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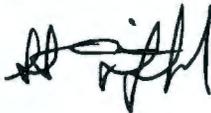
Fluor Hanford
WSCF Analytical Lab
P.O. Box 1000
Richland, WA 99352
Telephone 373-7495
Telefax 372-0456

FLUOR

Memorandum

M4W41-SLF-08-911

To: H. Hampt E6-35 Date: August 27, 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 WSCF20081555 – 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 WSCF20081555:

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

SLF/grf

Attachments 5

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081555
Data Deliverable Date: 11-aug-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F06-027	B1WLC8	W08GR02937	WATER
	B1WLC9	W08GR02938	WATER
	B1WLD0	W08GR02939	WATER
	B1WLD1	W08GR02940	WATER
	B1WLD2	W08GR02941	WATER
	B1WLD3	W08GR02942	WATER
	B1WLD4	W08GR02943	WATER
	B1WLD5	W08GR02944	WATER
	B1WLD6	W08GR02945	WATER
	B1WLD7	W08GR02946	WATER
	B1WLD8	W08GR02947	WATER
	B1WLD9	W08GR02948	WATER
	B1WLF0	W08GR02949	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction

Thirteen (13) groundwater samples were received at the WSCF Laboratory on July 25, 2008. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A copy of Issue Resolution Form (IRF), #08-128, documenting missed IC hold time is included as Attachment 3. 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*, page 19, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – The 48-hour hold time requirement for this analysis was not met. See comment below. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 46 through 54 for QC details. Analytical Note(s):

- Missed Hold Time – Refer to IRF #08-128 (Attachment 3) documenting missed hold time.
- 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.
- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on the following
 - B1WLF3 and B1WLF5 (SDG# 20081554, SAF# F06-027), B1WLD2 and B1WLF0 of this SDG; and, B1WLL5 and B1WLM3 (SDG# 20081557, SAF# F06-027).

- Batch QC - B1WLF3 – Matrix Spike and Matrix Spike Duplicate recoveries for Fluoride were less than established laboratory limits. Affected sample results were N flagged.
- Batch QC - B1WLL5 – Matrix Spike recovery for Phosphate-P exceeded established laboratory limits. Affected sample results were N flagged.
- Batch QC - B1WLF0 – Matrix Spike and Matrix Spike Duplicate recoveries for Fluoride were less than established laboratory limits. Additionally, Matrix Spike and Matrix Spike Duplicate recoveries for Nitrite-N exceeded established laboratory limits. Affected sample results were N flagged.

All other QC controls were within established limits.

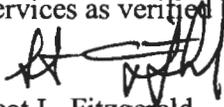
ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 55 through 62 for QC details. Analytical Note(s):

- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit were B flagged.
- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1WC80 (SDG# 20081544, SAF# F06-027) and B1WLD3 of this SDG.
- Batch QC - B1WC80
 - Silver detected in the Blank was evaluated and there was no affect on sample results.
 - Calcium sample concentration exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check and high standards were analyzed to ensure Sodium, Magnesium and Calcium linearity because sample results are greater than the calibration standard. Affected sample results were X flagged.
 - Sodium – Spike Relative Percent Difference (RPD) slightly exceeded established laboratory limits. No flags issued.
- Batch QC - B1WLD3
 - Silver detected in the Blank was evaluated and affected sample results were C flagged.
 - Sodium and Calcium sample concentrations exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check and high standards were analyzed to

ensure Sodium, Magnesium and Calcium linearity because sample results are greater than the calibration standard. Affected sample results were X flagged.

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-08-911

ATTACHMENT 3

ISSUE RESOLUTION FORM

Consisting of 7 pages
Including cover page

ISSUE RESOLUTION FORM

GRP TRACKING NUMBER: 08-128

Date : 7-31-2008 SAF No. F06-027

SDG(s): **See Attached** LOGIN No.: TEST: ANIONS (@IC-30)

Sample No.(s)

B1WC96, B1WC97, B1WC98, B1WC99, B1WCB0, B1WCB1, B1WCB2, B1WCB3, B1WCB4, B1WCB5, B1WCB6, B1WCB7, B1WCB8, B1WCB9, B1WCC0, B1WCC1, B1WCC2, B1WCC3, B1WB55, B1WB56, B1WB57, B1WB 58, B1WB59, B1WB60, B1WB61, B1WB62, B1WB63, B1WB64, B1WB65, B1WB66, B1WB67, B1WC92, B1WC93, B1WC94, B1WC95, B1WC23, B1WC30, B1WL54, B1WL55, B1WL56, B1WL57, B1WL58, B1WL59, B1WL60, B1WL61, B1WL62, B1WL63, B1WL64, B1WL65, B1WL66, B1WL67, B1WL68, B1WL69, B1WL70, B1WC24, B1WC31, B1WLF1, B1WLF2, B1WLF3, B1WLF4, B1WLF5, B1WLF6, B1WLF7, B1WLD1, B1WLD2, B1WLD3, B1WLD4, B1WLD5, B1WLD6, B1WLD7, B1WLD8, B1WLD9, B1WLF0, B1WLK3, B1WLK4, B1WLK5, B1WLK6, B1WLK7, B1WLK8, B1WLK9, B1WLL0, B1WLL1, B1WLL2, B1WLL3, B1WLL4, B1WLL5, B1WLL6, B1WLL7, B1WLL8, B1WLL9, B1WLM0, B1WLM1, B1WLM2, B1WLM3, B1WLM4, B1WLM5, B1WLM6, B1WLM7, B1W7R0, B1W7R1, B1W7R3, B1W7R5, B1W7R6, B1W7T1, B1W7T2, B1W7T4, B1W7T5, B1W7T7, B1W7T8, B1WLC8, B1WLC9, AND B1WLD0

