

RECEIVED AUGUST 19, 2008

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FLUOR

Memorandum

M4W41-SLF-08-842

To: H. Hampt E6-35 Date: August 18, 2008

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

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081490 – 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. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following attachments for sample delivery group WSCF20081490:

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

SLF/grf

Attachments 5

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081490
Data Deliverable Date: 04-aug-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F06-027	B1WC21	W08GR02670	WATER
	B1WC51	W08GR02671	WATER
	B1WC52	W08GR02672	WATER
	B1WC53	W08GR02673	WATER
	B1WC54	W08GR02674	WATER
	B1WC55	W08GR02675	WATER
	B1WC56	W08GR02676	WATER
	B1WC57	W08GR02677	WATER
	B1WC58	W08GR02678	WATER
	B1WC60	W08GR02679	WATER
	B1WC61	W08GR02680	WATER
	B1WC62	W08GR02681	WATER
	B1WC63	W08GR02682	WATER
	B1WC64	W08GR02683	WATER
	B1WC65	W08GR02684	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Fifteen (15) S&GRP samples were received at the WSCF Laboratory on July 18, 2008. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A copy of proposed Issue Resolution Form (IRF) is included as Attachment 3. A Data Summary Report (Attachment 4) 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 5.

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

Analytical Methodology for Requested Analyses

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

Inorganic Comments

Anions – The regulatory hold time requirement was not met. See comment below. Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with each batch in this delivery group per GRP Letter of Instruction. See pages 45 through 51 for QC details. Analytical Note(s):

- Missed Hold Time – Except for sample B1WC52, all of the sample analyses were completed within the 2X hold time extension allowed by the client on account of the difficult matrix and large number of samples received by the WSCF laboratory. Refer to e-mail direction provided by the client on extending the hold time requirement to 2X.
- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1WC65 and B1WC64 of this SDG and samples B1WBJ1 (SDG# 20081437, F06-027), and B1W811 (SDG# 20081495, F06-027) from other SDGs.
- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit were B flagged.
- Batch QC (B1WC64) - There was unknown peak interference affecting the phosphate result in sample B1WC52 (sample was X flagged). Batch QC (B1WC64) – The sample

duplicate RPD did not meet the laboratory requirement for chloride in sample B1WC54. The chloride recovery in the MS/MSD for this batch was also below the laboratory requirement. The MS/MSD recovery for chloride was recalculated using the duplicate result and chloride recovery in the MS/MSD was 95.47% and 96.01% respectively.

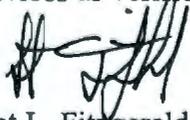
All other QC controls are within the established limits.

ICP-AES Metals – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank, and Laboratory Control Sample were analyzed with each batch in this delivery group per the GRP Letter of Instruction. See pages 52 through 59 for details.

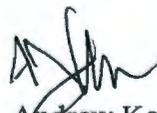
Analytical Note(s):

- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on sample B1WC61 of this SDG, and B1W8C09 (SDG# 20081482, F06-027) from another SDG.
- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit were B flagged.
- Batch QC - B1WC09
 - Calcium and Sodium sample results exceeded the spiking levels by a factor of four in the MS/MSD. Spike recoveries are not valid. Affected samples were X flagged.
- Batch QC - B1WC61
 - Antimony and Molybdenum – MSD recovery was above the established laboratory limits. Affected sample results were N flagged if sample result was greater than the MDL.
 - Calcium and Sodium sample results exceeded the spiking levels by a factor of four in the MS/MSD. Spike recoveries are not valid. Affected samples were X flagged.
 - Magnesium, Potassium, and Strontium – MS/MSD recovery was below the established laboratory limits. Affected samples were N flagged

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



Andrew Kopriva
WSCF Client Services

M4W41-SLF-08-842

ATTACHMENT 3

ISSUE RESOLUTION FORM

Consisting of 3 pages
Including cover page

ISSUE RESOLUTION FORM

PNNL TRACKING NUMBER: 08-XXX

Date : 8-17-2008 SAF No. F06-027

SDG: WSCF20081490 LOGIN No.: TEST: ANIONS (@IC-30)

Sample No.(s) B1WC63

W08GR02682

Submitted By: WW Baird Submitted To: H Hampt
Phone No. 373-7189 Phone No. 376-4319
Fax No. 372-0456 Fax No

ISSUE

The 2X regulatory hold time authorization was missed on the S&GRP sample identified above for the Nitrite-N, Nitrate-N and Phosphate-P analyses.

This sample were collected in the field and submitted to the WSCF Laboratory on July 17, 2008 for analysis.

Sample analysis was delayed beyond the 2X hold time authorization. Refer to e-mail from S&GRP client (Dana Widrig) authorizing a 2X hold time extension for IC analysis on Apatite Barrier samples. Analytical notes for this sample

- Batch QC - B1WC61
 - o Antimony and Molybdenum – MSD recovery was above the established laboratory limits. Affected sample results were N flagged.
 - o Magnesium, Potassium, and Strontium – MS/MSD recovery was below the established laboratory limits. Affected sample results were N flagged

QC Controls – All other QC controls are within the established limits.

PROPOSED RESOLUTION

Accept Nitrite-N, Nitrate-N and Phosphate-P analytical results (accept as-is) and document missed holding time in the case narrative.

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ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 51 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

 S. Fitzgerald 8/18/08

Client Services:

