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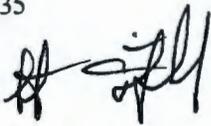
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Fluor Hanford
WSCF Analytical Lab
P.O. Box 1000
Richland, WA 99352
Telephone 373-7495
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FLUOR

Memorandum

To: H. Hampt E6-35 Date: M4W41-SLF-08-752
July 29, 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 WSCF20081295 – 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 WSCF20081295:

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

SLF/grf

Attachments 4

RECEIVED
JAN 29 2009

EDMC

M4W41-SLF-08-752

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081295
Data Deliverable Date: 15-jul-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F06-027	B1VVV9	W08GR01884	WATER
	B1VVW0	W08GR01885	WATER
	B1VVW1	W08GR01886	WATER
	B1VVW2	W08GR01887	WATER
	B1VVW3	W08GR01888	WATER
	B1VVW4	W08GR01889	WATER
	B1VVW5	W08GR01890	WATER
	B1VVW6	W08GR01891	WATER
	B1VVW7	W08GR01892	WATER
	B1VVW8	W08GR01893	WATER
	B1VVW9	W08GR01894	WATER
	B1VVX0	W08GR01895	WATER
	B1VVX1	W08GR01896	WATER
	B1VVX2	W08GR01897	WATER
	B1VVX3	W08GR01898	WATER

M4W41-SLF-08-752

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction

Fifteen (15) S&GRP samples were received at the WSCF Laboratory on June 27, 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 Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

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

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 13 through 14, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – The regulatory hold time requirements were met. A 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):

- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1VVV0, B1VVV8, B1VVT7 (SDG# 20081294, SAF# F06-027); B1W7D7 (SDG# 20081376, SAF# F06-027); B1W853 (SDG# 20081389, SAF# F06-027); and, B1V VW3 of this 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.
- Sulfate (B1VVV9, B1VVX0 and B1VVX1) – Unknown peak interfering with results. Sample results were EX flagged.

All QC controls are within the established limits.

ICP-AES Metals – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank, and Laboratory Control Sample were analyzed with each batch

in this delivery group per the GRP Letter of Instruction. See pages 52 through 59 for QC details. Analytical Note(s):

- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1VUV2 (SDG# (SDG# 20081294, SAF# F06-027) and B1VUX3 of this SDG.
- B1VUV2 – Batch QC
 - Silver contamination detected in the Blank was evaluated and there was no affect on sample results.
 - Sodium – Sample results exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check standard was analyzed to ensure linearity, because sample result was greater than the calibration standard.
 - Calcium - Matrix Spike recovery exceeded established laboratory limits. Sample results were N flagged.
- B1VUX3 – Batch QC
 - Calcium, Iron, Nickel and Zinc contamination detected in the Blank was evaluated and there was no affect on sample results.
 - Calcium and Sodium – Sample results exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check standard was analyzed to ensure linearity, because sample result was greater than the calibration standard.
 - Magnesium - Matrix Spike Duplicate recovery was less than established laboratory limits. Sample results were N flagged.

All other QC controls are within the established limits.

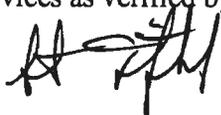
Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF’s radiochemical methods. This group of samples was split into seven batches and assigned separate QC for each batch. A Duplicate, Blank and Laboratory Control Sample were analyzed with each batch in this delivery group. See page 77 for QC details. Analytical Note(s):

- Gross Alpha/Gross Beta – Duplicates were analyzed on samples B1VVT7 (SDG# 20081294, SAF# F06-027) and B1VW2 of this SDG.
- Gross Beta (B1VW2) – Duplicate Relative Percent Difference (RPD) slightly exceeded established laboratory limits. No flags issued.

All other QC controls are within the established limits.

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



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-752

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 71 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *S. Fitzgerald 7/29/08*
Client Services: *P.D. Mio 7/28/2008*

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

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20081295
Report Date: 28-jul-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081295

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36875	2	37295	41639	BLANK		Anions by Ion Chromatography
36875	16	37295	41639	BLANK		Anions by Ion Chromatography
36875	3	37295	41639	LCS		Anions by Ion Chromatography
36875	6	37295	41639	DUP	W08GR01872	Anions by Ion Chromatography
36875	7	37295	41639	MS	W08GR01872	Anions by Ion Chromatography
36875	8	37295	41639	MSD	W08GR01872	Anions by Ion Chromatography
36875	8	37295	41639	SPK-RPD	W08GR01872	Anions by Ion Chromatography
36875	11	37295	41639	SAMPLE	W08GR01889	Anions by Ion Chromatography
36875	12	37295	41639	SAMPLE	W08GR01890	Anions by Ion Chromatography
36875	13	37295	41639	SAMPLE	W08GR01891	Anions by Ion Chromatography
36875	14	37295	41639	SAMPLE	W08GR01897	Anions by Ion Chromatography
36875	15	37295	41639	SAMPLE	W08GR01898	Anions by Ion Chromatography
36883	2	37298	41642	BLANK		Anions by Ion Chromatography
36883	14	37298	41642	BLANK		Anions by Ion Chromatography
36883	3	37298	41642	LCS		Anions by Ion Chromatography
36883	13	37298	41642	SAMPLE	W08GR01884	Anions by Ion Chromatography
36883	8	37298	41642	SAMPLE	W08GR01886	Anions by Ion Chromatography
36883	9	37298	41642	SAMPLE	W08GR01887	Anions by Ion Chromatography
36883	5	37298	41642	DUP	W08GR01888	Anions by Ion Chromatography
36883	6	37298	41642	MS	W08GR01888	Anions by Ion Chromatography
36883	7	37298	41642	MSD	W08GR01888	Anions by Ion Chromatography
36883	4	37298	41642	SAMPLE	W08GR01888	Anions by Ion Chromatography
36883	7	37298	41642	SPK-RPD	W08GR01888	Anions by Ion Chromatography
36883	11	37298	41642	SAMPLE	W08GR01895	Anions by Ion Chromatography
36883	12	37298	41642	SAMPLE	W08GR01896	Anions by Ion Chromatography
36881	2	37300	41643	BLANK		Anions by Ion Chromatography
36881	9	37300	41643	BLANK		Anions by Ion Chromatography
36881	3	37300	41643	LCS		Anions by Ion Chromatography
36881	5	37300	41643	DUP	W08GR01880	Anions by Ion Chromatography
36881	6	37300	41643	MS	W08GR01880	Anions by Ion Chromatography
36881	7	37300	41643	MSD	W08GR01880	Anions by Ion Chromatography
36881	7	37300	41643	SPK-RPD	W08GR01880	Anions by Ion Chromatography
36881	8	37300	41643	SAMPLE	W08GR01885	Anions by Ion Chromatography
36879	2	37297	41651	BLANK		Anions by Ion Chromatography
36879	15	37297	41651	BLANK		Anions by Ion Chromatography
36879	3	37297	41651	LCS		Anions by Ion Chromatography
36879	5	37297	41651	DUP	W08GR01869	Anions by Ion Chromatography
36879	6	37297	41651	MS	W08GR01869	Anions by Ion Chromatography
36879	7	37297	41651	MSD	W08GR01869	Anions by Ion Chromatography
36879	7	37297	41651	SPK-RPD	W08GR01869	Anions by Ion Chromatography
36879	12	37297	41651	SAMPLE	W08GR01892	Anions by Ion Chromatography
36879	13	37297	41651	SAMPLE	W08GR01893	Anions by Ion Chromatography
36879	14	37297	41651	SAMPLE	W08GR01894	Anions by Ion Chromatography
37044	2	37469	41825	BLANK		Anions by Ion Chromatography
37044	14	37469	41825	BLANK		Anions by Ion Chromatography
37044	26	37469	41825	BLANK		Anions by Ion Chromatography
37044	3	37469	41825	LCS		Anions by Ion Chromatography
37044	15	37469	41825	LCS		Anions by Ion Chromatography