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

<u>ISSUE</u>	<u>PROPOSED RESOLUTION</u>
Anion backlog, Refer to the attached email memo.	Refer to the attached email memo for issue resolution.

GRP COMMENTS

Accept proposed resolution – laboratory will prioritize work on any new anion samples to meet holding times. Also, lab will work off the 120+ backlogged samples expeditiously. Remainder of F06-027 anion samples will be redirected.

Heidi Hampt 8/5/08
Signature and Date

Kopriva, Andrew

From: Trent, Stephen J
Sent: Thursday, July 31, 2008 11:26 AM
To: Fitzgerald, Scot L
Cc: Anastos, Heather L; Mix, Pauline D; Kopriva, Andrew; Bolling, Stacey D; Baird, William W (Bill); Swanson, L Craig; Alexander, Debra J (Deb) Fabre, Russel J; Widrig, Dana L
Subject: RE: Apatite Barrier IC Analysis

Scot,

After further discussions with project personnel, we request that the laboratory prioritize work on any new anion samples to meet the holding times. In addition, we need the laboratory to expeditiously work off the 120+ backlogged anion samples that are currently outside the holding time.

We will assist the laboratory in catching up on the back log by redirecting the remainder of the SAF F06-027 anion samples.

If you have questions or concerns, please call.

Thanks,

Steve Trent
Manager, Sample and Data Management
Fluor Hanford - Soil & Groundwater Remediation Project
Ph: (509) 373-5869
Cell: (509) 947-9354
EFax: (866) 252-5816
Site Pager: 85-7344

From: Fitzgerald, Scot L
Sent: Thursday, July 31, 2008 10:38 AM
To: Widrig, Dana L
Cc: Trent, Stephen J; Anastos, Heather L; Mix, Pauline D; Kopriva, Andrew; Bolling, Stacey D; Baird, William W (Bill)
Subject: Apatite Barrier IC Analysis

Dana,

As a confirmation to our conversation today:

WSCF has approximately 120 samples backlogged for the IC method that have exceeded the 2X hold time (the actual sample numbers and dates will be relayed in an IIF). WSCF plans to prioritize all incoming apatite barrier samples over the backlog samples. This will ensure that all new samples received will be analyzed within the 2X hold time. The back logged samples will be put into the queue to be analyzed as instrument time becomes available.

Scot Fitzgerald
WSCF Analytical Manager
373-7495

WSCF Sample Availability

Anions by Ion Chromatography (@IC-30 on WATER)

Sample#:	W08GR02736 0	Sample ID:	B1WC96	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02737 0	Sample ID:	B1WC97	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02738 0	Sample ID:	B1WC98	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02739 0	Sample ID:	B1WC99	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02740 0	Sample ID:	B1WC80	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02741 0	Sample ID:	B1WC81	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02742 0	Sample ID:	B1WC82	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02743 0	Sample ID:	B1WC83	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02744 0	Sample ID:	B1WC84	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02745 0	Sample ID:	B1WC85	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02746 0	Sample ID:	B1WC86	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02747 0	Sample ID:	B1WC87	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02748 0	Sample ID:	B1WC88	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02749 0	Sample ID:	B1WC89	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02750 0	Sample ID:	B1WCC0	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02751 0	Sample ID:	B1WCC1	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02752 0	Sample ID:	B1WCC2	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02753 0	Sample ID:	B1WCC3	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081504
Sample#:	W08GR02754 0	Sample ID:	B1WB55	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02755 0	Sample ID:	B1WB56	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02756 0	Sample ID:	B1WB57	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02757 0	Sample ID:	B1WB58	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02758 0	Sample ID:	B1WB59	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02759 0	Sample ID:	B1WB60	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02760 0	Sample ID:	B1WB61	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02761 0	Sample ID:	B1WB62	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02762 0	Sample ID:	B1WB63	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02763 0	Sample ID:	B1WB64	TRENT	Priority:	20-jul-2008	Wrk#	Group#:	20081505

WSCF Sample Availability

Anions by Ion Chromatography (@IC-30 on WATER)