 A. Kopriva 8/17/08

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

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

Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20081490

Report Date: 16-aug-2008

Report WGPP/ver. 5.2

Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081490

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37185	2	37592	41925	BLANK		Anions by Ion Chromatography
37185	13	37592	41925	BLANK		Anions by Ion Chromatography
37185	3	37592	41925	LCS		Anions by Ion Chromatography
37185	8	37592	41925	SAMPLE	W08GR02674	Anions by Ion Chromatography
37185	9	37592	41925	SAMPLE	W08GR02675	Anions by Ion Chromatography
37185	10	37592	41925	SAMPLE	W08GR02676	Anions by Ion Chromatography
37185	11	37592	41925	SAMPLE	W08GR02678	Anions by Ion Chromatography
37185	5	37592	41925	DUP	W08GR02684	Anions by Ion Chromatography
37185	6	37592	41925	MS	W08GR02684	Anions by Ion Chromatography
37185	7	37592	41925	MSD	W08GR02684	Anions by Ion Chromatography
37185	4	37592	41925	SAMPLE	W08GR02684	Anions by Ion Chromatography
37185	7	37592	41925	SPK-RPD	W08GR02684	Anions by Ion Chromatography
37183	2	37593	41928	BLANK		Anions by Ion Chromatography
37183	13	37593	41928	BLANK		Anions by Ion Chromatography
37183	3	37593	41928	LCS		Anions by Ion Chromatography
37183	8	37593	41928	SAMPLE	W08GR02670	Anions by Ion Chromatography
37183	9	37593	41928	SAMPLE	W08GR02671	Anions by Ion Chromatography
37183	10	37593	41928	SAMPLE	W08GR02672	Anions by Ion Chromatography
37183	11	37593	41928	SAMPLE	W08GR02673	Anions by Ion Chromatography
37183	12	37593	41928	SAMPLE	W08GR02677	Anions by Ion Chromatography
37183	5	37593	41928	DUP	W08GR02683	Anions by Ion Chromatography
37183	6	37593	41928	MS	W08GR02683	Anions by Ion Chromatography
37183	7	37593	41928	MSD	W08GR02683	Anions by Ion Chromatography
37183	4	37593	41928	SAMPLE	W08GR02683	Anions by Ion Chromatography
37183	7	37593	41928	SPK-RPD	W08GR02683	Anions by Ion Chromatography
37199	2	37633	41954	BLANK		Anions by Ion Chromatography
37199	13	37633	41954	BLANK		Anions by Ion Chromatography
37199	25	37633	41954	BLANK		Anions by Ion Chromatography
37199	3	37633	41954	LCS		Anions by Ion Chromatography
37199	14	37633	41954	LCS		Anions by Ion Chromatography
37199	16	37633	41954	DUP	W08GR02566	Anions by Ion Chromatography
37199	17	37633	41954	MS	W08GR02566	Anions by Ion Chromatography
37199	18	37633	41954	MSD	W08GR02566	Anions by Ion Chromatography
37199	18	37633	41954	SPK-RPD	W08GR02566	Anions by Ion Chromatography
37199	8	37633	41954	SAMPLE	W08GR02679	Anions by Ion Chromatography
37199	9	37633	41954	SAMPLE	W08GR02680	Anions by Ion Chromatography
37199	10	37633	41954	SAMPLE	W08GR02681	Anions by Ion Chromatography
37199	11	37633	41954	SAMPLE	W08GR02682	Anions by Ion Chromatography
37199	5	37633	41954	DUP	W08GR02711	Anions by Ion Chromatography
37199	6	37633	41954	MS	W08GR02711	Anions by Ion Chromatography
37199	7	37633	41954	MSD	W08GR02711	Anions by Ion Chromatography
37199	7	37633	41954	SPK-RPD	W08GR02711	Anions by Ion Chromatography
37488	1	37849	42404	BLANK		ICP Metals Analysis, Grd H20 P
37488	2	37849	42404	LCS		ICP Metals Analysis, Grd H20 P
37488	4	37849	42404	MS	W08GR02643	ICP Metals Analysis, Grd H20 P
37488	5	37849	42404	MSD	W08GR02643	ICP Metals Analysis, Grd H20 P
37488	5	37849	42404	SPK-RPD	W08GR02643	ICP Metals Analysis, Grd H20 P
37488	15	37849	42404	SAMPLE	W08GR02670	ICP Metals Analysis, Grd H20 P
37488	16	37849	42404	SAMPLE	W08GR02671	ICP Metals Analysis, Grd H20 P

37488	17	37849	42404	SAMPLE	W08GR02672	ICP Metals Analysis, Grd H20 P
37488	18	37849	42404	SAMPLE	W08GR02673	ICP Metals Analysis, Grd H20 P
37488	19	37849	42404	SAMPLE	W08GR02674	ICP Metals Analysis, Grd H20 P
37488	20	37849	42404	SAMPLE	W08GR02675	ICP Metals Analysis, Grd H20 P
37488	21	37849	42404	SAMPLE	W08GR02676	ICP Metals Analysis, Grd H20 P
37488	22	37849	42404	SAMPLE	W08GR02677	ICP Metals Analysis, Grd H20 P
37488	23	37849	42404	SAMPLE	W08GR02678	ICP Metals Analysis, Grd H20 P
37488	24	37849	42404	SAMPLE	W08GR02679	ICP Metals Analysis, Grd H20 P
37477	1	37850	42406	BLANK		ICP Metals Analysis, Grd H20 P
37477	2	37850	42406	LCS		ICP Metals Analysis, Grd H20 P
37477	4	37850	42406	MS	W08GR02680	ICP Metals Analysis, Grd H20 P
37477	5	37850	42406	MSD	W08GR02680	ICP Metals Analysis, Grd H20 P
37477	3	37850	42406	SAMPLE	W08GR02680	ICP Metals Analysis, Grd H20 P
37477	5	37850	42406	SPK-RPD	W08GR02680	ICP Metals Analysis, Grd H20 P
37477	6	37850	42406	SAMPLE	W08GR02681	ICP Metals Analysis, Grd H20 P
37477	7	37850	42406	SAMPLE	W08GR02682	ICP Metals Analysis, Grd H20 P
37477	8	37850	42406	SAMPLE	W08GR02683	ICP Metals Analysis, Grd H20 P
37477	9	37850	42406	SAMPLE	W08GR02684	ICP Metals Analysis, Grd H20 P

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 Emmission 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: 16-aug-2008
Report #: WSCF20081490
Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02670
Client ID: B1WC21

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.464	mg/L			20.00	0.46		07/20/08
Chloride	16887-00-6	LA-533-410	DN	284	mg/L			20.00	0.94		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.855	mg/L			20.00	0.24		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	1.22e + 03	mg/L			1.01e + 002	6.1		07/20/08
Sulfate	14808-79-8	LA-533-410	BD	18.3	mg/L			20.00	2.6		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e + 02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e + 02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	7.80e + 03	ug/L			5.00	2.5e + 02		08/13/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	8.49e + 03	ug/L			5.00	8.5e + 02		08/13/08
Silver	7440-22-4	LA-505-411	BD	61.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	2.34e + 06	ug/L			5.00	2.6e + 02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e + 02		08/13/08
Barium	7440-39-3	LA-505-411	BD	36.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

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

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

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

X - Other flags/notes described in the comments/narrative (inorg)

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02670
Client ID: B1WC21

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.91e+05	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	2.79e+03	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(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 # W08GR02671
Client ID: B1WC51

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.464	mg/L			20.00	0.46		07/20/08
Chloride	16887-00-6	LA-533-410	DN	256	mg/L			20.00	0.94		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	799	mg/L			1.01e +002	6.1		07/20/08
Sulfate	14808-79-8	LA-533-410	DU	< 2.64	mg/L			20.00	2.6		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e +02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	6.50e +03	ug/L			5.00	2.5e +02		08/13/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	8.36e +03	ug/L			5.00	8.5e +02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	2.13e +06	ug/L			5.00	2.6e +02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

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

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

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

X - Other flags/notes described in the comments/narrative (inorg)

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02671
Client ID: B1WC51

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.16e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	296	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(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 # W08GR02672
Client ID: B1WC52

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.464	mg/L			20.00	0.46		07/20/08
Chloride	16887-00-6	LA-533-410	DN	260	mg/L			20.00	0.94		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	DEX	690	mg/L			1.01e+002	6.1		07/20/08
Sulfate	14808-79-8	LA-533-410	DU	< 2.64	mg/L			20.00	2.6		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	6.52e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	1.40e+04	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	2.15e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(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 # W08GR02672
Client ID: B1WC52

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.64e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	730	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative (inorg)

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors (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 # W08GR02673
Client ID: B1WC53

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	DN	193	mg/L			10.00	0.47		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	435	mg/L			51.00	3.1		07/20/08
Sulfate	14808-79-8	LA-533-410	D	27.0	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	BD	605	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	6.70e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	1.12e+04	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.68e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	BD	135	ug/L			5.00	45		08/13/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(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 # W08GR02673
Client ID: B1WC53

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	3.36e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	857	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02674
Client ID: B1WC54

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.464	mg/L			20.00	0.46		07/20/08
Chloride	16887-00-6	LA-533-410	D	233	mg/L			20.00	0.94		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	804	mg/L			1.01e +002	6.1		07/20/08
Sulfate	14808-79-8	LA-533-410	BD	3.04	mg/L			20.00	2.6		07/20/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		08/13/08
Iron	7439-89-6	LA-505-411	BD	591	ug/L			5.00	1.2e +02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	1.44e +04	ug/L			5.00	2.5e +02		08/13/08
Manganese	7439-96-5	LA-505-411	D	3.25e +03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	BD	32.6	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	8.30e +03	ug/L			5.00	8.5e +02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	2.00e +06	ug/L			5.00	2.6e +02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		08/13/08
Barium	7440-39-3	LA-505-411	BD	23.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02674
Client ID: B1WC54

