK-RPD	Nitrogen in Nitrate	NO3-N	103.572		RPD			0.966	20.000		08/28/07
SPK-RPD	Sulfate	14808-79-8	97.591		RPD			3.453	20.000		08/28/07
BATCH QC											
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	08/28/07
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	08/28/07
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	08/28/07
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	08/28/07
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	08/28/07
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	08/28/07
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	08/28/07
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	08/28/07
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	08/28/07
BLANK	Phosphate (P) by IC	PO4-P	<4e-2	n/a	mg/L	0.000	0.200			U	08/28/07
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	08/28/07
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	08/28/07
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	08/28/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

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
LCS	Chloride	16887-00-6	201.7605	100.880	% Recov	80.000	120.000				08/28/07
LCS	Chloride	16887-00-6	201.8958	100.948	% Recov	80.000	120.000				08/28/07
LCS	Fluoride	16984-48-8	107.5004	106.436	% Recov	80.000	120.000				08/28/07
LCS	Fluoride	16984-48-8	108.2964	107.224	% Recov	80.000	120.000				08/28/07
LCS	Nitrogen in Nitrite	NO2-N	100.058	100.058	% Recov	80.000	120.000				08/28/07
LCS	Nitrogen in Nitrite	NO2-N	99.8945	99.894	% Recov	80.000	120.000				08/28/07
LCS	Nitrogen in Nitrate	NO3-N	93.4161	102.430	% Recov	80.000	120.000				08/28/07
LCS	Nitrogen in Nitrate	NO3-N	93.764	102.811	% Recov	80.000	120.000				08/28/07
LCS	Phosphate (P) by IC	PO4-P	204.3956	106.014	% Recov	80.000	120.000				08/28/07
LCS	Phosphate (P) by IC	PO4-P	205.2126	106.438	% Recov	80.000	120.000				08/28/07
LCS	Sulfate	14808-79-8	394.5836	98.646	% Recov	80.000	120.000				08/28/07
LCS	Sulfate	14808-79-8	395.0232	98.756	% Recov	80.000	120.000				08/28/07

Lab ID: W07GR02266 BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	90.1349		RPD			0.067	20.000		09/04/07
MS	Chloride	16887-00-6	0.85434	86.297	% Recov	75.000	125.000				09/04/07
MSD	Chloride	16887-00-6	0.84186	85.036	% Recov	75.000	125.000				09/04/07
SPK-RPD	Chloride	16887-00-6	85.036		RPD			1.472	20.000		09/04/07

BATCH QC

BLANK	Chloride	16887-00-6	< 3e-2	n/a	mg/L	0.000	0.030			U	09/04/07
BLANK	Chloride	16887-00-6	< 3e-2	n/a	mg/L	0.000	0.030			U	09/04/07
LCS	Chloride	16887-00-6	193.9045	96.952	% Recov	80.000	120.000				09/04/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: ICP Metals Analysis, Grd H2O P