Sample#:	W08GR02764 0	Sample ID:	B1WB65	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02765 0	Sample ID:	B1WB66	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02766 0	Sample ID:	B1WB67	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02767 0	Sample ID:	B1WC92	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02768 0	Sample ID:	B1WC93	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02769 0	Sample ID:	B1WC94	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02770 0	Sample ID:	B1WC95	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02854 0	Sample ID:	B1WC23	TRENT	Priority:	20-Jul-2008	Wrk#	Group#:	20081505
Sample#:	W08GR02855 0	Sample ID:	B1WC30	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081530
Sample#:	W08GR02860 0	Sample ID:	B1WL54	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081530
Sample#:	W08GR02861 0	Sample ID:	B1WL55	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02862 0	Sample ID:	B1WL56	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02863 0	Sample ID:	B1WL57	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02864 0	Sample ID:	B1WL58	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02865 0	Sample ID:	B1WL59	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02866 0	Sample ID:	B1WL60	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02867 0	Sample ID:	B1WL61	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02868 0	Sample ID:	B1WL62	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02869 0	Sample ID:	B1WL63	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02870 0	Sample ID:	B1WL64	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02871 0	Sample ID:	B1WL65	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02872 0	Sample ID:	B1WL66	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02873 0	Sample ID:	B1WL67	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02874 0	Sample ID:	B1WL68	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02875 0	Sample ID:	B1WL69	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02876 0	Sample ID:	B1WL70	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02911 0	Sample ID:	B1WC24	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081533
Sample#:	W08GR02913 0	Sample ID:	B1WC31	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081544
Sample#:	W08GR02930 0	Sample ID:	B1WLF1	TRENT	Priority:	25-Jul-2008	Wrk#	Group#:	20081544
Sample#:	W08GR02931 0	Sample ID:	B1WLF2	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554
Sample#:	W08GR02932 0	Sample ID:	B1WLF3	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554
Sample#:	W08GR02933 0	Sample ID:	B1WLF4	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554
Sample#:	W08GR02934 0	Sample ID:	B1WLF5	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554
Sample#:	W08GR02935 0	Sample ID:	B1WLF6	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554
Sample#:	W08GR02936 0	Sample ID:	B1WLF7	TRENT	Priority:	27-Jul-2008	Wrk#	Group#:	20081554

WSCF Sample Availability

Anions by Ion Chromatography (@IC-30 on WATER)

Sample#:	W08GR02937 0	Sample ID:	B1WLC8	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02938 0	Sample ID:	B1WLC9	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02939 0	Sample ID:	B1WLD0	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02940 0	Sample ID:	B1WLD1	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02941 0	Sample ID:	B1WLD2	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02942 0	Sample ID:	B1WLD3	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02943 0	Sample ID:	B1WLD4	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02944 0	Sample ID:	B1WLD5	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02945 0	Sample ID:	B1WLD6	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02946 0	Sample ID:	B1WLD7	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02947 0	Sample ID:	B1WLD8	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02948 0	Sample ID:	B1WLD9	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02949 0	Sample ID:	B1WLF0	TRENT	Priority:	27-jul-2008	Wrk#	Group#:	20081555
Sample#:	W08GR02951 0	Sample ID:	B1WLK3	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02952 0	Sample ID:	B1WLK4	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02953 0	Sample ID:	B1WLK5	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02954 0	Sample ID:	B1WLK6	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02955 0	Sample ID:	B1WLK7	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02956 0	Sample ID:	B1WLK8	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02957 0	Sample ID:	B1WLK9	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02958 0	Sample ID:	B1WLL0	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02959 0	Sample ID:	B1WLL1	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02960 0	Sample ID:	B1WLL2	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02961 0	Sample ID:	B1WLL3	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02962 0	Sample ID:	B1WLL4	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02963 0	Sample ID:	B1WLL5	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02964 0	Sample ID:	B1WLL6	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02965 0	Sample ID:	B1WLL7	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02966 0	Sample ID:	B1WLL8	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02967 0	Sample ID:	B1WLL9	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02968 0	Sample ID:	B1WLM0	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02969 0	Sample ID:	B1WLM1	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02970 0	Sample ID:	B1WLM2	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02971 0	Sample ID:	B1WLM3	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557
Sample#:	W08GR02972 0	Sample ID:	B1WLM4	TRENT	Priority:	28-jul-2008	Wrk#	Group#:	20081557

WSCF Sample Availability

itions by Ion Chromatography (@IC-30 on WATER)