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.01e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	292	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative (inorg)

D - Analyte was identified at a secondary dilution factor

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

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02675
Client ID: B1WC55

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.464	mg/L			20.00	0.46		07/20/08
Chloride	16887-00-6	LA-533-410	D	257	mg/L			20.00	0.94		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	913	mg/L			1.01e+002	6.1		07/20/08
Sulfate	14808-79-8	LA-533-410	BD	4.95	mg/L			20.00	2.6		07/20/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	BD	501	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	1.24e+04	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	2.71e+03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	7.41e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.73e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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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)

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X - Other flags/notes described in the comments/narrative(inorg)

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

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

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

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02675
Client ID: B1WC55

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.73e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	243	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor
 E - Analyte is an estimate, has potentially larger errors(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 # W08GR02676
Client ID: B1WC56

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	D	188	mg/L			10.00	0.47		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	450	mg/L			51.00	3.1		07/20/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	D	1.05e+03	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	7.31e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	652	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	5.60e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.32e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

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* - Indicates results that have NOT been validated;

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02676
Client ID: B1WC56

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.21e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	150	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02677
Client ID: B1WC57

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	DN	126	mg/L			10.00	0.47		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	107	mg/L			10.00	0.61		07/20/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	BD	553	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	7.16e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	1.57e+03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	3.58e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	5.55e+05	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02677
Client ID: B1WC57

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	3.19e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	150	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

MDL=Minimum Detection Limit

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TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02678
Client ID: B1WC58

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	D	225	mg/L			51.00	2.4		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	302	mg/L			51.00	3.1		07/20/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	BD	183	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	3.94e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	BD	23.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	4.48e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.27e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02678
Client ID: B1WC58

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.10e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	188	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02679
Client ID: B1WC60

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/21/08
Chloride	16887-00-6	LA-533-410	D	98.4	mg/L			10.00	0.47		07/21/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/21/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/21/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	238	mg/L			51.00	3.1		07/21/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/21/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	D	1.70e+03	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	D	1.10e+04	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	1.68e+03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	D	5.43e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	7.30e+05	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	BD	99.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02679
Client ID: B1WC60

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	4.57e +04	ug/L			5.00	3.6e +02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	D	151	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		08/13/08

MDL=Minimum Detection Limit

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TP Err=Total Propagated Error

DF=Dilution Factor

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02680
Client ID: B1WC61

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/21/08
Chloride	16887-00-6	LA-533-410	D	135	mg/L			10.00	0.47		07/21/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/21/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/21/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	380	mg/L			51.00	3.1		07/21/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/21/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	DN	7.26e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	BD	30.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	DN	2.61e+04	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.95e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	BD	39.3	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(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 # W08GR02680
Client ID: B1WC61

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.79e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	DN	776	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor (inorg)
 N - Spike sample recovery is outside control limits. (inorg)
 X - Other flags/notes described in the comments/narrative (inorg)

D - Analyte was identified at a secondary dilution factor
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Report WGPP/ver. 5.2
Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02681
Client ID: B1WC62

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/21/08
Chloride	16887-00-6	LA-533-410	D	125	mg/L			10.00	0.47		07/21/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/21/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/21/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	172	mg/L			10.00	0.61		07/21/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/21/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	BD	550	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	DN	1.34e+04	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	1.04e+03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	DN	5.48e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	9.52e+05	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	BD	24.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	BD	20.3	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	BD	22.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

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D - Analyte was identified at a secondary dilution factor

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02681
Client ID: B1WC62

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.92e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	DN	175	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
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 N - Spike sample recovery is outside control limits. (inorg)
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Report WGPP/ver. 5.2
Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02682
Client ID: B1WC63

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/21/08
Chloride	16887-00-6	LA-533-410	D	211	mg/L			10.00	0.47		07/21/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/21/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/21/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	518	mg/L			51.00	3.1		07/21/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		07/21/08
ICP Metals Analysis, Grd H20 P Prep											08/02/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	D	701	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	DN	7.42e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	1.04e+03	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	DN	5.48e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	1.33e+06	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02682
Client ID: B1WC63

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.35e +04	ug/L			5.00	3.6e +02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	DN	135	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		08/13/08

MDL=Minimum Detection Limit

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TP Err=Total Propagated Error

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02683
Client ID: B1WC64

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	DNX	9.56	mg/L			10.00	0.47		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	15.9	mg/L			10.00	0.61		07/20/08
Sulfate	14808-79-8	LA-533-410	BD	7.63	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	DN	4.44e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	D	409	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	DN	1.97e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	6.15e+04	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/13/08

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RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02683
Client ID: B1WC64

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.47e+04	ug/L			5.00	3.6e+02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	DN	115	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02684
Client ID: B1WC65

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

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	< 0.232	mg/L			10.00	0.23		07/20/08
Chloride	16887-00-6	LA-533-410	BD	0.977	mg/L			10.00	0.47		07/20/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		07/20/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		07/20/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.606	mg/L			10.00	0.61		07/20/08
Sulfate	14808-79-8	LA-533-410	BD	6.94	mg/L			10.00	1.3		07/20/08
ICP Metals Analysis, Grd H2O P Prep											08/02/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/13/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/13/08
Magnesium	7439-95-4	LA-505-411	DN	3.92e+03	ug/L			5.00	2.5e+02		08/13/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Potassium	7440-09-7	LA-505-411	DN	1.15e+03	ug/L			5.00	8.5e+02		08/13/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Sodium	7440-23-5	LA-505-411	DX	3.35e+03	ug/L			5.00	2.6e+02		08/13/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/13/08
Barium	7440-39-3	LA-505-411	BD	28.0	ug/L			5.00	20		08/13/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/13/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/13/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/13/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/13/08
Zinc	7440-66-6	LA-505-411	BD	59.9	ug/L			5.00	45		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

D - Analyte was identified at a secondary dilution factor

E - Analyte is an estimate, has potentially larger errors(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 # W08GR02684
Client ID: B1WC65

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081490
Department: Inorganic
Sampled: 07/17/08
Received: 07/18/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.92e + 04	ug/L			5.00	3.6e + 02		08/13/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/13/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/13/08
Strontium	7440-24-6	LA-505-411	BDN	87.2	ug/L			5.00	20		08/13/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/13/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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

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

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

X - Other flags/notes described in the comments/narrative(inorg)