36881	8	37469	41825	SAMPLE	W08GR01885	Anions by Ion Chromatography
37044	5	37469	41825	DUP	W08GR02334	Anions by Ion Chromatography
37044	6	37469	41825	MS	W08GR02334	Anions by Ion Chromatography
37044	7	37469	41825	MSD	W08GR02334	Anions by Ion Chromatography
37044	7	37469	41825	SPK-RPD	W08GR02334	Anions by Ion Chromatography
37044	17	37469	41825	DUP	W08GR02369	Anions by Ion Chromatography
37044	18	37469	41825	MS	W08GR02369	Anions by Ion Chromatography
37044	19	37469	41825	MSD	W08GR02369	Anions by Ion Chromatography
37044	19	37469	41825	SPK-RPD	W08GR02369	Anions by Ion Chromatography
37211	1	37638	42005	BLANK		ICP Metals Analysis, Grd H20 P
37211	2	37638	42005	LCS		ICP Metals Analysis, Grd H20 P
37211	4	37638	42005	MS	W08GR01874	ICP Metals Analysis, Grd H20 P
37211	5	37638	42005	MSD	W08GR01874	ICP Metals Analysis, Grd H20 P
37211	5	37638	42005	SPK-RPD	W08GR01874	ICP Metals Analysis, Grd H20 P
37211	15	37638	42005	SAMPLE	W08GR01884	ICP Metals Analysis, Grd H20 P
37211	16	37638	42005	SAMPLE	W08GR01885	ICP Metals Analysis, Grd H20 P
37211	17	37638	42005	SAMPLE	W08GR01886	ICP Metals Analysis, Grd H20 P
37211	18	37638	42005	SAMPLE	W08GR01887	ICP Metals Analysis, Grd H20 P
37211	19	37638	42005	SAMPLE	W08GR01888	ICP Metals Analysis, Grd H20 P
37211	20	37638	42005	SAMPLE	W08GR01889	ICP Metals Analysis, Grd H20 P
37211	21	37638	42005	SAMPLE	W08GR01890	ICP Metals Analysis, Grd H20 P
37211	22	37638	42005	SAMPLE	W08GR01895	ICP Metals Analysis, Grd H20 P
37211	23	37638	42005	SAMPLE	W08GR01896	ICP Metals Analysis, Grd H20 P
37211	24	37638	42005	SAMPLE	W08GR01897	ICP Metals Analysis, Grd H20 P
37212	1	37639	42037	BLANK		ICP Metals Analysis, Grd H20 P
37212	2	37639	42037	LCS		ICP Metals Analysis, Grd H20 P
37212	7	37639	42037	SAMPLE	W08GR01891	ICP Metals Analysis, Grd H20 P
37212	8	37639	42037	SAMPLE	W08GR01892	ICP Metals Analysis, Grd H20 P
37212	9	37639	42037	SAMPLE	W08GR01893	ICP Metals Analysis, Grd H20 P
37212	10	37639	42037	SAMPLE	W08GR01894	ICP Metals Analysis, Grd H20 P
37212	4	37639	42037	MS	W08GR01898	ICP Metals Analysis, Grd H20 P
37212	5	37639	42037	MSD	W08GR01898	ICP Metals Analysis, Grd H20 P
37212	3	37639	42037	SAMPLE	W08GR01898	ICP Metals Analysis, Grd H20 P
37212	5	37639	42037	SPK-RPD	W08GR01898	ICP Metals Analysis, Grd H20 P

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20081295

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36949	1	37372	41757	BLANK		Gross Alpha/Gross Beta (AB32)
36949	2	37372	41757	LCS		Gross Alpha/Gross Beta (AB32)
36949	3	37372	41757	DUP	W08GR01869	Gross Alpha/Gross Beta (AB32)
36949	14	37372	41757	SAMPLE	W08GR01884	Gross Alpha/Gross Beta (AB32)
36949	15	37372	41757	SAMPLE	W08GR01885	Gross Alpha/Gross Beta (AB32)
36949	16	37372	41757	SAMPLE	W08GR01886	Gross Alpha/Gross Beta (AB32)
37030	1	37455	41808	BLANK		Gross Alpha/Gross Beta (AB32)
37030	2	37455	41808	LCS		Gross Alpha/Gross Beta (AB32)
37030	3	37455	41808	DUP	W08GR01887	Gross Alpha/Gross Beta (AB32)
37030	4	37455	41808	SAMPLE	W08GR01887	Gross Alpha/Gross Beta (AB32)
37030	5	37455	41808	SAMPLE	W08GR01888	Gross Alpha/Gross Beta (AB32)
37030	6	37455	41808	SAMPLE	W08GR01889	Gross Alpha/Gross Beta (AB32)
37030	7	37455	41808	SAMPLE	W08GR01890	Gross Alpha/Gross Beta (AB32)
37030	8	37455	41808	SAMPLE	W08GR01891	Gross Alpha/Gross Beta (AB32)
37030	9	37455	41808	SAMPLE	W08GR01892	Gross Alpha/Gross Beta (AB32)
37030	10	37455	41808	SAMPLE	W08GR01893	Gross Alpha/Gross Beta (AB32)
37030	11	37455	41808	SAMPLE	W08GR01894	Gross Alpha/Gross Beta (AB32)
37030	12	37455	41808	SAMPLE	W08GR01895	Gross Alpha/Gross Beta (AB32)
37030	13	37455	41808	SAMPLE	W08GR01896	Gross Alpha/Gross Beta (AB32)
37030	14	37455	41808	SAMPLE	W08GR01897	Gross Alpha/Gross Beta (AB32)
37030	15	37455	41808	SAMPLE	W08GR01898	Gross Alpha/Gross Beta (AB32)

WSCF METHOD REFERENCES REPORT

Department: Inorganic

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

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

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

Report Date: 28-jul-2008

Report#: WSCF20081295

Report WGPPM/5.2

Page 2

WSCF METHOD REFERENCES REPORT

Department: Radiochemistry

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

LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS
HEIS ALPHA_GPC	GROSS ALPHA GPC
HEIS BETA_GPC	GROSS BETA GPC
HEIS SRTOT_SEP_PRECIP_GPC	Protium 89/90

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

Report Date: 28-jul-2008

Report#: WSCF20081295

Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01884
Client ID: B1VVV9

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	5.53	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	65.8	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	DEX	18.0	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	204	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	1.31e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	381	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.40e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	CD	58.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.34e+05	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01884
Client ID: B1VVV9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	6.36e + 03	ug/L			5.00	3.6e + 02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	41.3	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		07/23/08

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
 E - Analyte is an estimate, has potentially larger errors (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

C - The Analyte was found in the Associated Blank. (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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W08GR01885
Client ID: B1VVW0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.420	mg/L			20.00	0.42		06/28/08
Chloride	16887-00-6	LA-533-410	D	160	mg/L			20.00	2.2		06/28/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.198	mg/L			20.00	0.20		06/28/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.720	mg/L			20.00	0.72		06/28/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	645	mg/L			5.01e+002	16		07/10/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.54	mg/L			20.00	1.5		06/28/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	1.37e+03	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	3.79e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	807	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	6.63e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.41e+06	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

C - The Analyte was found in the Associated Blank.(inorg)

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

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

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Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01885
Client ID: B1VVW0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	1.40e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-8	LA-505-411	D	258	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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 # W08GR01886
Client ID: B1VWV1

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	150	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	422	mg/L			51.00	1.6		06/27/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	1.36e+03	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	4.33e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	501	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	5.98e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.08e+06	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01886
Client ID: B1VVW1

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	1.65e + 04	ug/L			5.00	3.6e + 02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	169	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		07/23/08

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

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01887
Client ID: B1VVW2

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.420	mg/L			20.00	0.42		06/27/08
Chloride	16887-00-6	LA-533-410	D	248	mg/L			20.00	2.2		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	BD	1.17	mg/L			20.00	0.20		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.720	mg/L			20.00	0.72		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	1.11e+03	mg/L			1.01e+002	3.2		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	17.0	mg/L			20.00	1.5		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	D	794	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	216	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	2.05e+04	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	120	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.18e+04	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.73e+06	ug/L			10.00	5.1e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	D	104	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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C - The Analyte was found in the Associated Blank.(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 # W08GR01887
Client ID: B1VWV2

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	1.64e+05	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	1.67e+03	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01888
Client ID: B1VWV3

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	18984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	18887-00-6	LA-533-410	BD	2.65	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	23.8	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	D	19.1	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	147	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	994	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	136	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.03e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	7.84e+04	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01888
Client ID: B1VVW3

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	6.51e+03	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	25.9	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
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Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01889
Client ID: B1VWV4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	28.5	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	3.92	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	5.39	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	1.23e+03	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	1.22e+04	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	3.11e+03	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	2.94e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	3.97e+04	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	D	80.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01889
Client ID: B1VVW4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	5.90e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	249	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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