Sample Date: 08/23/07

Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR02256											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	872	87.200	% Recov	75.000	125.000				09/05/07
MS	Aluminum	7429-90-5	942	94.200	% Recov	75.000	125.000				09/05/07
MS	Arsenic	7440-38-2	928	92.800	% Recov	75.000	125.000				09/05/07
MS	Barium	7440-39-3	476	95.200	% Recov	75.000	125.000				09/05/07
MS	Calcium	7440-70-2	1185	118.500	% Recov	75.000	125.000				09/05/07
MS	Cadmium	7440-43-9	921.3	92.130	% Recov	75.000	125.000				09/05/07
MS	Cobalt	7440-48-4	964.7	96.470	% Recov	75.000	125.000				09/05/07
MS	Chromium	7440-47-3	913.8	91.380	% Recov	75.000	125.000				09/05/07
MS	Copper	7440-50-8	956	95.600	% Recov	75.000	125.000				09/05/07
MS	Iron	7439-89-6	896.8	89.680	% Recov	75.000	125.000				09/05/07
MS	Potassium	7440-09-7	10662	106.620	% Recov	75.000	125.000				09/05/07
MS	Magnesium	7439-95-4	959	95.900	% Recov	75.000	125.000				09/05/07
MS	Manganese	7439-96-5	976	97.600	% Recov	75.000	125.000				09/05/07
MS	Molybdenum	7439-98-7	940.6	94.060	% Recov	70.000	130.000				09/05/07
MS	Sodium	7440-23-5	NA	n/a	% Recov	75.000	125.000				09/05/07
MS	Nickel	7440-02-0	955.4	95.540	% Recov	75.000	125.000				09/05/07
MS	Lead	7439-92-1	910	91.000	% Recov	75.000	125.000				09/05/07
MS	Antimony	7440-36-0	1055	105.500	% Recov	75.000	125.000				09/05/07
MS	Strontium	7440-24-6	475.8	95.160	% Recov	75.000	125.000				09/05/07
MS	Vanadium	7440-62-2	985	98.500	% Recov	75.000	125.000				09/05/07
MS	Zinc	7440-66-6	913	91.300	% Recov	75.000	125.000				09/05/07
MSD	Silver	7440-22-4	872	87.200	% Recov	75.000	125.000				09/05/07
MSD	Aluminum	7429-90-5	929.7	92.970	% Recov	75.000	125.000				09/05/07
MSD	Arsenic	7440-38-2	834	83.400	% Recov	75.000	125.000				09/05/07
MSD	Barium	7440-39-3	475	95.000	% Recov	75.000	125.000				09/05/07
MSD	Calcium	7440-70-2	1285	128.500	% Recov	75.000	125.000				09/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: ICP Metals Analysis, Grd H2O P

Sample Date: 08/23/07

Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	919.4	91.940	% Recov	75.000	125.000				09/05/07
MSD	Cobalt	7440-48-4	956.9	95.690	% Recov	75.000	125.000				09/05/07
MSD	Chromium	7440-47-3	897.4	89.740	% Recov	75.000	125.000				09/05/07
MSD	Copper	7440-50-8	946	94.600	% Recov	75.000	125.000				09/05/07
MSD	Iron	7439-89-6	895.8	89.580	% Recov	75.000	125.000				09/05/07
MSD	Potassium	7440-09-7	10662	106.620	% Recov	75.000	125.000				09/05/07
MSD	Magnesium	7439-95-4	948	94.800	% Recov	75.000	125.000				09/05/07
MSD	Manganese	7439-96-5	976	97.600	% Recov	75.000	125.000				09/05/07
MSD	Molybdenum	7439-98-7	931.1	93.110	% Recov	75.000	125.000				09/05/07
MSD	Sodium	7440-23-5	NA	n/a	% Recov	75.000	125.000				09/05/07
MSD	Nickel	7440-02-0	938.1	93.810	% Recov	75.000	125.000				09/05/07
MSD	Lead	7439-92-1	931	93.100	% Recov	75.000	125.000				09/05/07
MSD	Antimony	7440-36-0	1016	101.600	% Recov	75.000	125.000				09/05/07
MSD	Strontium	7440-24-6	477	95.400	% Recov	75.000	125.000				09/05/07
MSD	Vanadium	7440-62-2	998	99.800	% Recov	75.000	125.000				09/05/07
MSD	Zinc	7440-66-6	909	90.900	% Recov	75.000	125.000				09/05/07
SPK-RPD	Silver	7440-22-4	87.200		RPD			0.000	20.000		09/05/07
SPK-RPD	Aluminum	7429-90-5	92.970		RPD			1.314	20.000		09/05/07
SPK-RPD	Arsenic	7440-38-2	83.400		RPD			10.670	20.000		09/05/07
SPK-RPD	Barium	7440-39-3	95.000		RPD			0.210	20.000		09/05/07
SPK-RPD	Calcium	7440-70-2	128.500		RPD			8.097	20.000		09/05/07
SPK-RPD	Cadmium	7440-43-9	91.940		RPD			0.206	20.000		09/05/07
SPK-RPD	Cobalt	7440-48-4	95.690		RPD			0.812	20.000		09/05/07
SPK-RPD	Chromium	7440-47-3	89.740		RPD			1.811	20.000		09/05/07
SPK-RPD	Copper	7440-50-8	94.600		RPD			1.052	20.000		09/05/07
SPK-RPD	Iron	7439-89-6	89.580		RPD			0.112	20.000		09/05/07
SPK-RPD	Potassium	7440-09-7	106.620		RPD			0.000	20.000		09/05/07
SPK-RPD	Magnesium	7439-95-4	94.800		RPD			1.154	20.000		09/05/07
SPK-RPD	Manganese	7439-96-5	97.600		RPD			0.000	20.000		09/05/07
SPK-RPD	Molybdenum	7439-98-7	93.110		RPD			1.015	20.000		09/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: ICP Metals Analysis, Grd H2O P