Sample#:	W08GR02973 0	Sample ID:	B1WLM5	TRENT	Priority:	28-jul-2008	Wrk#:	Group#:	20081557
Sample#:	W08GR02974 0	Sample ID:	B1WLM6	TRENT	Priority:	28-jul-2008	Wrk#:	Group#:	20081557
Sample#:	W08GR02975 0	Sample ID:	B1WLM7	TRENT	Priority:	28-jul-2008	Wrk#:	Group#:	20081557
Sample#:	W08GR02492 0	Sample ID:	B1W7R0	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02493 0	Sample ID:	B1W7R1	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02495 0	Sample ID:	B1W7R3	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02497 0	Sample ID:	B1W7R5	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02498 0	Sample ID:	B1W7R6	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02503 0	Sample ID:	B1W7T1	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02504 0	Sample ID:	B1W7T2	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02506 0	Sample ID:	B1W7T4	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02507 0	Sample ID:	B1W7T5	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02509 0	Sample ID:	B1W7T7	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426
Sample#:	W08GR02510 0	Sample ID:	B1W7T8	GPP TRENT	Priority:	14-jul-2008	Wrk#:	Group#:	20081426

M4W41-SLF-08-911

ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 49 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

S. Fitzgerald 8/27/08

Client Services:

P.D. Mix 8/27/2008

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#: WSCF20081555

Report Date: 26-aug-2008

Report WGPP/ver. 5.2

Groundwater Remediation Program

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Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081555

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37465	2	37901	42236	BLANK		Anions by Ion Chromatography
37465	13	37901	42236	BLANK		Anions by Ion Chromatography
37465	24	37901	42236	BLANK		Anions by Ion Chromatography
37465	3	37901	42236	LCS		Anions by Ion Chromatography
37465	14	37901	42236	LCS		Anions by Ion Chromatography
37465	16	37901	42236	DUP	W08GR02932	Anions by Ion Chromatography
37465	17	37901	42236	MS	W08GR02932	Anions by Ion Chromatography
37465	18	37901	42236	MSD	W08GR02932	Anions by Ion Chromatography
37465	18	37901	42236	SPK-RPD	W08GR02932	Anions by Ion Chromatography
37465	8	37901	42236	SAMPLE	W08GR02938	Anions by Ion Chromatography
37465	9	37901	42236	SAMPLE	W08GR02939	Anions by Ion Chromatography
37465	10	37901	42236	SAMPLE	W08GR02940	Anions by Ion Chromatography
37465	5	37901	42236	DUP	W08GR02941	Anions by Ion Chromatography
37465	6	37901	42236	MS	W08GR02941	Anions by Ion Chromatography
37465	7	37901	42236	MSD	W08GR02941	Anions by Ion Chromatography
37465	4	37901	42236	SAMPLE	W08GR02941	Anions by Ion Chromatography
37465	7	37901	42236	SPK-RPD	W08GR02941	Anions by Ion Chromatography
37465	19	37901	42236	SAMPLE	W08GR02942	Anions by Ion Chromatography
37465	12	37901	42236	SAMPLE	W08GR02943	Anions by Ion Chromatography
37465	21	37901	42236	SAMPLE	W08GR02945	Anions by Ion Chromatography
37465	22	37901	42236	SAMPLE	W08GR02946	Anions by Ion Chromatography
37465	23	37901	42236	SAMPLE	W08GR02947	Anions by Ion Chromatography
37468	2	37897	42244	BLANK		Anions by Ion Chromatography
37468	13	37897	42244	BLANK		Anions by Ion Chromatography
37468	25	37897	42244	BLANK		Anions by Ion Chromatography
37468	3	37897	42244	LCS		Anions by Ion Chromatography
37468	14	37897	42244	LCS		Anions by Ion Chromatography
37468	16	37897	42244	DUP	W08GR02934	Anions by Ion Chromatography
37468	17	37897	42244	MS	W08GR02934	Anions by Ion Chromatography
37468	18	37897	42244	MSD	W08GR02934	Anions by Ion Chromatography
37468	18	37897	42244	SPK-RPD	W08GR02934	Anions by Ion Chromatography
37468	24	37897	42244	SAMPLE	W08GR02937	Anions by Ion Chromatography
37468	5	37897	42244	DUP	W08GR02963	Anions by Ion Chromatography
37468	6	37897	42244	MS	W08GR02963	Anions by Ion Chromatography
37468	7	37897	42244	MSD	W08GR02963	Anions by Ion Chromatography
37468	7	37897	42244	SPK-RPD	W08GR02963	Anions by Ion Chromatography
37502	2	37926	42257	BLANK		Anions by Ion Chromatography
37502	12	37926	42257	BLANK		Anions by Ion Chromatography
37502	24	37926	42257	BLANK		Anions by Ion Chromatography
37502	3	37926	42257	LCS		Anions by Ion Chromatography
37502	13	37926	42257	LCS		Anions by Ion Chromatography
37502	8	37926	42257	SAMPLE	W08GR02944	Anions by Ion Chromatography
37502	9	37926	42257	SAMPLE	W08GR02948	Anions by Ion Chromatography
37502	5	37926	42257	DUP	W08GR02949	Anions by Ion Chromatography
37502	6	37926	42257	MS	W08GR02949	Anions by Ion Chromatography
37502	7	37926	42257	MSD	W08GR02949	Anions by Ion Chromatography
37502	4	37926	42257	SAMPLE	W08GR02949	Anions by Ion Chromatography
37502	7	37926	42257	SPK-RPD	W08GR02949	Anions by Ion Chromatography
37502	15	37926	42257	DUP	W08GR02971	Anions by Ion Chromatography
37502	16	37926	42257	MS	W08GR02971	Anions by Ion Chromatography