C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
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Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01890
Client ID: B1VW5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	4.07	mg/L			10.00	1.1		08/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	30.8	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	6.10	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		07/23/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e +02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	1.58e +03	ug/L			5.00	2.5e +02		07/23/08
Manganese	7439-96-5	LA-505-411	D	188	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.16e +03	ug/L			5.00	8.5e +02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	7.20e +04	ug/L			5.00	2.6e +02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank. (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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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01890
Client ID: B1VVW5

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	8.48e+03	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	50.2	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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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C - The Analyte was found in the Associated Blank.(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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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01891
Client ID: B1VVW6

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	11.6	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	27.3	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	4.64	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	CD	534	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	DN	2.96e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	787	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	2.47e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	7.51e+04	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01891
Client ID: B1VVW6

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.51e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	58.8	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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 # W08GR01892
Client ID: B1VVW7

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	11.8	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	55.0	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	6.82	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	CD	214	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	DN	2.61e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	618	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	CD	21.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.64e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.20e+05	ug/L			5.00	2.0e+02		07/23/08
Antimony	7440-38-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	D	20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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 # W08GR01892
Client ID: B1VVW7

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.23e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	81.9	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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 # W08GR01893
Client ID: B1VVW8

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	66.0	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	193	mg/L			20.00	0.64		06/27/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e + 02		07/23/08
Iron	7439-89-6	LA-505-411	CD	430	ug/L			5.00	1.2e + 02		07/23/08
Magnesium	7439-95-4	LA-505-411	DN	1.08e + 04	ug/L			5.00	2.5e + 02		07/23/08
Manganese	7439-96-5	LA-505-411	D	995	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	4.10e + 03	ug/L			5.00	8.5e + 02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	4.98e + 05	ug/L			5.00	2.6e + 02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e + 02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01893
Client ID: B1VW8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	2.60e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	137	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01894
Client ID: B1VW9

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	13.5	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	106	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	5.32	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	CD	134	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	DN	1.36e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	603	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.80e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	2.24e+05	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01894
Client ID: B1VVW9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	CD	7.29e+03	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	56.1	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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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C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(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 # W08GR01895
Client ID: B1VVX0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	10.8	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	44.3	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	DEX	18.2	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		07/23/08
Iron	7439-89-6	LA-505-411	D	241	ug/L			5.00	1.2e +02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	3.95e +03	ug/L			5.00	2.5e +02		07/23/08
Manganese	7439-96-5	LA-505-411	D	1.37e +03	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.46e +03	ug/L			5.00	8.5e +02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	9.73e +04	ug/L			5.00	2.6e +02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		07/23/08
Barium	7440-39-3	LA-505-411	D	53.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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)

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C - The Analyte was found in the Associated Blank. (inorg)

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

X - Other flags/notes described in the comments/narrative (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 # W08GR01895
Client ID: B1VVX0

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	1.59e+04	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	58.3	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01896
Client ID: B1VVX1

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	10.0	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	71.4	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	DEX	116	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											07/22/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	D	287	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	1.75e+03	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	558	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.70e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	1.81e+05	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-82-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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
 E - Analyte is an estimate, has potentially larger errors (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

C - The Analyte was found in the Associated Blank. (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;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01896
Client ID: B1VVX1

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	7.91e+03	ug/L			5.00	3.6e+02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	54.2	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		07/23/08

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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* - 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 # W08GR01897
Client ID: B1VVX2

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	BD	2.88	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	18.9	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	D	9.71	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H20 P Prep											
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e + 02		07/23/08
Iron	7439-89-6	LA-505-411	D	297	ug/L			5.00	1.2e + 02		07/23/08
Magnesium	7439-95-4	LA-505-411	D	1.81e + 03	ug/L			5.00	2.5e + 02		07/23/08
Manganese	7439-96-5	LA-505-411	D	328	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.40e + 03	ug/L			5.00	8.5e + 02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	6.89e + 04	ug/L			5.00	2.6e + 02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e + 02		07/23/08
Barium	7440-39-3	LA-505-411	D	22.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01897
Client ID: B1VVX2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DN	1.04e +04	ug/L			5.00	3.6e +02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	58.1	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		07/23/08

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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C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01898
Client ID: B1VVX3

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

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	< 0.210	mg/L			10.00	0.21		06/27/08
Chloride	16887-00-6	LA-533-410	D	20.9	mg/L			10.00	1.1		06/27/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		06/27/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		06/27/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	5.47	mg/L			10.00	0.32		06/27/08
Sulfate	14808-79-8	LA-533-410	BD	5.78	mg/L			10.00	0.77		06/27/08
ICP Metals Analysis, Grd H2O P Prep											07/22/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		07/23/08
Iron	7439-89-6	LA-505-411	CD	354	ug/L			5.00	1.2e+02		07/23/08
Magnesium	7439-95-4	LA-505-411	DN	1.14e+04	ug/L			5.00	2.5e+02		07/23/08
Manganese	7439-96-5	LA-505-411	D	430	ug/L			5.00	20		07/23/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Potassium	7440-09-7	LA-505-411	D	1.93e+03	ug/L			5.00	8.5e+02		07/23/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Sodium	7440-23-5	LA-505-411	D	6.96e+04	ug/L			5.00	2.6e+02		07/23/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		07/23/08
Barium	7440-39-3	LA-505-411	D	46.0	ug/L			5.00	20		07/23/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		07/23/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		07/23/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		07/23/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		07/23/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		07/23/08

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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C - The Analyte was found in the Associated Blank.(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 # W08GR01898
Client ID: B1VVX3

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Inorganic
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.00e +04	ug/L			5.00	3.6e +02		07/23/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		07/23/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		07/23/08
Strontium	7440-24-6	LA-505-411	D	237	ug/L			5.00	20		07/23/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		07/23/08