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

D - Analyte was identified at a secondary dilution factor

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/17/08
 Receive Date: 07/18/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	0.9906		RPD			1.362	20.000		07/20/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	07/20/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	07/20/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	07/20/08
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	07/20/08
DUP	Sulfate	14808-79-8	6.7546		RPD			2.767	20.000		07/20/08
MS	Chloride	16887-00-6	0.99425	99.925	% Recov	80.000	120.000				07/20/08
MS	Fluoride	16984-48-8	0.49109	99.613	% Recov	80.000	120.000				07/20/08
MS	Nitrogen in Nitrite	NO2-N	0.49463	100.535	% Recov	80.000	120.000				07/20/08
MS	Nitrogen in Nitrate	NO3-N	0.46325	103.868	% Recov	80.000	120.000				07/20/08
MS	Phosphate (P) by IC	PO4-P	0.80222	83.827	% Recov	80.000	120.000				07/20/08
MS	Sulfate	14808-79-8	2.01365	102.737	% Recov	80.000	120.000				07/20/08
MSD	Chloride	16887-00-6	1.00355	100.859	% Recov	80.000	120.000				07/20/08
MSD	Fluoride	16984-48-8	0.48958	99.306	% Recov	80.000	120.000				07/20/08
MSD	Nitrogen in Nitrite	NO2-N	0.51232	104.130	% Recov	80.000	120.000				07/20/08
MSD	Nitrogen in Nitrate	NO3-N	0.46529	104.325	% Recov	80.000	120.000				07/20/08
MSD	Phosphate (P) by IC	PO4-P	0.87558	91.492	% Recov	80.000	120.000				07/20/08
MSD	Sulfate	14808-79-8	2.11685	108.003	% Recov	80.000	120.000				07/20/08
SPK-RPD	Chloride	16887-00-6	100.859		RPD			0.930	20.000		07/20/08
SPK-RPD	Fluoride	16984-48-8	99.306		RPD			0.309	20.000		07/20/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	104.130		RPD			3.513	20.000		07/20/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	104.325		RPD			0.439	20.000		07/20/08
SPK-RPD	Phosphate (P) by IC	PO4-P	91.492		RPD			8.744	20.000		07/20/08
SPK-RPD	Sulfate	14808-79-8	108.003		RPD			4.998	20.000		07/20/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 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	<4.69e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	07/20/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	07/20/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	07/20/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	07/20/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	07/20/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	07/20/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/20/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/20/08
LCS	Chloride	16887-00-6	194.9299	96.980	% Recov	80.000	120.000				07/20/08
LCS	Fluoride	16984-48-8	99.3453	99.744	% Recov	80.000	120.000				07/20/08
LCS	Nitrogen in Nitrite	NO2-N	99.7056	100.307	% Recov	80.000	120.000				07/20/08
LCS	Nitrogen in Nitrate	NO3-N	93.3552	103.613	% Recov	80.000	120.000				07/20/08
LCS	Phosphate (P) by IC	PO4-P	177.154	91.600	% Recov	80.000	120.000				07/20/08
LCS	Sulfate	14808-79-8	382.2748	96.534	% Recov	80.000	120.000				07/20/08

Lab ID: W08GR02683

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	7.6996		RPD			21.591	20.000 •		07/20/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	07/20/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	07/20/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	07/20/08
DUP	Phosphate (P) by IC	PO4-P	15.6054		RPD			1.815	20.000		07/20/08
DUP	Sulfate	14808-79-8	7.6831		RPD			0.635	20.000		07/20/08
MS	Chloride	16887-00-6	0.76352	76.736	% Recov	80.000	120.000			•	07/20/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/17/08
 Receive Date: 07/18/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Fluoride	16984-48-8	0.43373	87.978	% Recov	80.000	120.000				07/20/08
MS	Nitrogen in Nitrite	NO2-N	0.48134	97.833	% Recov	80.000	120.000				07/20/08
MS	Nitrogen in Nitrate	NO3-N	0.44058	98.785	% Recov	80.000	120.000				07/20/08
MS	Phosphate (P) by IC	PO4-P	0.96985	101.343	% Recov	80.000	120.000				07/20/08
MS	Sulfate	14808-79-8	1.90725	97.309	% Recov	80.000	120.000				07/20/08
MSD	Chloride	16887-00-6	0.76894	77.280	% Recov	80.000	120.000				07/20/08
MSD	Fluoride	16984-48-8	0.41793	84.773	% Recov	80.000	120.000				07/20/08
MSD	Nitrogen in Nitrite	NO2-N	0.47487	96.518	% Recov	80.000	120.000				07/20/08
MSD	Nitrogen in Nitrate	NO3-N	0.44753	100.343	% Recov	80.000	120.000				07/20/08
MSD	Phosphate (P) by IC	PO4-P	0.88969	92.967	% Recov	80.000	120.000				07/20/08
MSD	Sulfate	14808-79-8	1.9422	99.092	% Recov	80.000	120.000				07/20/08
SPK-RPD	Chloride	16887-00-6	77.280		RPD			0.706	20.000		07/20/08
SPK-RPD	Fluoride	16984-48-8	84.773		RPD			3.711	20.000		07/20/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	96.518		RPD			1.353	20.000		07/20/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	100.343		RPD			1.565	20.000		07/20/08
SPK-RPD	Phosphate (P) by IC	PO4-P	92.967		RPD			8.621	20.000		07/20/08
SPK-RPD	Sulfate	14808-79-8	99.092		RPD			1.816	20.000		07/20/08

BATCH QC

BLANK	Chloride	16887-00-6	< 4.69e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Chloride	16887-00-6	< 4.69e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	07/20/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	07/20/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	07/20/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	07/20/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	07/20/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	07/20/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	07/20/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	07/20/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 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
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/20/08
LCS	Chloride	16887-00-6	198.3028	98.658	% Recov	80.000	120.000				07/20/08
LCS	Fluoride	16984-48-8	107.2128	107.643	% Recov	80.000	120.000				07/20/08
LCS	Nitrogen in Nitrite	NO2-N	99.4937	100.094	% Recov	80.000	120.000				07/20/08
LCS	Nitrogen in Nitrate	NO3-N	91.682	101.756	% Recov	80.000	120.000				07/20/08
LCS	Phosphate (P) by IC	PO4-P	191.9954	99.274	% Recov	80.000	120.000				07/20/08
LCS	Sulfate	14808-79-8	395.2061	99.800	% Recov	80.000	120.000				07/20/08