37502	17	37926	42257	MSD	W08GR02971	Anions by Ion Chromatography
37502	17	37926	42257	SPK-RPD	W08GR02971	Anions by Ion Chromatography
37613	1	37939	42457	BLANK		ICP Metals Analysis, Grd H20 P
37613	2	37939	42457	LCS		ICP Metals Analysis, Grd H20 P
37613	4	37939	42457	MS	W08GR02918	ICP Metals Analysis, Grd H20 P
37613	5	37939	42457	MSD	W08GR02918	ICP Metals Analysis, Grd H20 P
37613	5	37939	42457	SPK-RPD	W08GR02918	ICP Metals Analysis, Grd H20 P
37613	20	37939	42457	SAMPLE	W08GR02937	ICP Metals Analysis, Grd H20 P
37613	21	37939	42457	SAMPLE	W08GR02938	ICP Metals Analysis, Grd H20 P
37613	22	37939	42457	SAMPLE	W08GR02939	ICP Metals Analysis, Grd H20 P
37613	23	37939	42457	SAMPLE	W08GR02940	ICP Metals Analysis, Grd H20 P
37613	24	37939	42457	SAMPLE	W08GR02941	ICP Metals Analysis, Grd H20 P
37614	1	37940	42459	BLANK		ICP Metals Analysis, Grd H20 P
37614	2	37940	42459	LCS		ICP Metals Analysis, Grd H20 P
37614	4	37940	42459	MS	W08GR02942	ICP Metals Analysis, Grd H20 P
37614	5	37940	42459	MSD	W08GR02942	ICP Metals Analysis, Grd H20 P
37614	3	37940	42459	SAMPLE	W08GR02942	ICP Metals Analysis, Grd H20 P
37614	5	37940	42459	SPK-RPD	W08GR02942	ICP Metals Analysis, Grd H20 P
37614	6	37940	42459	SAMPLE	W08GR02943	ICP Metals Analysis, Grd H20 P
37614	7	37940	42459	SAMPLE	W08GR02944	ICP Metals Analysis, Grd H20 P
37614	8	37940	42459	SAMPLE	W08GR02945	ICP Metals Analysis, Grd H20 P
37614	9	37940	42459	SAMPLE	W08GR02946	ICP Metals Analysis, Grd H20 P
37614	10	37940	42459	SAMPLE	W08GR02947	ICP Metals Analysis, Grd H20 P
37614	11	37940	42459	SAMPLE	W08GR02948	ICP Metals Analysis, Grd H20 P
37614	12	37940	42459	SAMPLE	W08GR02949	ICP Metals Analysis, Grd H20 P

WSCF

METHOD REFERENCES REPORT

Department: Inorganic

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

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

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

Report Date: 26-aug-2008

Report#: WSCF20081555

Report WGPPM/5.2

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Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02937
Client ID: B1WLC8

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.232	mg/L			10.00	0.23		08/08/08
Chloride	16887-00-6	LA-533-410	D	351	mg/L			51.00	2.4		08/06/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/06/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/06/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	160	mg/L			10.00	0.61		08/06/08
Sulfate	14808-79-8	LA-533-410	D	11.1	mg/L			10.00	1.3		08/06/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	7.92e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	BD	35.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	1.47e+04	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	D	1.32e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	62.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	BD	21.3	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 #: W08GR02937
Client ID: B1WLC8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.45e+05	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-8	LA-505-411	D	3.41e+03	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)
 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

210168

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02938
Client ID: B1WLC9

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.464	mg/L			20.00	0.46		08/06/08
Chloride	16887-00-6	LA-533-410	D	403	mg/L			1.01e+002	4.7		08/06/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		08/06/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		08/06/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	618	mg/L			1.01e+002	6.1		08/06/08
Sulfate	14808-79-8	LA-533-410	BD	5.62	mg/L			20.00	2.6		08/06/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	1.06e+04	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	2.08e+04	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	D	3.36e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	38.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02938
Client ID: B1WLC9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	4.72e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	1.40e+03	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

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

230168

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02939
Client ID: B1WLDO

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.232	mg/L			10.00	0.23		08/06/08
Chloride	16887-00-6	LA-533-410	D	226	mg/L			51.00	2.4		08/08/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/08/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/08/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	504	mg/L			51.00	3.1		08/06/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		08/06/08
ICP Metals Analysis, Grd H20 P Prep											08/15/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	BD	336	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	6.04e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	6.40e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	D	1.49e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02939
Client ID: B1WLD0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	8.26e +03	ug/L			5.00	3.6e +02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	225	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria (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 # W08GR02940
Client ID: B1WLD1