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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C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 N - Spike sample recovery is outside control limits.(inorg)
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Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01872											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	6.1848		RPD			0.429	20.000		06/27/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	06/27/08
DUP	Phosphate (P) by IC	PO4-P	2.6633		RPD			1.528	20.000		06/27/08
DUP	Sulfate	14808-79-8	8.2741		RPD			0.376	20.000		06/27/08
MS	Chloride	16887-00-6	1.03721	104.242	% Recov	80.000	120.000				06/27/08
MS	Fluoride	16984-48-8	0.46937	95.207	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrite	NO2-N	0.46545	94.804	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrate	NO3-N	0.44654	100.121	% Recov	80.000	120.000				06/27/08
MS	Phosphate (P) by IC	PO4-P	0.9492	99.185	% Recov	80.000	120.000				06/27/08
MS	Sulfate	14808-79-8	1.84147	93.953	% Recov	80.000	120.000				06/27/08
MSD	Chloride	16887-00-6	0.94034	94.507	% Recov	80.000	120.000				06/27/08
MSD	Fluoride	16984-48-8	0.46925	95.183	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrite	NO2-N	0.46629	94.774	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrate	NO3-N	0.45013	100.926	% Recov	80.000	120.000				06/27/08
MSD	Phosphate (P) by IC	PO4-P	0.96374	100.704	% Recov	80.000	120.000				06/27/08
MSD	Sulfate	14808-79-8	1.86102	94.950	% Recov	80.000	120.000				06/27/08
SPK-RPD	Chloride	16887-00-6	94.507		RPD			9.796	20.000		06/27/08
SPK-RPD	Fluoride	16984-48-8	95.183		RPD			0.025	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	94.774		RPD			0.180	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	100.926		RPD			0.801	20.000		06/27/08
SPK-RPD	Phosphate (P) by IC	PO4-P	100.704		RPD			1.520	20.000		06/27/08
SPK-RPD	Sulfate	14808-79-8	94.950		RPD			1.056	20.000		06/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 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	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08
LCS	Chloride	16887-00-6	199.4776	99.243	% Recov	80.000	120.000				06/27/08
LCS	Fluoride	16984-48-8	107.1769	107.607	% Recov	80.000	120.000				06/27/08
LCS	Nitrogen in Nitrite	NO2-N	101.6093	102.223	% Recov	80.000	120.000				06/27/08
LCS	Nitrogen in Nitrate	NO3-N	93.1897	103.429	% Recov	80.000	120.000				06/27/08
LCS	Phosphate (P) by IC	PO4-P	198.3305	102.549	% Recov	80.000	120.000				06/27/08
LCS	Sulfate	14808-79-8	387.1042	97.754	% Recov	80.000	120.000				06/27/08
Lab ID: W08GR01888											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	2.5796		RPD			2.564	20.000		06/27/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	06/27/08
DUP	Phosphate (P) by IC	PO4-P	23.1853		RPD			2.491	20.000		06/27/08
DUP	Sulfate	14808-79-8	18.821		RPD			1.552	20.000		06/27/08
MS	Chloride	16887-00-6	0.95584	96.064	% Recov	80.000	120.000				06/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Fluoride	16984-48-8	0.46198	93.708	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrite	NO2-N	0.47813	97.181	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrate	NO3-N	0.44984	100.861	% Recov	80.000	120.000				06/27/08
MS	Phosphate (P) by IC	PO4-P	1.00654	105.177	% Recov	80.000	120.000				06/27/08
MS	Sulfate	14808-79-8	1.9024	97.061	% Recov	80.000	120.000				06/27/08
MSD	Chloride	16887-00-6	0.95022	95.499	% Recov	80.000	120.000				06/27/08
MSD	Fluoride	16984-48-8	0.43649	88.538	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrite	NO2-N	0.47827	97.209	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrate	NO3-N	0.46606	104.498	% Recov	80.000	120.000				06/27/08
MSD	Phosphate (P) by IC	PO4-P	1.00362	104.871	% Recov	80.000	120.000				06/27/08
MSD	Sulfate	14808-79-8	1.88636	96.243	% Recov	80.000	120.000				06/27/08
SPK-RPD	Chloride	16887-00-6	95.499		RPD			0.590	20.000		06/27/08
SPK-RPD	Fluoride	16984-48-8	88.538		RPD			5.674	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	97.209		RPD			0.029	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	104.498		RPD			3.542	20.000		06/27/08
SPK-RPD	Phosphate (P) by IC	PO4-P	104.871		RPD			0.291	20.000		06/27/08
SPK-RPD	Sulfate	14808-79-8	96.243		RPD			0.846	20.000		06/27/08
BATCH QC											
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 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	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08
LCS	Chloride	16887-00-6	199.2371	99.123	% Recov	80.000	120.000				06/27/08
LCS	Fluoride	16984-48-8	104.9139	105.335	% Recov	80.000	120.000				06/27/08
LCS	Nitrogen in Nitrite	NO2-N	99.1709	99.770	% Recov	80.000	120.000				06/27/08
LCS	Nitrogen in Nitrate	NO3-N	92.5043	102.668	% Recov	80.000	120.000				06/27/08
LCS	Phosphate (P) by IC	PO4-P	207.8064	107.449	% Recov	80.000	120.000				06/27/08
LCS	Sulfate	14808-79-8	401.1131	101.291	% Recov	80.000	120.000				06/27/08

Lab ID: W08GR01880
 BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	<1.1		RPD			n/a	20.000	U	06/28/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	06/28/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	06/28/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	06/28/08
DUP	Sulfate	14808-79-8	5.5078		RPD			3.561	20.000		06/28/08
MS	Chloride	16887-00-6	1.0648	107.015	% Recov	80.000	120.000				06/28/08
MS	Fluoride	16984-48-8	0.4048	82.110	% Recov	80.000	120.000				06/28/08
MS	Nitrogen in Nitrite	NO2-N	0.47932	97.423	% Recov	80.000	120.000				06/28/08
MS	Nitrogen in Nitrate	NO3-N	0.4373	98.049	% Recov	80.000	120.000				06/28/08
MS	Sulfate	14808-79-8	1.95338	99.662	% Recov	80.000	120.000				06/28/08
MSD	Chloride	16887-00-6	1.06524	107.059	% Recov	80.000	120.000				06/28/08
MSD	Fluoride	16984-48-8	0.42081	85.316	% Recov	80.000	120.000				06/28/08
MSD	Nitrogen in Nitrite	NO2-N	0.47488	96.520	% Recov	80.000	120.000				06/28/08
MSD	Nitrogen in Nitrate	NO3-N	0.44301	99.330	% Recov	80.000	120.000				06/28/08
MSD	Sulfate	14808-79-8	1.9233	98.128	% Recov	80.000	120.000				06/28/08
SPK-RPD	Chloride	16887-00-6	107.059		RPD			0.041	20.000		06/28/08
SPK-RPD	Fluoride	16984-48-8	85.316		RPD			3.830	20.000		06/28/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	96.520		RPD			0.931	20.000		06/28/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	99.330		RPD			1.298	20.000		06/28/08
SPK-RPD	Sulfate	14808-79-8	98.128		RPD			1.551	20.000		06/28/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 06/27/08
 Receive Date: 06/27/08

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	<0.11	n/a	mg/L	0.000	0.030			U	06/28/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/28/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/28/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/28/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/28/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/28/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/28/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/28/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/28/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/28/08
LCS	Chloride	16887-00-6	200.5248	99.764	% Recov	80.000	120.000				06/28/08
LCS	Fluoride	16984-48-8	101.7168	102.125	% Recov	80.000	120.000				06/28/08
LCS	Nitrogen in Nitrite	NO2-N	99.4673	100.068	% Recov	80.000	120.000				06/28/08
LCS	Nitrogen in Nitrate	NO3-N	93.0197	103.241	% Recov	80.000	120.000				06/28/08
LCS	Sulfate	14808-79-8	399.7981	100.959	% Recov	80.000	120.000				06/28/08
Lab ID: W08GR01869											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	<1.1		RPD			n/a	20.000	U	06/27/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	06/27/08
DUP	Nitrogen in Nitrate	NO3-N	0.4165		RPD			12.134	20.000		06/27/08
DUP	Phosphate (P) by IC	PO4-P	4.3859		RPD			4.083	20.000		06/27/08
DUP	Sulfate	14808-79-8	6.1063		RPD			1.668	20.000		06/27/08
MS	Chloride	16887-00-6	0.99961	100.463	% Recov	80.000	120.000				06/27/08
MS	Fluoride	16984-48-8	0.44599	90.465	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrite	NO2-N	0.46509	94.530	% Recov	80.000	120.000				06/27/08
MS	Nitrogen in Nitrate	NO3-N	0.42772	95.901	% Recov	80.000	120.000				06/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Phosphate (P) by IC	PO4-P	0.95569	99.863	% Recov	80.000	120.000				06/27/08
MS	Sulfate	14808-79-8	1.82557	93.141	% Recov	80.000	120.000				06/27/08
MSD	Chloride	16887-00-6	0.9817	98.663	% Recov	80.000	120.000				06/27/08
MSD	Fluoride	16984-48-8	0.44047	89.345	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrite	NO2-N	0.45372	92.220	% Recov	80.000	120.000				06/27/08
MSD	Nitrogen in Nitrate	NO3-N	0.42735	95.818	% Recov	80.000	120.000				06/27/08
MSD	Phosphate (P) by IC	PO4-P	0.95645	99.943	% Recov	80.000	120.000				06/27/08
MSD	Sulfate	14808-79-8	1.81649	92.678	% Recov	80.000	120.000				06/27/08
SPK-RPD	Chloride	16887-00-6	98.663		RPD			1.808	20.000		06/27/08
SPK-RPD	Fluoride	16984-48-8	89.345		RPD			1.246	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	92.220		RPD			2.474	20.000		06/27/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	95.818		RPD			0.087	20.000		06/27/08
SPK-RPD	Phosphate (P) by IC	PO4-P	99.943		RPD			0.080	20.000		06/27/08
SPK-RPD	Sulfate	14808-79-8	92.678		RPD			0.498	20.000		06/27/08
BATCH QC											
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	06/27/08
LCS	Chloride	16887-00-6	195.7881	97.407	% Recov	80.000	120.000				06/27/08
LCS	Fluoride	16984-48-8	104.9766	105.398	% Recov	80.000	120.000				06/27/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20081295
 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	Nitrogen in Nitrite	NO2-N	99.7157	100.318	% Recov	80.000	120.000				06/27/08
LCS	Nitrogen in Nitrate	NO3-N	92.2193	102.352	% Recov	80.000	120.000				06/27/08
LCS	Phosphate (P) by IC	PO4-P	192.4265	99.497	% Recov	80.000	120.000				06/27/08
LCS	Sulfate	14808-79-8	381.8994	96.439	% Recov	80.000	120.000				06/27/08