Lab ID: W08GR02566
 BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	1.1119		RPD			6.508	20.000		07/21/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	07/21/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	07/21/08
DUP	Nitrogen in Nitrate	NO3-N	0.1761		RPD			9.768	20.000		07/21/08
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	07/21/08
DUP	Sulfate	14808-79-8	7.2453		RPD			0.978	20.000		07/21/08
MS	Chloride	16887-00-6	0.97946	98.438	% Recov	80.000	120.000				07/21/08
MS	Fluoride	16984-48-8	0.50512	102.458	% Recov	80.000	120.000				07/21/08
MS	Nitrogen in Nitrite	NO2-N	0.47421	96.384	% Recov	80.000	120.000				07/21/08
MS	Nitrogen in Nitrate	NO3-N	0.44136	98.960	% Recov	80.000	120.000				07/21/08
MS	Phosphate (P) by IC	PO4-P	0.89729	93.761	% Recov	80.000	120.000				07/21/08
MS	Sulfate	14808-79-8	1.92797	98.366	% Recov	80.000	120.000				07/21/08
MSD	Chloride	16887-00-6	0.95294	95.773	% Recov	80.000	120.000				07/21/08
MSD	Fluoride	16984-48-8	0.47674	96.702	% Recov	80.000	120.000				07/21/08
MSD	Nitrogen in Nitrite	NO2-N	0.48196	97.959	% Recov	80.000	120.000				07/21/08
MSD	Nitrogen in Nitrate	NO3-N	0.43875	98.374	% Recov	80.000	120.000				07/21/08
MSD	Phosphate (P) by IC	PO4-P	0.90462	94.527	% Recov	80.000	120.000				07/21/08
MSD	Sulfate	14808-79-8	1.93137	98.539	% Recov	80.000	120.000				07/21/08
SPK-RPD	Chloride	16887-00-6	95.773		RPD			2.744	20.000		07/21/08
SPK-RPD	Fluoride	16984-48-8	96.702		RPD			5.780	20.000		07/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/13/08
 Receive Date: 07/14/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Nitrogen in Nitrite	NO2-N	97.959		RPD			1.621	20.000		07/21/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	98.374		RPD			0.594	20.000		07/21/08
SPK-RPD	Phosphate (P) by IC	PO4-P	94.527		RPD			0.814	20.000		07/21/08
SPK-RPD	Sulfate	14808-79-8	98.539		RPD			0.176	20.000		07/21/08
Lab ID: W08GR02711											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	1.092		RPD			1.616	20.000		07/21/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	07/21/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	07/21/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	07/21/08
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	07/21/08
DUP	Sulfate	14808-79-8	7.3874		RPD			2.295	20.000		07/21/08
MS	Chloride	16887-00-6	0.96054	96.537	% Recov	80.000	120.000				07/21/08
MS	Fluoride	16984-48-8	0.48644	98.669	% Recov	80.000	120.000				07/21/08
MS	Nitrogen in Nitrite	NO2-N	0.484	98.374	% Recov	80.000	120.000				07/21/08
MS	Nitrogen in Nitrate	NO3-N	0.45292	101.552	% Recov	80.000	120.000				07/21/08
MS	Phosphate (P) by IC	PO4-P	0.89237	93.247	% Recov	80.000	120.000				07/21/08
MS	Sulfate	14808-79-8	1.928	98.367	% Recov	80.000	120.000				07/21/08
MSD	Chloride	16887-00-6	0.95375	95.854	% Recov	80.000	120.000				07/21/08
MSD	Fluoride	16984-48-8	0.48444	98.264	% Recov	80.000	120.000				07/21/08
MSD	Nitrogen in Nitrite	NO2-N	0.48344	98.260	% Recov	80.000	120.000				07/21/08
MSD	Nitrogen in Nitrate	NO3-N	0.44488	99.749	% Recov	80.000	120.000				07/21/08
MSD	Phosphate (P) by IC	PO4-P	0.8752	91.452	% Recov	80.000	120.000				07/21/08
MSD	Sulfate	14808-79-8	1.91936	97.927	% Recov	80.000	120.000				07/21/08
SPK-RPD	Chloride	16887-00-6	95.854		RPD			0.710	20.000		07/21/08
SPK-RPD	Fluoride	16984-48-8	98.264		RPD			0.411	20.000		07/21/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.260		RPD			0.116	20.000		07/21/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	99.749		RPD			1.791	20.000		07/21/08
SPK-RPD	Phosphate (P) by IC	PO4-P	91.452		RPD			1.944	20.000		07/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/17/08
 Receive Date: 07/18/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Sulfate	14808-79-8	97.927		RPD			0.448	20.000		07/21/08
BATCH QC											
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	07/21/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	07/21/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	07/21/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	07/21/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	07/21/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	07/21/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	07/21/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	07/21/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	07/21/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	07/21/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/21/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/21/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	07/21/08
LCS	Chloride	16887-00-6	194.4113	96.722	% Recov	80.000	120.000				07/21/08
LCS	Chloride	16887-00-6	196.0556	97.540	% Recov	80.000	120.000				07/21/08
LCS	Fluoride	16984-48-8	104.505	104.925	% Recov	80.000	120.000				07/21/08
LCS	Fluoride	16984-48-8	102.5731	102.985	% Recov	80.000	120.000				07/21/08
LCS	Nitrogen in Nitrite	NO2-N	99.7227	100.325	% Recov	80.000	120.000				07/21/08
LCS	Nitrogen in Nitrite	NO2-N	98.8252	99.422	% Recov	80.000	120.000				07/21/08
LCS	Nitrogen in Nitrate	NO3-N	91.2363	101.261	% Recov	80.000	120.000				07/21/08
LCS	Nitrogen in Nitrate	NO3-N	91.2077	101.229	% Recov	80.000	120.000				07/21/08
LCS	Phosphate (P) by IC	PO4-P	187.678	97.041	% Recov	80.000	120.000				07/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
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	Phosphate (P) by IC	PO4-P	187.7919	97.100	% Recov	80.000	120.000				07/21/08
LCS	Sulfate	14808-79-8	391.3156	98.817	% Recov	80.000	120.000				07/21/08
LCS	Sulfate	14808-79-8	387.1871	97.775	% Recov	80.000	120.000				07/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/15/08
 Receive Date: 07/17/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02643 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	4920	98.400	% Recov	75.000	125.000				08/13/08
MS	Aluminum	7429-90-5	4841	96.820	% Recov	75.000	125.000				08/13/08
MS	Arsenic	7440-38-2	5250	105.000	% Recov	75.000	125.000				08/13/08
MS	Barium	7440-39-3	2490	99.600	% Recov	75.000	125.000				08/13/08
MS	Calcium	7440-70-2	5560	111.200	% Recov	75.000	125.000				08/13/08
MS	Cadmium	7440-43-9	5265	105.300	% Recov	75.000	125.000				08/13/08
MS	Cobalt	7440-48-4	5261	105.220	% Recov	75.000	125.000				08/13/08
MS	Chromium	7440-47-3	5299	105.980	% Recov	75.000	125.000				08/13/08
MS	Copper	7440-50-8	4820	96.400	% Recov	75.000	125.000				08/13/08
MS	Iron	7439-89-6	5193	103.860	% Recov	75.000	125.000				08/13/08
MS	Potassium	7440-09-7	47300	94.600	% Recov	75.000	125.000				08/13/08
MS	Magnesium	7439-95-4	4527	90.540	% Recov	75.000	125.000				08/13/08
MS	Manganese	7439-96-5	5340	106.800	% Recov	75.000	125.000				08/13/08
MS	Molybdenum	7439-98-7	4641	92.820	% Recov	70.000	130.000				08/13/08
MS	Sodium	7440-23-5	-54000	-1080.000	% Recov	75.000	125.000				08/13/08
MS	Nickel	7440-02-0	5127	102.540	% Recov	75.000	125.000				08/13/08
MS	Lead	7439-92-1	5150	103.000	% Recov	75.000	125.000				08/13/08
MS	Antimony	7440-36-0	5022	100.440	% Recov	75.000	125.000				08/13/08
MS	Strontium	7440-24-6	2542.6	101.704	% Recov	75.000	125.000				08/13/08
MS	Vanadium	7440-62-2	5120	102.400	% Recov	75.000	125.000				08/13/08
MS	Zinc	7440-66-6	5236	104.720	% Recov	75.000	125.000				08/13/08
MSD	Silver	7440-22-4	4900	98.000	% Recov	75.000	125.000				08/13/08
MSD	Aluminum	7429-90-5	4795	95.900	% Recov	75.000	125.000				08/13/08
MSD	Arsenic	7440-38-2	5250	105.000	% Recov	75.000	125.000				08/13/08
MSD	Barium	7440-39-3	2490	99.600	% Recov	75.000	125.000				08/13/08
MSD	Calcium	7440-70-2	40340	806.800	% Recov	75.000	125.000				08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/15/08
 Receive Date: 07/17/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	5167	103.340	% Recov	75.000	125.000				08/13/08
MSD	Cobalt	7440-48-4	5157	103.140	% Recov	75.000	125.000				08/13/08
MSD	Chromium	7440-47-3	5168	103.360	% Recov	75.000	125.000				08/13/08
MSD	Copper	7440-50-8	4820	96.400	% Recov	75.000	125.000				08/13/08
MSD	Iron	7439-89-6	5109	102.180	% Recov	75.000	125.000				08/13/08
MSD	Potassium	7440-09-7	47380	94.760	% Recov	75.000	125.000				08/13/08
MSD	Magnesium	7439-95-4	5067	101.340	% Recov	75.000	125.000				08/13/08
MSD	Manganese	7439-96-5	5240	104.800	% Recov	75.000	125.000				08/13/08
MSD	Molybdenum	7439-98-7	4381	87.620	% Recov	75.000	125.000				08/13/08
MSD	Sodium	7440-23-5	-12000	-240.000	% Recov	75.000	125.000				08/13/08
MSD	Nickel	7440-02-0	5018	100.360	% Recov	75.000	125.000				08/13/08
MSD	Lead	7439-92-1	5160	103.200	% Recov	75.000	125.000				08/13/08
MSD	Antimony	7440-36-0	4918	98.360	% Recov	75.000	125.000				08/13/08
MSD	Strontium	7440-24-6	3088.6	123.544	% Recov	75.000	125.000				08/13/08
MSD	Vanadium	7440-62-2	5030	100.600	% Recov	75.000	125.000				08/13/08
MSD	Zinc	7440-66-6	5149	102.980	% Recov	75.000	125.000				08/13/08
SPK-RPD	Silver	7440-22-4	98.000		RPD			0.407	20.000		08/13/08
SPK-RPD	Aluminum	7429-90-5	95.900		RPD			0.955	20.000		08/13/08
SPK-RPD	Arsenic	7440-38-2	105.000		RPD			0.000	20.000		08/13/08
SPK-RPD	Barium	7440-39-3	99.600		RPD			0.000	20.000		08/13/08
SPK-RPD	Calcium	7440-70-2	806.800		RPD			151.547	20.000		08/13/08
SPK-RPD	Cadmium	7440-43-9	103.340		RPD			1.879	20.000		08/13/08
SPK-RPD	Cobalt	7440-48-4	103.140		RPD			1.997	20.000		08/13/08
SPK-RPD	Chromium	7440-47-3	103.360		RPD			2.503	20.000		08/13/08
SPK-RPD	Copper	7440-50-8	96.400		RPD			0.000	20.000		08/13/08
SPK-RPD	Iron	7439-89-6	102.180		RPD			1.631	20.000		08/13/08
SPK-RPD	Potassium	7440-09-7	94.760		RPD			0.169	20.000		08/13/08
SPK-RPD	Magnesium	7439-95-4	101.340		RPD			11.257	20.000		08/13/08
SPK-RPD	Manganese	7439-96-5	104.800		RPD			1.890	20.000		08/13/08
SPK-RPD	Molybdenum	7439-98-7	87.620		RPD			5.764	20.000		08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H20 P