Sample Date: 08/23/07

Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Sodium	7440-23-5			RPD			n/a	20.000		09/05/07
SPK-RPD	Nickel	7440-02-0	93.810		RPD			1.827	20.000		09/05/07
SPK-RPD	Lead	7439-92-1	93.100		RPD			2.281	20.000		09/05/07
SPK-RPD	Antimony	7440-36-0	101.600		RPD			3.766	20.000		09/05/07
SPK-RPD	Strontium	7440-24-6	95.400		RPD			0.252	20.000		09/05/07
SPK-RPD	Vanadium	7440-62-2	99.800		RPD			1.311	20.000		09/05/07
SPK-RPD	Zinc	7440-66-6	90.900		RPD			0.439	20.000		09/05/07
BATCH QC											
BLANK	Silver	7440-22-4	32	32.000	ug/L						09/05/07
BLANK	Aluminum	7429-90-5	<30	n/a	ug/L					U	09/05/07
BLANK	Arsenic	7440-38-2	<50	n/a	ug/L					U	09/05/07
BLANK	Barium	7440-39-3	4	4.000	ug/L						09/05/07
BLANK	Calcium	7440-70-2	<34	n/a	ug/L						09/05/07
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L						09/05/07
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L						09/05/07
BLANK	Chromium	7440-47-3	<4	n/a	ug/L						09/05/07
BLANK	Copper	7440-50-8	<4	n/a	ug/L						09/05/07
BLANK	Iron	7439-89-6	9.9	9.900	ug/L						09/05/07
BLANK	Potassium	7440-09-7	<45	n/a	ug/L						09/05/07
BLANK	Magnesium	7439-95-4	6.4	6.400	ug/L						09/05/07
BLANK	Manganese	7439-96-5	<4	n/a	ug/L						09/05/07
BLANK	Molybdenum	7439-98-7	4.6	4.600	ug/L						09/05/07
BLANK	Sodium	7440-23-5	<27	n/a	ug/L						09/05/07
BLANK	Nickel	7440-02-0	<4	n/a	ug/L						09/05/07
BLANK	Lead	7439-92-1	<27	n/a	ug/L						09/05/07
BLANK	Antimony	7440-36-0	<32	n/a	ug/L						09/05/07
BLANK	Strontium	7440-24-6	<4	n/a	ug/L						09/05/07
BLANK	Vanadium	7440-62-2	13	13.000	ug/L						09/05/07
BLANK	Zinc	7440-66-6	17.4	17.400	ug/L						09/05/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071520