Lab ID: W08GR02334
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Phosphate (P) by IC	PO4-P	<0.32		RPD			n/a	20.000	U	07/10/08
MS	Phosphate (P) by IC	PO4-P	0.82745	86.463	% Recov	80.000	120.000				07/10/08
MSD	Phosphate (P) by IC	PO4-P	0.84878	88.692	% Recov	80.000	120.000				07/10/08
SPK-RPD	Phosphate (P) by IC	PO4-P	88.692		RPD			2.545	20.000		07/10/08

Lab ID: W08GR02369
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Phosphate (P) by IC	PO4-P	65.642		RPD			0.493	20.000		07/10/08
MS	Phosphate (P) by IC	PO4-P	0.8388	87.649	% Recov	80.000	120.000				07/10/08
MSD	Phosphate (P) by IC	PO4-P	0.9314	97.325	% Recov	80.000	120.000				07/10/08
SPK-RPD	Phosphate (P) by IC	PO4-P	97.325		RPD			10.462	20.000		07/10/08

BATCH QC

BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/10/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/10/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/10/08
LCS	Phosphate (P) by IC	PO4-P	185.1833	95.751	% Recov	80.000	120.000				07/10/08
LCS	Phosphate (P) by IC	PO4-P	189.8606	98.170	% Recov	80.000	120.000				07/10/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01874											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	4920	98.400	% Recov	75.000	125.000				07/23/08
MS	Aluminum	7429-90-5	5004	100.080	% Recov	75.000	125.000				07/23/08
MS	Arsenic	7440-38-2	5090	101.800	% Recov	75.000	125.000				07/23/08
MS	Barium	7440-39-3	2460	98.400	% Recov	75.000	125.000				07/23/08
MS	Calcium	7440-70-2	6360	127.200	% Recov	75.000	125.000				07/23/08
MS	Cadmium	7440-43-9	5061	101.220	% Recov	75.000	125.000				07/23/08
MS	Cobalt	7440-48-4	5066	101.320	% Recov	75.000	125.000				07/23/08
MS	Chromium	7440-47-3	4973	99.460	% Recov	75.000	125.000				07/23/08
MS	Copper	7440-50-8	5060	101.200	% Recov	75.000	125.000				07/23/08
MS	Iron	7439-89-6	5089.7	101.394	% Recov	75.000	125.000				07/23/08
MS	Potassium	7440-09-7	52435	104.870	% Recov	75.000	125.000				07/23/08
MS	Magnesium	7439-95-4	5268	105.360	% Recov	75.000	125.000				07/23/08
MS	Manganese	7439-96-5	5099	101.980	% Recov	75.000	125.000				07/23/08
MS	Molybdenum	7439-98-7	4922	98.440	% Recov	70.000	130.000				07/23/08
MS	Sodium	7440-23-5	12600	252.000	% Recov	75.000	125.000				07/23/08
MS	Nickel	7440-02-0	5024	100.480	% Recov	75.000	125.000				07/23/08
MS	Lead	7439-92-1	5340	106.800	% Recov	75.000	125.000				07/23/08
MS	Antimony	7440-36-0	4968	99.360	% Recov	75.000	125.000				07/23/08
MS	Strontium	7440-24-6	2555.5	102.220	% Recov	75.000	125.000				07/23/08
MS	Vanadium	7440-62-2	4940	98.800	% Recov	75.000	125.000				07/23/08
MS	Zinc	7440-66-6	5003	100.060	% Recov	75.000	125.000				07/23/08
MSD	Silver	7440-22-4	4820	96.400	% Recov	75.000	125.000				07/23/08
MSD	Aluminum	7429-90-5	4917	98.340	% Recov	75.000	125.000				07/23/08
MSD	Arsenic	7440-38-2	5140	102.800	% Recov	75.000	125.000				07/23/08
MSD	Barium	7440-39-3	2390	95.600	% Recov	75.000	125.000				07/23/08
MSD	Calcium	7440-70-2	6000	120.000	% Recov	75.000	125.000				07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	4974	99.480	% Recov	75.000	125.000				07/23/08
MSD	Cobalt	7440-48-4	4931	98.620	% Recov	75.000	125.000				07/23/08
MSD	Chromium	7440-47-3	4809	96.180	% Recov	75.000	125.000				07/23/08
MSD	Copper	7440-50-8	4950	99.000	% Recov	75.000	125.000				07/23/08
MSD	Iron	7439-89-6	4906.7	98.134	% Recov	75.000	125.000				07/23/08
MSD	Potassium	7440-09-7	51385	102.770	% Recov	75.000	125.000				07/23/08
MSD	Magnesium	7439-95-4	5087	101.740	% Recov	75.000	125.000				07/23/08
MSD	Manganese	7439-96-5	4949	98.980	% Recov	75.000	125.000				07/23/08
MSD	Molybdenum	7439-98-7	4904	98.080	% Recov	75.000	125.000				07/23/08
MSD	Sodium	7440-23-5	9000	180.000	% Recov	75.000	125.000				07/23/08
MSD	Nickel	7440-02-0	4947	98.940	% Recov	75.000	125.000				07/23/08
MSD	Lead	7439-92-1	5170	103.400	% Recov	75.000	125.000				07/23/08
MSD	Antimony	7440-38-0	4981	99.620	% Recov	75.000	125.000				07/23/08
MSD	Strontium	7440-24-6	2490.5	99.620	% Recov	75.000	125.000				07/23/08
MSD	Vanadium	7440-62-2	4860	97.200	% Recov	75.000	125.000				07/23/08
MSD	Zinc	7440-68-6	4906	98.120	% Recov	75.000	125.000				07/23/08
SPK-RPD	Silver	7440-22-4	96.400		RPD			2.053	20.000		07/23/08
SPK-RPD	Aluminum	7429-90-5	98.340		RPD			1.754	20.000		07/23/08
SPK-RPD	Arsenic	7440-38-2	102.800		RPD			0.978	20.000		07/23/08
SPK-RPD	Barium	7440-39-3	95.600		RPD			2.887	20.000		07/23/08
SPK-RPD	Calcium	7440-70-2	120.000		RPD			5.825	20.000		07/23/08
SPK-RPD	Cadmium	7440-43-9	99.480		RPD			1.734	20.000		07/23/08
SPK-RPD	Cobalt	7440-48-4	98.620		RPD			2.701	20.000		07/23/08
SPK-RPD	Chromium	7440-47-3	96.180		RPD			3.353	20.000		07/23/08
SPK-RPD	Copper	7440-50-8	99.000		RPD			2.198	20.000		07/23/08
SPK-RPD	Iron	7439-89-6	98.134		RPD			3.268	20.000		07/23/08
SPK-RPD	Potassium	7440-09-7	102.770		RPD			2.023	20.000		07/23/08
SPK-RPD	Magnesium	7439-95-4	101.740		RPD			3.496	20.000		07/23/08
SPK-RPD	Manganese	7439-96-5	98.980		RPD			2.986	20.000		07/23/08
SPK-RPD	Molybdenum	7439-98-7	98.080		RPD			0.366	20.000		07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20081295
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 06/27/08
 Receive Date: 06/27/08

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	180.000		RPD			33.333	20.000 *		07/23/08
SPK-RPD	Nickel	7440-02-0	98.940		RPD			1.544	20.000		07/23/08
SPK-RPD	Lead	7439-92-1	103.400		RPD			3.235	20.000		07/23/08
SPK-RPD	Antimony	7440-36-0	99.620		RPD			0.261	20.000		07/23/08
SPK-RPD	Strontium	7440-24-6	99.620		RPD			2.576	20.000		07/23/08
SPK-RPD	Vanadium	7440-62-2	97.200		RPD			1.633	20.000		07/23/08
SPK-RPD	Zinc	7440-66-6	98.120		RPD			1.958	20.000		07/23/08