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.232	mg/L			10.00	0.23		08/06/08
Chloride	16887-00-6	LA-533-410	D	199	mg/L			1.01e+002	4.7		08/06/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/06/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/06/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	554	mg/L			1.01e+002	6.1		08/06/08
Sulfate	14808-79-8	LA-533-410	BD	5.05	mg/L			10.00	1.3		08/06/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	D	796	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	2.45e+04	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	D	2.35e+03	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	7.16e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	D	1.43e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	37.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

C - The Analyte was found in the Associated Blank.(inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

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

250168

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02940
Client ID: B1WLD1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	3.52e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-8	LA-505-411	D	259	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

270168

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02941
Client ID: B1WLD2

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.232	mg/L			10.00	0.23		08/06/08
Chloride	16887-00-6	LA-533-410	BD	1.44	mg/L			10.00	0.47		08/06/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/06/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.235	mg/L			10.00	0.12		08/06/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.606	mg/L			10.00	0.61		08/06/08
Sulfate	14808-79-8	LA-533-410	BD	9.72	mg/L			10.00	1.3		08/06/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	BD	144	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	5.72e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	BD	1.69e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	D	8.87e+03	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	22.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02941
Client ID: B1WLD2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	4.04e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	166	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

290168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02942
Client ID: B1WLD3

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.232	mg/L			10.00	0.23		08/07/08
Chloride	16887-00-6	LA-533-410	D	413	mg/L			51.00	2.4		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	69.7	mg/L			10.00	0.61		08/07/08
Sulfate	14808-79-8	LA-533-410	D	11.7	mg/L			10.00	1.3		08/07/08
ICP Metals Analysis, Grd H20 P Prep											08/15/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	8.22e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	BD	29.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	1.26e+04	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	BCD	60.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	9.99e+05	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	83.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-8	LA-505-411	BD	55.2	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

3010168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02942
Client ID: B1WLD3

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	2.24e+05	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	4.47e+03	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02943
Client ID: B1WLD4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.232	mg/L			10.00	0.23		08/06/08
Chloride	16887-00-6	LA-533-410	D	292	mg/L			51.00	2.4		08/06/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/06/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/06/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	431	mg/L			51.00	3.1		08/06/08
Sulfate	14808-79-8	LA-533-410	D	14.1	mg/L			10.00	1.3		08/06/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	5.48e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	9.85e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.39e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	29.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	BD	21.5	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	D	3.12e+03	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

320168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02943
Client ID: B1WLD4

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	9.68e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	1.82e+03	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02944
Client ID: B1WLD5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.232	mg/L			10.00	0.23		08/07/08
Chloride	16887-00-6	LA-533-410	D	193	mg/L			10.00	0.47		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DNU	< 0.128	mg/L			10.00	0.13		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	537	mg/L			1.01e + 002	6.1		08/07/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		08/07/08
ICP Metals Analysis, Grd H20 P Prep											08/15/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e + 02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e + 02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	3.32e + 03	ug/L			5.00	2.5e + 02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	8.15e + 03	ug/L			5.00	8.5e + 02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.44e + 06	ug/L			5.00	2.6e + 02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e + 02		08/15/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

340168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02944
Client ID: B1WLD5

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.30e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	387	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

CV - 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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02945
Client ID: B1WLD6

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.232	mg/L			10.00	0.23		08/07/08
Chloride	16887-00-6	LA-533-410	D	174	mg/L			10.00	0.47		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	370	mg/L			51.00	3.1		08/07/08
Sulfate	14808-79-8	LA-533-410	DU	< 1.32	mg/L			10.00	1.3		08/07/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	2.71e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	BD	3.67e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.06e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

350168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02945
Client ID: B1WLD6

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	7.10e+03	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	200	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02946
Client ID: B1WLD7

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.464	mg/L			20.00	0.46		08/07/08
Chloride	16887-00-6	LA-533-410	D	173	mg/L			20.00	0.94		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.256	mg/L			20.00	0.26		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	965	mg/L			1.01e+002	6.1		08/07/08
Sulfate	14808-79-8	LA-533-410	DU	< 2.64	mg/L			20.00	2.6		08/07/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	D	1.16e+03	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	8.84e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	BD	59.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	6.10e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.77e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

38 - Indicates results that have NOT been validated;

Report WGPP/ver. 5.2

Groundwater Remediation Program

88

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

D - Analyte was identified at a secondary dilution factor

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02946
Client ID: B1WLD7

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.37e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-8	LA-505-411	D	193	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02947
Client ID: B1WLD8

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.232	mg/L			10.00	0.23		08/07/08
Chloride	16887-00-6	LA-533-410	D	181	mg/L			10.00	0.47		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.128	mg/L			10.00	0.13		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	393	mg/L			51.00	3.1		08/07/08
Sulfate	14808-79-8	LA-533-410	D	22.7	mg/L			10.00	1.3		08/07/08
ICP Metals Analysis, Grd H2O P Prep											08/15/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.8e+02		08/15/08
Iron	7439-89-6	LA-505-411	BD	241	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	3.92e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	7.24e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.15e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-82-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