Matrix: WATER

Test: ICP Metals Analysis, Grd H20 P

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Silver	7440-22-4	945	94.500	% Recov	80.000	120.000				09/05/07
LCS	Aluminum	7429-90-5	930.5	93.050	% Recov	80.000	120.000				09/05/07
LCS	Arsenic	7440-38-2	964	96.400	% Recov	80.000	120.000				09/05/07
LCS	Barium	7440-39-3	477	95.400	% Recov	80.000	120.000				09/05/07
LCS	Calcium	7440-70-2	1003	100.300	% Recov	80.000	120.000				09/05/07
LCS	Cadmium	7440-43-9	972.4	97.240	% Recov	80.000	120.000				09/05/07
LCS	Cobalt	7440-48-4	986.2	98.620	% Recov	80.000	120.000				09/05/07
LCS	Chromium	7440-47-3	969.6	96.960	% Recov	80.000	120.000				09/05/07
LCS	Copper	7440-50-8	992	99.200	% Recov	80.000	120.000				09/05/07
LCS	Iron	7439-89-6	978	97.800	% Recov	80.000	120.000				09/05/07
LCS	Potassium	7440-09-7	9854	98.540	% Recov	80.000	120.000				09/05/07
LCS	Magnesium	7439-95-4	952.5	95.250	% Recov	80.000	120.000				09/05/07
LCS	Manganese	7439-96-5	976	97.600	% Recov	80.000	120.000				09/05/07
LCS	Molybdenum	7439-98-7	965.8	96.580	% Recov	80.000	120.000				09/05/07
LCS	Sodium	7440-23-5	920.7	92.070	% Recov	80.000	120.000				09/05/07
LCS	Nickel	7440-02-0	958	95.800	% Recov	80.000	120.000				09/05/07
LCS	Lead	7439-92-1	1000	100.000	% Recov	80.000	120.000				09/05/07
LCS	Antimony	7440-36-0	1012	101.200	% Recov	80.000	120.000				09/05/07
LCS	Strontium	7440-24-6	473.6	94.720	% Recov	80.000	120.000				09/05/07
LCS	Vanadium	7440-62-2	971	97.100	% Recov	80.000	120.000				09/05/07
LCS	Zinc	7440-66-6	980.8	98.080	% Recov	80.000	120.000				09/05/07

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number: F06-027

Group #: WSCF20071520
Department: Inorganic

Sample # **Client ID** **Lab Area** **Test** **Comment**

VALGROUP

W07GR02260/Sr-85 tracer recovery is flagged for being out of limits. Since all the other tracer recoveries came out fine, this batch has been approved. 1mh

W07GR02256-2262/Sr89/90 batch duplicate is flagged for poor RPD. Since all the other OC checks came out fine, this batch has been approved. 1mh

ICP-AES: High silver, zinc, iron, magnesium, molybdenum, vanadium, and barium preparation blank results; "C" flags if applicable.

Sodium sample result beyond effective spike range (spike results marked "NA").

Check and high standards used to ensure calcium and sodium linearity because sample results are greater than the calibration standard.

High calcium MSD recovery; no flag issued because all other QC is acceptable.

pH of sample B1PCR8 is <2. This was the only sample that was that acidic (the way they should be). Here is a list of samples and pH's. Sample: pH:

B1PCP9	7
B1PCR1	5
B1PCR2	5

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

TESTDATA - Test Data Entry

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WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number: F06-027
Group #: WSCF20071520
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
				B1PCR3 5
				B1PCR5 5
				B1PCR7 5
				B1PCR9 4
				B1PCT0 5
				B1PCT1 5
				B1PCT2 5
				B1PCT3 4
				B1PCT4 5
				B1PCT5 4

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02256
Client ID: B1PCP9 TREN
 WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		120	pCi/L	+ -20.4		1.00	5.8		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		91.1	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated;
 Report *WGPP/ver. 5.2*
Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

+ - Indicates more than six qualifier symbols

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02257
Client ID: BIPCR1 TREN
 WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.70e+03	pCi/L	+ -204	pCi/L	1.00	5.5		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		96.4	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02258
Client ID: B1PCR2 TREN
 WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Sr-85 Tracer by Beta Counting	SR-RAD SR85	LA-508-415 LA-508-415		240 86.0	pCi/L Percent	+33.6		1.00 1.00	6.1 0.0		08/28/07 08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02259
Client ID: B1PCR3 TREN
 WSCF