BATCH QC

BLANK	Silver	7440-22-4	7	7.000	ug/L						07/23/08
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	07/23/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	07/23/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	07/23/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	07/23/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	07/23/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	07/23/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	07/23/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	07/23/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	07/23/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	07/23/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	07/23/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	07/23/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	07/23/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	07/23/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	07/23/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	07/23/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	07/23/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	07/23/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	07/23/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 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	971	97.100	% Recov	80.000	120.000				07/23/08
LCS	Aluminum	7429-90-5	974.8	97.480	% Recov	80.000	120.000				07/23/08
LCS	Arsenic	7440-38-2	1000	100.000	% Recov	80.000	120.000				07/23/08
LCS	Barium	7440-39-3	473	94.600	% Recov	80.000	120.000				07/23/08
LCS	Calcium	7440-70-2	1039	103.900	% Recov	80.000	120.000				07/23/08
LCS	Cadmium	7440-43-9	994.1	99.410	% Recov	80.000	120.000				07/23/08
LCS	Cobalt	7440-48-4	1002	100.200	% Recov	80.000	120.000				07/23/08
LCS	Chromium	7440-47-3	971.4	97.140	% Recov	80.000	120.000				07/23/08
LCS	Copper	7440-50-8	994	99.400	% Recov	80.000	120.000				07/23/08
LCS	Iron	7439-89-6	985.3	98.530	% Recov	80.000	120.000				07/23/08
LCS	Potassium	7440-09-7	9912	99.120	% Recov	80.000	120.000				07/23/08
LCS	Magnesium	7439-95-4	953.6	95.360	% Recov	80.000	120.000				07/23/08
LCS	Manganese	7439-96-5	986	98.600	% Recov	80.000	120.000				07/23/08
LCS	Molybdenum	7439-98-7	986.5	98.650	% Recov	80.000	120.000				07/23/08
LCS	Sodium	7440-23-5	990.1	99.010	% Recov	80.000	120.000				07/23/08
LCS	Nickel	7440-02-0	995.2	99.520	% Recov	80.000	120.000				07/23/08
LCS	Lead	7439-92-1	1060	106.000	% Recov	80.000	120.000				07/23/08
LCS	Antimony	7440-36-0	1019	101.900	% Recov	80.000	120.000				07/23/08
LCS	Strontium	7440-24-6	493.5	98.700	% Recov	80.000	120.000				07/23/08
LCS	Vanadium	7440-62-2	969	96.900	% Recov	80.000	120.000				07/23/08
LCS	Zinc	7440-66-6	981.3	98.130	% Recov	80.000	120.000				07/23/08

Lab ID: W08GR01898
 BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	4820	96.400	% Recov	75.000	125.000				07/23/08
MS	Aluminum	7429-90-5	4861	97.220	% Recov	75.000	125.000				07/23/08
MS	Arsenic	7440-38-2	5050	101.000	% Recov	75.000	125.000				07/23/08
MS	Barium	7440-39-3	2374	94.960	% Recov	75.000	125.000				07/23/08
MS	Calcium	7440-70-2	5160	103.200	% Recov	75.000	125.000				07/23/08
MS	Cadmium	7440-43-9	4898	97.960	% Recov	75.000	125.000				07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Cobalt	7440-48-4	4852	97.040	% Recov	75.000	125.000				07/23/08
MS	Chromium	7440-47-3	4789	95.780	% Recov	75.000	125.000				07/23/08
MS	Copper	7440-50-8	4950	99.000	% Recov	75.000	125.000				07/23/08
MS	Iron	7439-89-6	4835.7	96.714	% Recov	75.000	125.000				07/23/08
MS	Potassium	7440-09-7	50760	101.520	% Recov	75.000	125.000				07/23/08
MS	Magnesium	7439-95-4	4960	99.200	% Recov	75.000	125.000				07/23/08
MS	Manganese	7439-96-5	4900	98.000	% Recov	75.000	125.000				07/23/08
MS	Molybdenum	7439-98-7	4871	97.420	% Recov	70.000	130.000				07/23/08
MS	Sodium	7440-23-5	4760	95.200	% Recov	75.000	125.000				07/23/08
MS	Nickel	7440-02-0	4853	97.060	% Recov	75.000	125.000				07/23/08
MS	Lead	7439-92-1	5140	102.800	% Recov	75.000	125.000				07/23/08
MS	Antimony	7440-36-0	4919	98.380	% Recov	75.000	125.000				07/23/08
MS	Strontium	7440-24-6	2482.2	99.288	% Recov	75.000	125.000				07/23/08
MS	Vanadium	7440-62-2	4820	96.400	% Recov	75.000	125.000				07/23/08
MS	Zinc	7440-66-6	4874	97.480	% Recov	75.000	125.000				07/23/08
MSD	Silver	7440-22-4	4460	89.200	% Recov	75.000	125.000				07/23/08
MSD	Aluminum	7429-90-5	4530	90.600	% Recov	75.000	125.000				07/23/08
MSD	Arsenic	7440-38-2	4680	93.600	% Recov	75.000	125.000				07/23/08
MSD	Barium	7440-39-3	2184	87.380	% Recov	75.000	125.000				07/23/08
MSD	Calcium	7440-70-2	-4050	-81.000	% Recov	75.000	125.000				07/23/08
MSD	Cadmium	7440-43-9	4593	91.860	% Recov	75.000	125.000				07/23/08
MSD	Cobalt	7440-48-4	4501	90.020	% Recov	75.000	125.000				07/23/08
MSD	Chromium	7440-47-3	4383	87.660	% Recov	75.000	125.000				07/23/08
MSD	Copper	7440-50-8	4550	91.000	% Recov	75.000	125.000				07/23/08
MSD	Iron	7439-89-6	4448.7	88.974	% Recov	75.000	125.000				07/23/08
MSD	Potassium	7440-09-7	46930	93.860	% Recov	75.000	125.000				07/23/08
MSD	Magnesium	7439-95-4	2370	47.400	% Recov	75.000	125.000				07/23/08
MSD	Manganese	7439-96-5	4420	88.400	% Recov	75.000	125.000				07/23/08
MSD	Molybdenum	7439-98-7	4481	89.220	% Recov	75.000	125.000				07/23/08
MSD	Sodium	7440-23-5	-8230	-164.600	% Recov	75.000	125.000				07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Nickel	7440-02-0	4502	90.040	% Recov	75.000	125.000				07/23/08
MSD	Lead	7439-92-1	4770	95.400	% Recov	75.000	125.000				07/23/08
MSD	Antimony	7440-36-0	4633	92.660	% Recov	75.000	125.000				07/23/08
MSD	Strontium	7440-24-6	2236.2	89.448	% Recov	75.000	125.000				07/23/08
MSD	Vanadium	7440-62-2	4450	89.000	% Recov	75.000	125.000				07/23/08
MSD	Zinc	7440-66-6	4497	89.940	% Recov	75.000	125.000				07/23/08
SPK-RPD	Silver	7440-22-4	89.200		RPD			7.759	20.000		07/23/08
SPK-RPD	Aluminum	7429-90-5	90.600		RPD			7.049	20.000		07/23/08
SPK-RPD	Arsenic	7440-38-2	93.600		RPD			7.605	20.000		07/23/08
SPK-RPD	Barium	7440-39-3	87.360		RPD			8.337	20.000		07/23/08
SPK-RPD	Calcium	7440-70-2	-81.000		RPD			1659.459	20.000		07/23/08
SPK-RPD	Cadmium	7440-43-9	91.860		RPD			6.427	20.000		07/23/08
SPK-RPD	Cobalt	7440-48-4	90.020		RPD			7.506	20.000		07/23/08
SPK-RPD	Chromium	7440-47-3	87.660		RPD			8.853	20.000		07/23/08
SPK-RPD	Copper	7440-50-8	91.000		RPD			8.421	20.000		07/23/08
SPK-RPD	Iron	7439-89-6	88.974		RPD			8.337	20.000		07/23/08
SPK-RPD	Potassium	7440-09-7	93.860		RPD			7.841	20.000		07/23/08
SPK-RPD	Magnesium	7439-95-4	47.400		RPD			70.668	20.000		07/23/08
SPK-RPD	Manganese	7439-96-5	88.400		RPD			10.300	20.000		07/23/08
SPK-RPD	Molybdenum	7439-98-7	89.220		RPD			8.787	20.000		07/23/08
SPK-RPD	Sodium	7440-23-5	-164.800		RPD			-748.703	20.000		07/23/08
SPK-RPD	Nickel	7440-02-0	90.040		RPD			7.504	20.000		07/23/08
SPK-RPD	Lead	7439-92-1	95.400		RPD			7.467	20.000		07/23/08
SPK-RPD	Antimony	7440-36-0	92.660		RPD			5.988	20.000		07/23/08
SPK-RPD	Strontium	7440-24-6	89.448		RPD			10.427	20.000		07/23/08
SPK-RPD	Vanadium	7440-62-2	89.000		RPD			7.983	20.000		07/23/08
SPK-RPD	Zinc	7440-66-6	89.940		RPD			8.046	20.000		07/23/08
BATCH QC											
BLANK	Silver	7440-22-4	<5	n/a	ug/L					U	07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 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	07/23/08
BLANK	Arsenic	7440-38-2	< 78	n/a	ug/L					U	07/23/08
BLANK	Barium	7440-39-3	< 4	n/a	ug/L					U	07/23/08
BLANK	Calcium	7440-70-2	115.6	115.600	ug/L						07/23/08
BLANK	Cadmium	7440-43-9	< 4	n/a	ug/L					U	07/23/08
BLANK	Cobalt	7440-48-4	< 4	n/a	ug/L					U	07/23/08
BLANK	Chromium	7440-47-3	< 13	n/a	ug/L					U	07/23/08
BLANK	Copper	7440-50-8	< 6	n/a	ug/L					U	07/23/08
BLANK	Iron	7439-89-6	28	28.000	ug/L						07/23/08
BLANK	Potassium	7440-09-7	< 170	n/a	ug/L					U	07/23/08
BLANK	Magnesium	7439-95-4	< 50	n/a	ug/L					U	07/23/08
BLANK	Manganese	7439-96-5	< 4	n/a	ug/L					U	07/23/08
BLANK	Molybdenum	7439-98-7	< 5	n/a	ug/L					U	07/23/08
BLANK	Sodium	7440-23-5	< 51	n/a	ug/L					U	07/23/08
BLANK	Nickel	7440-02-0	5	5.000	ug/L						07/23/08
BLANK	Lead	7439-92-1	< 45	n/a	ug/L					U	07/23/08
BLANK	Antimony	7440-36-0	< 56	n/a	ug/L					U	07/23/08
BLANK	Strontium	7440-24-6	< 4	n/a	ug/L					U	07/23/08
BLANK	Vanadium	7440-62-2	< 12	n/a	ug/L					U	07/23/08
BLANK	Zinc	7440-66-6	9.4	9.400	ug/L						07/23/08
LCS	Silver	7440-22-4	979	97.900	% Recov	80.000	120.000				07/23/08
LCS	Aluminum	7429-90-5	996.6	99.660	% Recov	80.000	120.000				07/23/08
LCS	Arsenic	7440-38-2	1030	103.000	% Recov	80.000	120.000				07/23/08
LCS	Barium	7440-39-3	477	95.400	% Recov	80.000	120.000				07/23/08
LCS	Calcium	7440-70-2	1051	105.100	% Recov	80.000	120.000				07/23/08
LCS	Cadmium	7440-43-9	999.6	99.960	% Recov	80.000	120.000				07/23/08
LCS	Cobalt	7440-48-4	999.5	99.950	% Recov	80.000	120.000				07/23/08
LCS	Chromium	7440-47-3	974	97.400	% Recov	80.000	120.000				07/23/08
LCS	Copper	7440-50-8	1000	100.000	% Recov	80.000	120.000				07/23/08
LCS	Iron	7439-89-6	998.4	99.840	% Recov	80.000	120.000				07/23/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081295
 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	10130	101.300	% Recov	80.000	120.000				07/23/08
LCS	Magnesium	7439-95-4	960.5	96.050	% Recov	80.000	120.000				07/23/08
LCS	Manganese	7439-96-5	986	98.600	% Recov	80.000	120.000				07/23/08
LCS	Molybdenum	7439-98-7	995.1	99.510	% Recov	80.000	120.000				07/23/08
LCS	Sodium	7440-23-5	1022	102.200	% Recov	80.000	120.000				07/23/08
LCS	Nickel	7440-02-0	996.4	99.640	% Recov	80.000	120.000				07/23/08
LCS	Lead	7439-92-1	1070	107.000	% Recov	80.000	120.000				07/23/08
LCS	Antimony	7440-36-0	1025	102.500	% Recov	80.000	120.000				07/23/08
LCS	Strontium	7440-24-6	494.6	98.920	% Recov	80.000	120.000				07/23/08
LCS	Vanadium	7440-62-2	980	98.000	% Recov	80.000	120.000				07/23/08
LCS	Zinc	7440-66-6	984.9	98.490	% Recov	80.000	120.000				07/23/08