+ - 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)

U - Analyzed for but not detected above limiting criteria(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 # W08GR02947
Client ID: B1WLD8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.84e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	528	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

41 - Indicates results that have NOT been validated;

07/25/08 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

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

U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02948
Client ID: B1WLD9

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.464	mg/L			20.00	0.46		08/07/08
Chloride	16887-00-6	LA-533-410	D	109	mg/L			20.00	0.94		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DNU	< 0.256	mg/L			20.00	0.26		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.242	mg/L			20.00	0.24		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	356	mg/L			51.00	3.1		08/07/08
Sulfate	14808-79-8	LA-533-410	DU	< 2.64	mg/L			20.00	2.6		08/07/08
ICP Metals Analysis, Grd H20 P Prep											08/15/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/15/08
Iron	7439-89-6	LA-505-411	BD	368	ug/L			5.00	1.2e+02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	9.60e+03	ug/L			5.00	2.5e+02		08/15/08
Manganese	7439-96-5	LA-505-411	D	1.08e+03	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	8.33e+03	ug/L			5.00	8.5e+02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	1.77e+06	ug/L			5.00	2.6e+02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/15/08
Barium	7440-39-3	LA-505-411	BD	31.0	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-66-8	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

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

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

U - Analyzed for but not detected above limiting criteria.

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

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

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

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

42
07/08 - 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 # W08GR02948
Client ID: B1WLD9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	1.42e+04	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-8	LA-505-411	D	435	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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
 N - Spike sample recovery is outside control limits.(inorg)
 U - Analyzed for but not detected above limiting criteria.

+ - 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)

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

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

430168

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02949
Client ID: B1WLF0

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

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	DNU	< 0.232	mg/L			10.00	0.23		08/07/08
Chloride	16887-00-6	LA-533-410	D	215	mg/L			51.00	2.4		08/07/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DNU	< 0.128	mg/L			10.00	0.13		08/07/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.121	mg/L			10.00	0.12		08/07/08
Phosphate (P) by IC	PO4-P	LA-533-410	DU	< 0.606	mg/L			10.00	0.61		08/07/08
Sulfate	14808-79-8	LA-533-410	BD	9.15	mg/L			10.00	1.3		08/07/08
ICP Metals Analysis, Grd H20 P Prep											08/15/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		08/15/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e +02		08/15/08
Magnesium	7439-95-4	LA-505-411	D	8.26e +04	ug/L			5.00	2.5e +02		08/15/08
Manganese	7439-96-5	LA-505-411	D	1.62e +04	ug/L			5.00	20		08/15/08
Nickel	7440-02-0	LA-505-411	BD	28.5	ug/L			5.00	20		08/15/08
Potassium	7440-09-7	LA-505-411	D	5.02e +03	ug/L			5.00	8.5e +02		08/15/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Sodium	7440-23-5	LA-505-411	DX	8.01e +04	ug/L			5.00	2.6e +02		08/15/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		08/15/08
Barium	7440-39-3	LA-505-411	D	505	ug/L			5.00	20		08/15/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/15/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/15/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/15/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/15/08
Zinc	7440-68-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/15/08

MDL=Minimum Detection Limit

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02949
Client ID: B1WLF0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081555
Department: Inorganic
Sampled: 07/25/08
Received: 07/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	DX	4.44e+05	ug/L			5.00	3.6e+02		08/15/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/15/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/15/08
Strontium	7440-24-6	LA-505-411	D	2.07e+03	ug/L			5.00	20		08/15/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/15/08

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)