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.40e+03	pCi/L	+ .182		1.00	6.1		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		86.1	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error
DF = Dilution Factor U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated;
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02260
Client ID: BIPCR5 TREN
 WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		3.00e+03	pCi/L	+ .360	pCi/L	1.00	4.8		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		110	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02261
Client ID: BIPCR7
TRENT
WSCF

Matrix: WATER

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.30e+03	pCi/L	+ -156		1.00	5.3		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.2	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;
 Report *WGPP/ver. 5.2*

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 C - The Analyte was found in the Associated Blank. (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02263
Client ID: B1PCR9 TREN
 WSCF

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		830	pCi/L	+ -99.6	pCi/L	1.00	5.2		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		86.1	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

* - 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: F06-027
Sample # W07GR02264
Client ID: B1PCT0 TREN
 WSCF

Matrix: WATER

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Sr-85 Tracer by Beta Counting	SR-RAD	LA-508-415		1.90e +03	pCi/L	+ -247	pCi/L	1.00	5.0		08/28/07
	SR85	LA-508-415		89.1	Percent			1.00	0.0		08/28/07

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 C - The Analyte was found in the Associated Blank. (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02265
Client ID: B1PCT1 TREN
 WSCF
Matrix: WATER
Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		1.10e+03	pCi/L	+-.143	pCi/L	1.00	5.7		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		79.8	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W07GR02266
Client ID: B1PCT2 TREN
WSCF

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		930	pCi/L	+ -130	pCi/L	1.00	6.5		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		69.2	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error

DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W07GR02267
Client ID: B1PCT3

Matrix: WATER

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

TRENT
WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		2.20e+03	pCi/L	+ -308		1.00	7.8		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		58.2	Percent			1.00	0.0		08/28/07

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

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report WGPP/ver. 5.2
 Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W07GR02268
Client ID: B1PCT4 TREN
WSCF

Matrix: WATER

Group #:	WSCF20071520	MDL	PQL	Analysis Date
Department:	Radiochemistry			
Sampled:	08/23/07			
Received:	08/23/07			

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		2.90e+03	pCi/L	+ -406		1.00	6.4		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		70.9	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg) C - The Analyte was found in the Associated Blank. (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor (inorg) U - Analyzed for but not detected above limiting criteria (inorg)
TP Err = Total Propagated Error
DF = Dilution Factor
 * - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W07GR02269
Client ID: B1PCT5 TREN
 WSCF

Group #: WSCF20071520
Department: Radiochemistry
Sampled: 08/23/07
Received: 08/23/07

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		350	pCi/L	+49.0	pCi/L	1.00	6.4		08/28/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		70.8	Percent			1.00	0.0		08/28/07

MDL = Minimum Detection Limit B - The analyte < the RDL but > = the IDL/MDL (inorg)
RQ = Result Qualifier D - Analyte was identified at a secondary dilution factor(inorg)
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols
 Report *WGPP/ver. 5.2*
Groundwater Remediation Program

C - The Analyte was found in the Associated Blank. (inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071520
 Matrix: WATER
 Test: Strontium 89/90

Sample Date: 08/23/07
 Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR02256											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	84.1	84.100	% Recov	30.000	105.000				08/28/07
DUP	Strontium-89/90	SR-RAD	1.5E+02		RPD			22.222	20.000	*	08/28/07
SURR	Sr-85 Tracer by Beta Counting	SR85	91.1	91.100	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02257											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	96.4	96.400	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02258											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	86.0	86.000	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02259											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	86.1	86.100	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02260											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	110.3	110.300	% Recov	30.000	105.000			*	08/28/07
Lab ID: W07GR02261											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	99.2	99.200	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02262											
BATCH QC ASSOCIATED WITH SAMPLE											

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071520
 Matrix: WATER
 Test: Strontium 89/90