Sample Date: 07/15/08
 Receive Date: 07/17/08

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	-240.000		RPD			-127.273	20.000 *		08/13/08
SPK-RPD	Nickel	7440-02-0	100.360		RPD			2.149	20.000		08/13/08
SPK-RPD	Lead	7439-92-1	103.200		RPD			0.194	20.000		08/13/08
SPK-RPD	Antimony	7440-36-0	98.360		RPD			2.093	20.000		08/13/08
SPK-RPD	Strontium	7440-24-6	123.544		RPD			19.392	20.000		08/13/08
SPK-RPD	Vanadium	7440-62-2	100.600		RPD			1.773	20.000		08/13/08
SPK-RPD	Zinc	7440-66-6	102.980		RPD			1.675	20.000		08/13/08
BATCH QC											
BLANK	Silver	7440-22-4	<5	n/a	ug/L					U	08/13/08
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	08/13/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	08/13/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	08/13/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	08/13/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	08/13/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	08/13/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	08/13/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	08/13/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	08/13/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	08/13/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	08/13/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	08/13/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	08/13/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	08/13/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	08/13/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	08/13/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	08/13/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	08/13/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	08/13/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Silver	7440-22-4	956	95.600	% Recov	80.000	120.000				08/13/08
LCS	Aluminum	7429-90-5	947.6	94.760	% Recov	80.000	120.000				08/13/08
LCS	Arsenic	7440-38-2	1030	103.000	% Recov	80.000	120.000				08/13/08
LCS	Barium	7440-39-3	466	93.200	% Recov	80.000	120.000				08/13/08
LCS	Calcium	7440-70-2	1143	114.300	% Recov	80.000	120.000				08/13/08
LCS	Cadmium	7440-43-9	1023	102.300	% Recov	80.000	120.000				08/13/08
LCS	Cobalt	7440-48-4	1047	104.700	% Recov	80.000	120.000				08/13/08
LCS	Chromium	7440-47-3	997.9	99.790	% Recov	80.000	120.000				08/13/08
LCS	Copper	7440-50-8	972	97.200	% Recov	80.000	120.000				08/13/08
LCS	Iron	7439-89-6	981.1	98.110	% Recov	80.000	120.000				08/13/08
LCS	Potassium	7440-09-7	9914	99.140	% Recov	80.000	120.000				08/13/08
LCS	Magnesium	7439-95-4	958.7	95.870	% Recov	80.000	120.000				08/13/08
LCS	Manganese	7439-96-5	1000	100.000	% Recov	80.000	120.000				08/13/08
LCS	Molybdenum	7439-98-7	1023	102.300	% Recov	80.000	120.000				08/13/08
LCS	Sodium	7440-23-5	997	99.700	% Recov	80.000	120.000				08/13/08
LCS	Nickel	7440-02-0	1025	102.500	% Recov	80.000	120.000				08/13/08
LCS	Lead	7439-92-1	1070	107.000	% Recov	80.000	120.000				08/13/08
LCS	Antimony	7440-36-0	1028	102.800	% Recov	80.000	120.000				08/13/08
LCS	Strontium	7440-24-6	480.9	96.180	% Recov	80.000	120.000				08/13/08
LCS	Vanadium	7440-62-2	975	97.500	% Recov	80.000	120.000				08/13/08
LCS	Zinc	7440-66-6	1003	100.300	% Recov	80.000	120.000				08/13/08