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number: F06-027

Group #: WSCF20081295
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>IC Anion - Samples W08GR01884, 95-96: Unknown peak interfering with sulfate result - DTS</p> <p>W08GR01887-1898/Gross beta duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. lmh</p> <p>ICP-AES: [Samples W08GR1884-1890; 1895-1897] High silver preparation blank result; "C" flag if applicable. No zirconium present in the LCS standard. Sodium sample result exceeds spiking level by a factor of 4 so spike recoveries are not valid. Check and high standards are used to ensure sodium and calcium linearity because sample results are greater than the calibration standard. High calcium MS recovery; "N" flag.</p> <p>ICP-AES: [Samples W08GR1891-1894; 1898] High nickel, zinc, iron, and calcium preparation blank results; "C" flag if applicable. No zirconium present in the LCS standard. Calcium and sodium sample results exceed spiking level by a factor of 4 so spike recoveries are not valid.</p>

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

VALTEST - Test Validation
 LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081295
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
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Check standard is used to ensure sodium linearity because sample results are greater than the calibration standard.
Low magnesium MSD recovery; "N" flag.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20081295 Report Date: 28-jul-2008

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01884
Client ID: B1VVV9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	2.00	pCi/L	+ -2.08	pCi/L	1.00	3.2		07/03/08
Gross beta	12587-47-2	LA-508-415		1.10e+03	pCi/L	+ -110	pCi/L	1.00	4.2		07/03/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

Report WGPP/ver. 5.2

Groundwater Remediation Program

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

D - Analyte was identified at a secondary dilution factor

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01885
Client ID: B1VVW0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	-4.00	pCi/L	+ -14.4	pCi/L	1.00	2.9		07/03/08
Gross beta	12587-47-2	LA-508-415		330	pCi/L	+ -46.2	pCi/L	1.00	33		07/03/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

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Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01886
Client ID: B1VVW1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	-8.40	pCi/L	+ -12.0	pCi/L	1.00	26		07/03/08
Gross beta	12587-47-2	LA-508-415		330	pCi/L	+ -46.2	pCi/L	1.00	32		07/03/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01887
Client ID: B1VVW2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	-15.0	pCi/L	+-23.6	pCi/L	1.00	52		07/07/08
Gross beta	12587-47-2	LA-508-415		420	pCi/L	+-71.4	pCi/L	1.00	61		07/07/08

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
 E - Analyte is an estimate, has potentially larger errors(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01888
Client ID: B1VVW3

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	3.30	pCi/L	+ -2.64	pCi/L	1.00	3.9		07/07/08
Gross beta	12587-47-2	LA-508-415		830	pCi/L	+ -83.0	pCi/L	1.00	5.6		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01889
Client ID: B1VW4

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		9.50	pCi/L	+ -3.80	pCi/L	1.00	4.4		07/07/08
Gross beta	12587-47-2	LA-508-415		3.20e +03	pCi/L	+ -320	pCi/L	1.00	5.8		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01890
Client ID: B1VVW5

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	0.390	pCi/L	+ -2.14	pCi/L	1.00	4.0		07/07/08
Gross beta	12587-47-2	LA-508-415		220	pCi/L	+ -24.2	pCi/L	1.00	5.6		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01891
Client ID: B1VVW6

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	3.80	pCi/L	+ -2.77	pCi/L	1.00	4.0		07/07/08
Gross beta	12587-47-2	LA-508-415		1.60e +03	pCi/L	+ -160	pCi/L	1.00	5.7		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01892
Client ID: B1VVW7

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	0.430	pCi/L	+ -2.36	pCi/L	1.00	4.3		07/07/08
Gross beta	12587-47-2	LA-508-415		440	pCi/L	+ -44.0	pCi/L	1.00	5.8		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01893
Client ID: B1VVW8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	1.20	pCi/L	+ -8.60	pCi/L	1.00	12		07/07/08
Gross beta	12587-47-2	LA-508-415		1.20e+03	pCi/L	+ -120	pCi/L	1.00	15		07/07/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01894
Client ID: B1VVW9

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	0.520	pCi/L	+ -2.85	pCi/L	1.00	5.2		07/07/08
Gross beta	12587-47-2	LA-508-415		500	pCi/L	+ -50.0	pCi/L	1.00	6.1		07/07/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01895
Client ID: B1VVX0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	2.20	pCi/L	+ -2.73	pCi/L	1.00	4.4		07/07/08
Gross beta	12587-47-2	LA-508-415		680	pCi/L	+ -68.0	pCi/L	1.00	5.8		07/07/08