Sample Date: 08/23/07
 Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Sr-85 Tracer by Beta Counting	SR85	90.6	90.600	% Recov	30.000	105.000				08/28/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	91.3	91.300	% Recov	30.000	105.000				08/28/07
BLANK	Strontium-89/90	10098-97-2	U-5.8	n/a	pCi/L	-10.000	100.000				08/28/07
LCS	Sr-85 Tracer by Beta Counting	SR85	89.0	89.000	% Recov	30.000	105.000				08/28/07
LCS	Strontium-89/90	10098-97-2	850.0	101.992	% Recov	80.000	120.000				08/28/07
Lab ID: W07GR02263											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	94.3	94.300	% Recov	30.000	105.000				08/28/07
DUP	Strontium-89/90	SR-RAD	7.6E+02		RPD			8.805	20.000		08/28/07
SURR	Sr-85 Tracer by Beta Counting	SR85	86.1	86.100	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02264											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	89.1	89.100	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02265											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	79.8	79.800	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02266											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	69.2	69.200	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02267											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	58.2	58.200	% Recov	30.000	105.000				08/28/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071520
 Matrix: WATER
 Test: Strontium 89/90

Sample Date: 08/23/07
 Receive Date: 08/23/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD (%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR02268											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	70.9	70.900	% Recov	30.000	105.000				08/28/07
Lab ID: W07GR02269											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	70.8	70.800	% Recov	30.000	105.000				08/28/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	101.7	101.700	% Recov	30.000	105.000				08/28/07
BLANK	Strontium-89/90	10098-97-2	U-1.1E+01	n/a	pCi/L	-10.000	100.000				08/28/07
LCS	Sr-85 Tracer by Beta Counting	SR85	94.1	94.100	% Recov	30.000	105.000				08/28/07
LCS	Strontium-89/90	10098-97-2	813.0	97.546	% Recov	80.000	120.000				08/28/07

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20071520
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment						
		VALGROUP		<p>W07GR02260/Sr-85 tracer recovery is flagged for being out of limits. Since all the other tracer recoveries came out fine, this batch has been approved. Imh</p> <p>W07GR02256-2262/Sr89/90 batch duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. Imh</p> <p>ICP-AES: High silver, zinc, iron, magnesium, molybdenum, vanadium, and barium preparation blank results; "C" flags if applicable.</p> <p>Sodium sample result beyond effective spike range (spike results marked "NA").</p> <p>Check and high standards used to ensure calcium and sodium linearity because sample results are greater than the calibration standard.</p> <p>High calcium MSD recovery; no flag issued because all other QC is acceptable.</p> <p>pH of sample B1PCR8 is <2. This was the only sample that was that acidic (the way they should be). Here is a list of samples and pH's. Sample: pH:</p> <table border="1"> <tr> <td>B1PCP9</td> <td>7</td> </tr> <tr> <td>B1PCR1</td> <td>5</td> </tr> <tr> <td>B1PCR2</td> <td>5</td> </tr> </table>	B1PCP9	7	B1PCR1	5	B1PCR2	5
B1PCP9	7									
B1PCR1	5									
B1PCR2	5									

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

TESTDATA - Test Data Entry

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WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number: F06-027

Group #: WSCF20071520
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
				B1PCR3 5
				B1PCR5 5
				B1PCR7 5
				B1PCR9 4
				B1PCT0 5
				B1PCT1 5
				B1PCT2 5
				B1PCT3 4
				B1PCT4 5
				B1PCT5 4

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

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M4W41-SLF-07-611

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 7 pages
Including cover page

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

File
09/06/07
[Signature]

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20071520
Project#: F06-027
Proj Mgr: Steve Trent G6-35
Phone: 373-5869

The following samples were received from you on 08/23/07. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W07GR02256	B1PCP9	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02257	B1PCR1	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02258	B1PCR2	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02259	B1PCR3	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02260	B1PCR5	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02261	B1PCR7	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02262	B1PCR8	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02263	B1PCR9	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02264	B1PCT0	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02265	B1PCT1	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02266	B1PCT2	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02267	B1PCT3	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02268	B1PCT4	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07
W07GR02269	B1PCT5	TRENT @GPP6010 @IC-30	Water @SR89_90	08/23/07