Lab ID: W08GR02680
 BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	4890	97.800	% Recov	75.000	125.000				08/13/08
MS	Aluminum	7429-90-5	4867	97.340	% Recov	75.000	125.000				08/13/08
MS	Arsenic	7440-38-2	5160	103.200	% Recov	75.000	125.000				08/13/08
MS	Barium	7440-39-3	2480	99.200	% Recov	75.000	125.000				08/13/08
MS	Calcium	7440-70-2	-12020	-240.400	% Recov	75.000	125.000				08/13/08
MS	Cadmium	7440-43-9	5245	104.900	% Recov	75.000	125.000				08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/17/08
 Receive Date: 07/18/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Cobalt	7440-48-4	5326.7	106.534	% Recov	75.000	125.000				08/13/08
MS	Chromium	7440-47-3	5316	106.320	% Recov	75.000	125.000				08/13/08
MS	Copper	7440-50-8	4820	96.400	% Recov	75.000	125.000				08/13/08
MS	Iron	7439-89-6	5877	117.540	% Recov	75.000	125.000				08/13/08
MS	Potassium	7440-09-7	26600	53.200	% Recov	75.000	125.000		*		08/13/08
MS	Magnesium	7439-95-4	1050	21.000	% Recov	75.000	125.000		*		08/13/08
MS	Manganese	7439-96-5	5850	117.000	% Recov	75.000	125.000				08/13/08
MS	Molybdenum	7439-98-7	5162	103.240	% Recov	70.000	130.000				08/13/08
MS	Sodium	7440-23-5	-933000	-18660.000	% Recov	75.000	125.000		*		08/13/08
MS	Nickel	7440-02-0	5240	104.800	% Recov	75.000	125.000				08/13/08
MS	Lead	7439-92-1	5400	108.000	% Recov	75.000	125.000				08/13/08
MS	Antimony	7440-36-0	5121	102.420	% Recov	75.000	125.000				08/13/08
MS	Strontium	7440-24-6	1829.4	73.176	% Recov	75.000	125.000		*		08/13/08
MS	Vanadium	7440-62-2	5110	102.200	% Recov	75.000	125.000				08/13/08
MS	Zinc	7440-66-6	5259	105.180	% Recov	75.000	125.000				08/13/08
MSD	Silver	7440-22-4	4700	94.000	% Recov	75.000	125.000				08/13/08
MSD	Aluminum	7429-90-5	4671	93.420	% Recov	75.000	125.000				08/13/08
MSD	Arsenic	7440-38-2	4870	97.400	% Recov	75.000	125.000				08/13/08
MSD	Barium	7440-39-3	2410	96.400	% Recov	75.000	125.000				08/13/08
MSD	Calcium	7440-70-2	-11860	-237.200	% Recov	75.000	125.000		*		08/13/08
MSD	Cadmium	7440-43-9	5071	101.420	% Recov	75.000	125.000				08/13/08
MSD	Cobalt	7440-48-4	5200.7	104.014	% Recov	75.000	125.000				08/13/08
MSD	Chromium	7440-47-3	5156	103.120	% Recov	75.000	125.000				08/13/08
MSD	Copper	7440-50-8	4670	93.400	% Recov	75.000	125.000				08/13/08
MSD	Iron	7439-89-6	5713	114.260	% Recov	75.000	125.000				08/13/08
MSD	Potassium	7440-09-7	24610	49.220	% Recov	75.000	125.000		*		08/13/08
MSD	Magnesium	7439-95-4	1010	20.200	% Recov	75.000	125.000		*		08/13/08
MSD	Manganese	7439-96-5	5620	112.400	% Recov	75.000	125.000				08/13/08
MSD	Molybdenum	7439-98-7	6400	128.000	% Recov	75.000	125.000		*		08/13/08
MSD	Sodium	7440-23-5	-900000	-18000.000	% Recov	75.000	125.000		*		08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/17/08
 Receive Date: 07/18/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Nickel	7440-02-0	5075	101.500	% Recov	75.000	125.000				08/13/08
MSD	Lead	7439-92-1	5220	104.400	% Recov	75.000	125.000				08/13/08
MSD	Antimony	7440-36-0	6277	125.540	% Recov	75.000	125.000				08/13/08
MSD	Strontium	7440-24-6	1742.4	69.696	% Recov	75.000	125.000				08/13/08
MSD	Vanadium	7440-62-2	4910	98.200	% Recov	75.000	125.000				08/13/08
MSD	Zinc	7440-66-6	5090	101.800	% Recov	75.000	125.000				08/13/08
SPK-RPD	Silver	7440-22-4	94.000		RPD			3.962	20.000		08/13/08
SPK-RPD	Aluminum	7429-90-5	93.420		RPD			4.110	20.000		08/13/08
SPK-RPD	Arsenic	7440-38-2	97.400		RPD			5.783	20.000		08/13/08
SPK-RPD	Barium	7440-39-3	96.400		RPD			2.863	20.000		08/13/08
SPK-RPD	Calcium	7440-70-2	-237.200		RPD			-1.340	20.000		08/13/08
SPK-RPD	Cadmium	7440-43-9	101.420		RPD			3.373	20.000		08/13/08
SPK-RPD	Cobalt	7440-48-4	104.014		RPD			2.394	20.000		08/13/08
SPK-RPD	Chromium	7440-47-3	103.120		RPD			3.056	20.000		08/13/08
SPK-RPD	Copper	7440-50-8	93.400		RPD			3.161	20.000		08/13/08
SPK-RPD	Iron	7439-89-6	114.260		RPD			2.830	20.000		08/13/08
SPK-RPD	Potassium	7440-09-7	49.220		RPD			7.772	20.000		08/13/08
SPK-RPD	Magnesium	7439-95-4	20.200		RPD			3.883	20.000		08/13/08
SPK-RPD	Manganese	7439-96-5	112.400		RPD			4.010	20.000		08/13/08
SPK-RPD	Molybdenum	7439-98-7	128.000		RPD			21.415	20.000		08/13/08
SPK-RPD	Sodium	7440-23-5	-18000.000		RPD			-3.601	20.000		08/13/08
SPK-RPD	Nickel	7440-02-0	101.500		RPD			3.199	20.000		08/13/08
SPK-RPD	Lead	7439-92-1	104.400		RPD			3.390	20.000		08/13/08
SPK-RPD	Antimony	7440-36-0	125.540		RPD			20.284	20.000		08/13/08
SPK-RPD	Strontium	7440-24-6	69.696		RPD			4.871	20.000		08/13/08
SPK-RPD	Vanadium	7440-62-2	98.200		RPD			3.992	20.000		08/13/08
SPK-RPD	Zinc	7440-66-6	101.800		RPD			3.266	20.000		08/13/08
BATCH QC											
BLANK	Silver	7440-22-4	<5	n/a	ug/L					U	08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	08/13/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	08/13/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	08/13/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	08/13/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	08/13/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	08/13/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	08/13/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	08/13/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	08/13/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	08/13/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	08/13/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	08/13/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	08/13/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	08/13/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	08/13/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	08/13/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	08/13/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	08/13/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	08/13/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	08/13/08
LCS	Silver	7440-22-4	959	95.900	% Recov	80.000	120.000				08/13/08
LCS	Aluminum	7429-90-5	979.2	97.920	% Recov	80.000	120.000				08/13/08
LCS	Arsenic	7440-38-2	1030	103.000	% Recov	80.000	120.000				08/13/08
LCS	Barium	7440-39-3	471	94.200	% Recov	80.000	120.000				08/13/08
LCS	Calcium	7440-70-2	1167	116.700	% Recov	80.000	120.000				08/13/08
LCS	Cadmium	7440-43-9	1033	103.300	% Recov	80.000	120.000				08/13/08
LCS	Cobalt	7440-48-4	1057	105.700	% Recov	80.000	120.000				08/13/08
LCS	Chromium	7440-47-3	1016	101.600	% Recov	80.000	120.000				08/13/08
LCS	Copper	7440-50-8	973	97.300	% Recov	80.000	120.000				08/13/08
LCS	Iron	7439-89-6	1003	100.300	% Recov	80.000	120.000				08/13/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20081490
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Potassium	7440-09-7	9712	97.120	% Recov	80.000	120.000				08/13/08
LCS	Magnesium	7439-95-4	941.5	94.150	% Recov	80.000	120.000				08/13/08
LCS	Manganese	7439-96-5	1020	102.000	% Recov	80.000	120.000				08/13/08
LCS	Molybdenum	7439-98-7	1028	102.800	% Recov	80.000	120.000				08/13/08
LCS	Sodium	7440-23-5	984.7	98.470	% Recov	80.000	120.000				08/13/08
LCS	Nickel	7440-02-0	1037	103.700	% Recov	80.000	120.000				08/13/08
LCS	Lead	7439-92-1	1080	108.000	% Recov	80.000	120.000				08/13/08
LCS	Antimony	7440-36-0	1026	102.600	% Recov	80.000	120.000				08/13/08
LCS	Strontium	7440-24-6	477	95.400	% Recov	80.000	120.000				08/13/08
LCS	Vanadium	7440-62-2	985	98.500	% Recov	80.000	120.000				08/13/08
LCS	Zinc	7440-66-6	1019	101.900	% Recov	80.000	120.000				08/13/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081490
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		IC Anion - Sample hold time missed for sample W08GR02682.DTS IC Anion - MS/MSD recoveries low for chloride in sample W08GR02683; Data N-flagged. DTS IC Anion - Sample W08GR02672: Unknown peak interfering with phosphate result - DTS IC Anion - Sample dup RPD of 21% for chloride in sample W08GR02683; MS/MSD recoveries also low for chloride; MS/MSD recoveries for chloride recalculated using dup result as follows: MS 95.47% and MSD 96.01%. DTS ICP-AES: Sodium, Calcium sample concentrations > 4X spike amounts; Recovery data invalid; X flags Magnesium, Potassium, and Strontium low MS and MSD; Antimony, Molybdenum high MSD; N flags where sample result >MDL B flag used where sample result is less than 5X MDL