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
 E - Analyte is an estimate, has potentially larger errors (inorg)
 U - Analyzed for but not detected above limiting criteria (inorg)

C - The Analyte was found in the Associated Blank. (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

Report WGPP/ver. 5.2
 Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01896
Client ID: B1VVX1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	1.20	pCi/L	+ -2.76	pCi/L	1.00	5.0		07/07/08
Gross beta	12587-47-2	LA-508-415		450	pCi/L	+ -45.0	pCi/L	1.00	6.1		07/07/08

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

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

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

+ - Indicates more than six qualifier symbols

C - The Analyte was found in the Associated Blank.(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)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01897
Client ID: B1VVX2

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	0.400	pCi/L	+ -2.04	pCi/L	1.00	4.0		07/07/08
Gross beta	12587-47-2	LA-508-415		370	pCi/L	+ -40.7	pCi/L	1.00	5.7		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR01898
Client ID: B1VVX3

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081295
Department: Radiochemistry
Sampled: 06/27/08
Received: 06/27/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		5.80	pCi/L	+ -3.25	pCi/L	1.00	4.4		07/07/08
Gross beta	12587-47-2	LA-508-415		1.80e +03	pCi/L	+ -180	pCi/L	1.00	5.8		07/07/08

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

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

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

C - The Analyte was found in the Associated Blank.(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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081295
 Matrix: WATER
 Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 06/27/08
 Receive Date: 06/27/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01869											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	U1.1		RPD			n/a	20.000		07/03/08
DUP	Gross beta	12587-47-2	2.4E+02		RPD			8.000	20.000		07/03/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-4.7E-01	n/a	pCi/L	-10.000	10.000				07/03/08
BLANK	Gross beta	12587-47-2	8.1	8.100	pCi/L	-10.000	10.000				07/03/08
LCS	Gross alpha	12587-46-1	159	103.247	% Recov	80.000	120.000				07/03/08
LCS	Gross beta	12587-47-2	499	111.235	% Recov	80.000	120.000				07/03/08
Lab ID: W08GR01887											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	U-1.1E+01		RPD			n/a	20.000		07/07/08
DUP	Gross beta	12587-47-2	3.2E+02		RPD			27.027	20.000		07/07/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-3.5E-01	n/a	pCi/L	-10.000	10.000				07/07/08
BLANK	Gross beta	12587-47-2	U4.2E-01	n/a	pCi/L	-10.000	10.000				07/07/08
LCS	Gross alpha	12587-46-1	152.0	98.096	% Recov	80.000	120.000				07/07/08
LCS	Gross beta	12587-47-2	482.0	107.433	% Recov	80.000	120.000				07/07/08

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081295
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>IC Anion - Samples W08GR01884, 95-96: Unknown peak interfering with sulfate result - DTS</p> <p>W08GR01887-1898/Gross beta duplicate is flagged for poor RPD. Since all the other QC checks came out fine, this batch has been approved. Imh</p> <p>ICP-AES: [Samples W08GR1884-1890; 1895-1897] High silver preparation blank result; "C" flag if applicable. No zirconium present in the LCS standard. Sodium sample result exceeds spiking level by a factor of 4 so spike recoveries are not valid. Check and high standards are used to ensure sodium and calcium linearity because sample results are greater than the calibration standard. High calcium MS recovery; "N" flag.</p> <p>ICP-AES: [Samples W08GR1891-1894; 1898] High nickel, zinc, iron, and calcium preparation blank results; "C" flag if applicable. No zirconium present in the LCS standard. Calcium and sodium sample results exceed spiking level by a factor of 4 so spike recoveries are not valid.</p>

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20081295

Report Date: 28-jul-2008

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M4W41-SLF-08-752

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 6 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

7/15/08
F. 105 KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20081295
Project#: F06-027
Proj Mgr: Steve Trent G6-35
Phone: 373-5869

The following samples were received from you on 06/27/08. 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
W08GR01884	B1VVV9	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01885	B1VVW0	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01886	B1VVW1	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01887	B1VVW2	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01888	B1VVW3	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01889	B1VVW4	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01890	B1VVW5	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01891	B1VVW6	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01892	B1VVW7	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01893	B1VVW8	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01894	B1VVW9	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01895	B1VVX0	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01896	B1VVX1	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01897	B1VVX2	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08
W08GR01898	B1VVX3	TRENT @AB-32	Water @GPP6010 @IC-30	06/27/08

Test Acronym Description

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

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20081295
Project#: F06-027
Proj Mgr: Steve Trent G6-35
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@AB-32	Gross Alpha/Gross Beta (AB32)
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography

COLLECTOR

McIntyre / Rosene

2/15

SAMPLING LOCATION

100-NR-2 Pilot Test #2 Site

ICE CHEST NO.

COMPANY CONTACT

FABRE, RJ

TELEPHONE NO.

373-2774

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE

7G

DATA TURNAROUND

15 Days / 30 Days

PROJECT DESIGNATION

100-N Apatite Barrier Performance Monitoring

SAF NO.

F06-027

AIR QUALITY

FIELD LOGBOOK NO.

HNF-N-585-11

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 HNO3 to pH <2 Cool-4C

TYPE OF CONTAINER

P P P

NO. OF CONTAINER(S)

1 1 1

VOLUME

1000mL 250mL 120mL

SAMPLE ANALYSIS

Gross Alpha; Gross Beta; SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

20081295

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VW9	WATER	6-27-08	0920	✓	✓	✓
B1VW0	85 WATER	6-27-08	0820	✓	✓	✓
B1VW1	86 WATER	6-27-08	0820	✓	✓	✓
B1VW2	87 WATER	6-27-08	0820	✓	✓	✓
B1VW3	88 WATER	6-27-08	0910	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
<i>McIntyre / Rosene</i>	<i>6-27-08 10:25</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>6-27-08 10:25</i>
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME

SPECIAL INSTRUCTIONS

- (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}

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LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

COLLECTOR
McIntyre / Rosane
SAMPLING LOCATION
100-NR-2 Pilot Test #2 Site
ICE CHEST NO.

COMPANY CONTACT
FABRE, RJ
TELEPHONE NO.
373-2774
PROJECT DESIGNATION
100-N Apatite Barrier Performance Monitoring
FIELD LOGBOOK NO.
HNF-N-585-11
ACTUAL SAMPLE DEPTH

PROJECT COORDINATOR
TRENT, SJ
PRICE CODE
7G
SAF NO.
F06-027
AIR QUALITY
COA
122561ES20
METHOD OF SHIPMENT
GOVERNMENT VEHICLE

DATA
TURNAROUND
15 Days / 30
Days

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)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2	HNO3 to pH <2	Cool~4C
TYPE OF CONTAINER	P	P	P
NO. OF CONTAINER(S)	1	1	1
VOLUME	1000mL	250mL	120mL
SAMPLE ANALYSIS	Gross Alpha; Gross Beta;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VWW4	89 WATER	6-27-08	0735	✓	✓	✓
B1VWW5	90 WATER	6-27-08	0745	✓	✓	✓
B1VWW6	91 WATER	6-27-08	0750	✓	✓	✓
B1VWW7	92 WATER	6-27-08	0755	✓	✓	✓
B1VWW8	93 WATER	6-27-08	0845	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>McIntyre / Rosane</i>	6-27-08 / 10:25	<i>V. Bins</i>	6/27/08 / 10:25
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(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}

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

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COLLECTOR ROSANNE, McINTYRE	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 Pilot Test #2 Site	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-585-11	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	HNO3 to pH <2	Cool-4C
		TYPE OF CONTAINER	P	P	P
		NO. OF CONTAINER(S)	1	1	1
		VOLUME	1000mL	250mL	120mL
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	Gross Alpha; Gross Beta;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VVW9	94 WATER	6-27-08	0800	✓	✓	✓
B1VVX0	95 WATER	6-27-08	0820	✓	✓	✓
B1VVX1	96 WATER	6-27-08	0810	✓	✓	✓
B1VVX2	97 WATER	6-27-08	0815	✓	✓	✓
B1VVX3	98 WATER	6-27-08	0930	✓	✓	✓

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}	
ARMC/Entire/AB/CL	6-27-08/1025	Victor Sims	6/27/08 10:25		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

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

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