Test Acronym Description

Test Acronym	Description
@GPP6010	ICP Metals Analysis, Grd H2O P

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20071520
Project#: F06-027
Proj Mgr: Steve Trent G6-35
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@IC-30	Anions by Ion Chromatography
@SR89_90	Strontium 89/90

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 PROJECT COORDINATOR: TRENT, SJ
 PRICE CODE: 7G
 DATA TURNAROUND: 15 Days / 30 Days

FLUOR HANFORD INC. 07/06/07
 COLLECTOR: Pope Pfister, Mokler, Connolly, Parthen, White, Webb, Julian
 COMPANY CONTACT: ALEXANDER, DJ
 TELEPHONE NO.: 373-7786
 PROJECT DESIGNATION: 100-N Apatite Barrier Performance Monitoring
 SAF NO.: F06-027
 AIR QUALITY

SAMPLING LOCATION: 100NR2 SYNAP-Hanf.Fm.Post Inj.Phase III Samples
 ICE CHEST NO.
 FIELD LOGBOOK NO.: HNF-N-531-2
 COA: 122561ES20
 METHOD OF SHIPMENT: GOVERNMENT VEHICLE
 BILL OF LADING/AIR BILL NO.

SHIPPED TO: Waste Sampling & Characterization
 MATRIX*: POSSIBLE SAMPLE HAZARDS/REMARKS
 A=Air 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)
 DL=Drum
 L=Liquid
 O=Oil
 S=Soil
 SE=Sediment
 T=Tissue
 V=Vegetation
 W=Water
 WI=Wipe
 X=Other

SPECIAL HANDLING AND/OR STORAGE
 PRESERVATION: HNO3 to pH <2 Cool-4C
 TYPE OF CONTAINER: P
 NO. OF CONTAINER(S): 1
 VOLUME: 1000mL 250mL 120mL

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	HNO3 to pH <2	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS
B1PCP9	WATER	8-23-07	1005	X	X	X
B1PCR1	WATER	8-23-07	1015	X	X	X
B1PCR2	WATER	8-23-07	1025	X	X	X
B1PCR3	WATER	8-23-07	1050	X	X	X

CHAIN OF POSSESSION
 SIGN/PRINT NAMES
 RECEIVED BY/STORED IN: TA
 DATE/TIME: 8/23/07 1320
 RECEIVED BY/STORED IN: TA
 DATE/TIME: 8/23/07 1320

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. P... 8-23-07	1320	TA	8/23/07 1320

RELINQUISHED BY/REMOVED FROM
 DATE/TIME
 RECEIVED BY/STORED IN
 DATE/TIME



COLLECTOR Pope Pfister/Mokler/Connolly/Parchen/White/Webb/Julian
COMPANY CONTACT ALEXANDER,DJ
TELEPHONE NO. 373-7786
PROJECT COORDINATOR TRENT, SJ
PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring
SAF NO. F06-027
AIR QUALITY
FIELD LOGBOOK NO. HNF-N-531-2
COA 122-561ES20
METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO.
OFFSITE PROPERTY NO.
BILL OF LADING/AIR BILL NO.

SHIPPED TO Waste Sampling & Characterization
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 HNO3 to pH <2 Cool-4C
TYPE OF CONTAINER P P
NO. OF CONTAINER(S) 1 1
VOLUME 100mL 250mL 120mL

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	SPECIAL HANDLING AND/OR STORAGE	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS
B1PCR4	WATER	8-23-07	1105		X	X
B1PCR5	WATER	8-23-07	1120		X	X
B1PCR6	WATER	8-23-07	1130		X	X

SPECIAL HANDLING AND/OR STORAGE
 Sr-90 - Total Sr; SEE ITEM (1) IN SPECIAL INSTRUCTIONS
 Sr-90 - Total Sr; SEE ITEM (2) IN SPECIAL INSTRUCTIONS