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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M4W41-SLF-08-842

ATTACHMENT 5

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
 08/04/08
tsf

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
 Attn: Steve Trent

Customer Code: GPP
 PO#: 122561/ES20
 Group#: 20081490
 Project#: F06-027
 Proj Mgr: Steve Trent E6-35
 Phone: 373-5869

The following samples were received from you on 07/18/08. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08GR02670	B1WC21	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02671	B1WC51	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02672	B1WC52	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02673	B1WC53	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02674	B1WC54	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02675	B1WC55	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02676	B1WC56	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02677	B1WC57	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02678	B1WC58	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02679	B1WC60	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02680	B1WC61	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02681	B1WC62	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02682	B1WC63	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02683	B1WC64	TRENT @GPP6010 @IC-30	Water	07/17/0
W08GR02684	B1WC65	TRENT @GPP6010 @IC-30	Water	07/17/0

Test Acronym Description

Test Acronym	Description
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Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20081490
Project#: F06-027
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography

COLLECTOR TJL	COMPANY CONTACT FABRE, RJ	TELEPHONE NO. 373-2774	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7G	DATA TURNAROUND 15 Days / 30 Days
SAMPLING LOCATION 100NR2 Syn.Apatite Inj.#4 - Skid #2 Samples	PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring		SAF NO. F06-027	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-304-2	ACTUAL SAMPLE DEPTH	COA 122561E520	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization 20081490	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX* A=Air DL=Drum U=Urids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations 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	250mL	120mL					
SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1WC21 W0802670	WATER	7/17/08	1500	✓	✓				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	(1)ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) (Arsenic, Lead, Molybdenum, Strontium) (2)IC A.ions - 300.0 (Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate)	
Joy Tye PC	7/17/08 1522	NK2 Ket I	7/17/08 1522		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
NR2 Tet H1	7/18-08/0945	R HUGUES	7/18/08/0945		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
R HUGUES	7/18-08/1100	TA KHAZIM	7/18/08 1100		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

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

COLLECTOR HUGHES/Tue	COMPANY CONTACT FABRE, RJ	TELEPHONE NO. 373-2774	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7G	DATA TURNAROUND 15 Days / 30 Days
SAMPLING LOCATION 100-NR-2 Inj. #4 Samples (prior to end)	PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring	SAF NO. F06-027	AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO. NR2-778	FIELD LOGBOOK NO. HNF-N-304-2	ACTUAL SAMPLE DEPTH	COA 122561ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.			

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH <2	Cool--4C
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 may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	TYPE OF CONTAINER	P	P
		NO. OF CONTAINER(S)	1	1
		VOLUME	250mL	120mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WC51	2671 WATER	7/17/08	1950	✓	✓
B1WC52	2672 WATER	7/17/08	1920	✓	✓
B1WC53	2673 WATER	7/17/08	1942	✓	✓
B1WC54	2674 WATER	7-17-08	1410	✓	✓
B1WC55	2675 WATER	7-17-08	1355	✓	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Tony R. [Signature]	RECEIVED BY/STORED IN NK2-KCF 1	(1)ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Lead, Molybdenum, Strontium}
RELINQUISHED BY/REMOVED FROM NR2 Rofl / 7-18-08 / 0945	RECEIVED BY/STORED IN K HUGHES [Signature]	(2)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate}
RELINQUISHED BY/REMOVED FROM K HUGHES [Signature]	RECEIVED BY/STORED IN TA PRAZIM [Signature]	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

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

COLLECTOR Hughes / Tare	COMPANY CONTACT FABRE, RJ	TELEPHONE NO. 373-2774	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7G	DATA TURNAROUND 15 Days / 30 Days
SAMPLING LOCATION 100-NR-2 Inj. #4 Samples (prior to end)	PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring		SAF NO. F06-027	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. NR2-775	FIELD LOGBOOK NO. HNF-N-304-2	ACTUAL SAMPLE DEPTH	COA 122561ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations 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	.250mL	.120mL
		SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WC56	2676 WATER	7-17-08	1340	~	-
B1WC57	2677 WATER	7-17-08	2000	-	-
B1WC58	2678 WATER	7-17-08	1327	-	-
B1WC59	WATER	Went Flow			
B1WC60	2679 WATER	7-17-08	1420	-	-

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	(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}	
Tare Re	7/17/08 2015	NR2 Kef 7	7/17/08 2015		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
R2E Re	7-18-08/0945	HUGHES	7-18-08/0945		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
HUGHES	7-18-08/1100	TA FIAZ	7-18-08/1100		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

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

COLLECTOR Hughes / Tve	COMPANY CONTACT FABRE, RJ	TELEPHONE NO. 373-2774	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7G	DATA TURNAROUND 15 Days / 30 Days
SAMPLING LOCATION 100-NR-2 Inj. #4 Samples (prior to end)	PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring		SAF NO. F06-027	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. NR2-778	FIELD LOGBOOK NO. HNF-N-304-2	ACTUAL SAMPLE DEPTH	COA 122561ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	

SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
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MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations 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	250mL	120mL
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WC61	2680 WATER	7-17-08	1350	✓	—
B1WC62	2681 WATER	7-17-08	1345	✓	—
B1WC63	2682 WATER	7-17-08	1400	✓	—
B1WC64	2683 WATER	7-17-08	1405	✓	—
B1WC65	2684 WATER	7/17/08	1920	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Tve	DATE/TIME 7/17/08 2015	RECEIVED BY/STORED IN NR2	DATE/TIME 7/17/08 2015	(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}
RELINQUISHED BY/REMOVED FROM NR2	DATE/TIME 7-18-8 / 0945	RECEIVED BY/STORED IN H. HUGHES	DATE/TIME 7-18-08 / 0945	
RELINQUISHED BY/REMOVED FROM H. HUGHES	DATE/TIME 7-18-08 / 1100	RECEIVED BY/STORED IN T. RAZIM	DATE/TIME 7/18/08 1100	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

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