CHAIN OF POSSESSION
 RECEIVED BY/STORED IN: TA FAZ 181 Authority 8/23/07 1320
 RECEIVED BY/STORED IN: DATE/TIME
 RECEIVED BY/STORED IN: DATE/TIME

RELINQUISHED BY/REMOVED FROM
 JS Popel Authority 8-23-07 1320
RELINQUISHED BY/REMOVED FROM
 DATE/TIME
 DATE/TIME
 DATE/TIME
 DATE/TIME
 DATE/TIME
 DATE/TIME

SPECIAL INSTRUCTIONS
 All samples filtered 0.45 micron
 (1) ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Lead, Molybdenum, Strontium}
 (2) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}

B1PCR8 - bottles are partially filled, this was all the sample we could collect. Daignejanek 8-23-07

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

COLLECTOR Pope Pfister Moxier Connolly Parthen White Webb Julian
SAMPLING LOCATION 100NR2 SYNAP - Hanf. Fr. Post. Inj. Phase III Samples
ICE CHEST NO.
COMPANY CONTACT ALEXANDER, DJ
PROJECT COORDINATOR TRENT, SJ
PHONE NO. 373-7786
PRICE CODE 7G
PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring
FIELD LOGBOOK NO. HNF-N-531-2
COA 122561ES20
SAF NO. F06-027
METHOD OF SHIPMENT GOVERNMENT VEHICLE
BILL OF LADING/AIR BILL NO.

SHIPPED TO Waste Sampling & Characterization
OFFSITE PROPERTY NO.
PRESERVATION HNO3 to pH <2 Cool-4C
TYPE OF CONTAINER P P
NO. OF CONTAINER(S) 1 1 1 1
VOLUME 1000mL 250mL 120mL
SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS

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

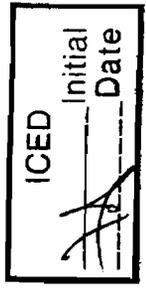
POSSIBLE SAMPLE HAZARDS/REMARKS
 Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	SPECIAL INSTRUCTIONS
B1PCR9	2263 WATER	8-23-07	1150	X
B1PCT0	2264 WATER	8-23-07	0840	X
B1PCT1	2265 WATER	8-23-07	0850	X
B1PCT2	2266 WATER	8-23-07	0900	X
B1PCT3	2267 WATER	8-23-07	0910	X

CHAIN OF POSSESSION
 RECEIVED BY / STORED IN: TA FRAZIER
 RECEIVED BY / STORED IN: TA FRAZIER
 DATE/TIME: 8-23-07 1320
 DATE/TIME: 8/23/07 1320
 SPECIAL INSTRUCTIONS: All samples filtered 0.45 micron (1) ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Lead, Molybdenum, Strontium} (2) IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrogen in Nitrate, Phosphorus in phosphate, Sulfate}

RELINQUISHED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME
J. POPE	8-23-07	TA FRAZIER	8/23/07 1320

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



COLLECTOR: Pope Pfister/Mokler/Conolly/Parthen/WhiteWebb/Julian
 SAMPLING LOCATION: 100NR2 SYNAP-Hanf.Fm. Post. Inj-Phase III Samples
 ICE CHEST NO.

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH	HNO3 to pH	Cool-to-C
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)		<2	<2	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	SPECIAL HANDLING AND/OR STORAGE
B1PCT4	WATER	8-23-07	0925	
B1PCT5	WATER	8-23-07	0940	

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM <i>J.S. Miller</i>		RECEIVED BY/STORED IN <i>T.A. FRAZIER</i>	1330	RECEIVED BY/STORED IN <i>T.A. FRAZIER</i>	8/23/07 1330	RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS
 All samples filtered 0.45 micron
 (1) ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Lead, Molybdenum, Strontium}
 (2) IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}

ICED Initial Date

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