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

U - Analyzed for but not detected above limiting criteria(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 LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02932											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	218.1464		RPD			0.724	20.000		08/06/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	08/06/08
DUP	Phosphate (P) by IC	PO4-P	114.8126		RPD			0.453	20.000		08/06/08
DUP	Sulfate	14808-79-8	<1.32		RPD			n/a	20.000	U	08/06/08
MS	Chloride	16887-00-6	0.903333	90.787	% Recov	80.000	120.000				08/06/08
MS	Fluoride	16984-48-8	0.19527	39.609	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrite	NO2-N	0.47506	96.557	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrate	NO3-N	0.42183	94.581	% Recov	80.000	120.000				08/06/08
MS	Phosphate (P) by IC	PO4-P	0.975308	101.913	% Recov	80.000	120.000				08/06/08
MS	Sulfate	14808-79-8	1.91831	97.873	% Recov	80.000	120.000				08/06/08
MSD	Chloride	16887-00-6	0.911047	91.563	% Recov	80.000	120.000				08/06/08
MSD	Fluoride	16984-48-8	0.27413	55.604	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrite	NO2-N	0.42042	85.451	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrate	NO3-N	0.42089	94.370	% Recov	80.000	120.000				08/06/08
MSD	Phosphate (P) by IC	PO4-P	0.927522	96.920	% Recov	80.000	120.000				08/06/08
MSD	Sulfate	14808-79-8	1.87102	95.460	% Recov	80.000	120.000				08/06/08
SPK-RPD	Chloride	16887-00-6	91.563		RPD			0.851	20.000		08/07/08
SPK-RPD	Fluoride	16984-48-8	55.604		RPD			33.598	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	85.451		RPD			12.204	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	94.370		RPD			0.223	20.000		08/07/08
SPK-RPD	Phosphate (P) by IC	PO4-P	96.920		RPD			5.022	20.000		08/07/08
SPK-RPD	Sulfate	14808-79-8	95.460		RPD			2.496	20.000		08/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02941											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	1.485		RPD			2.966	20.000		08/06/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrate	NO3-N	0.2306		RPD			1.805	20.000		08/06/08
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	08/06/08
DUP	Sulfate	14808-79-8	9.3300		RPD			4.143	20.000		08/06/08
MS	Chloride	16887-00-6	0.960322	96.515	% Recov	80.000	120.000				08/06/08
MS	Fluoride	16984-48-8	0.448047	90.882	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrite	NO2-N	0.477161	96.984	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrate	NO3-N	0.432857	97.053	% Recov	80.000	120.000				08/06/08
MS	Phosphate (P) by IC	PO4-P	0.835629	87.318	% Recov	80.000	120.000				08/06/08
MS	Sulfate	14808-79-8	1.882745	96.058	% Recov	80.000	120.000				08/06/08
MSD	Chloride	16887-00-6	0.958086	96.290	% Recov	80.000	120.000				08/06/08
MSD	Fluoride	16984-48-8	0.438596	88.965	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrite	NO2-N	0.470584	95.647	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrate	NO3-N	0.438555	97.882	% Recov	80.000	120.000				08/06/08
MSD	Phosphate (P) by IC	PO4-P	0.828182	86.539	% Recov	80.000	120.000				08/06/08
MSD	Sulfate	14808-79-8	1.9046	97.173	% Recov	80.000	120.000				08/06/08
SPK-RPD	Chloride	16887-00-6	96.290		RPD			0.233	20.000		08/07/08
SPK-RPD	Fluoride	16984-48-8	88.965		RPD			2.132	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	95.647		RPD			1.388	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	97.882		RPD			0.851	20.000		08/07/08
SPK-RPD	Phosphate (P) by IC	PO4-P	86.539		RPD			0.896	20.000		08/07/08
SPK-RPD	Sulfate	14808-79-8	97.173		RPD			1.154	20.000		08/07/08
BATCH QC											
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 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	Chloride	16887-00-6	< 4.69e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Chloride	16887-00-6	< 4.69e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/06/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/07/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/06/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/07/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/06/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/06/08
LCS	Chloride	16887-00-6	197.8563	98.436	% Recov	80.000	120.000				08/06/08
LCS	Chloride	16887-00-6	196.1444	97.584	% Recov	80.000	120.000				08/06/08
LCS	Fluoride	16984-48-8	106.2576	106.684	% Recov	80.000	120.000				08/06/08
LCS	Fluoride	16984-48-8	106.6861	107.115	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrite	NO2-N	97.8863	98.477	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrite	NO2-N	98.6265	99.222	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrate	NO3-N	91.3528	101.390	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrate	NO3-N	91.4007	101.444	% Recov	80.000	120.000				08/06/08
LCS	Phosphate (P) by IC	PO4-P	188.8714	97.858	% Recov	80.000	120.000				08/06/08
LCS	Phosphate (P) by IC	PO4-P	191.8482	99.198	% Recov	80.000	120.000				08/06/08
LCS	Sulfate	14808-79-8	390.0053	98.486	% Recov	80.000	120.000				08/06/08
LCS	Sulfate	14808-79-8	390.2488	98.548	% Recov	80.000	120.000				08/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02934											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	18887-00-6	71.508		RPD			0.251	20.000		08/06/08
DUP	Fluoride	16984-48-8	0.414		RPD			n/a	20.000		08/06/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	08/06/08
DUP	Phosphate (P) by IC	PO4-P	51.3228		RPD			1.308	20.000		08/06/08
DUP	Sulfate	14808-79-8	1.4913		RPD			0.934	20.000		08/06/08
MS	Chloride	18887-00-6	1.01278	101.787	% Recov	80.000	120.000				08/06/08
MS	Fluoride	16984-48-8	0.42429	86.063	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrite	NO2-N	0.45897	93.287	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrate	NO3-N	0.45159	101.253	% Recov	80.000	120.000				08/06/08
MS	Phosphate (P) by IC	PO4-P	0.83195	86.933	% Recov	80.000	120.000				08/06/08
MS	Sulfate	14808-79-8	1.92577	98.254	% Recov	80.000	120.000				08/06/08
MSD	Chloride	18887-00-6	0.87365	87.804	% Recov	80.000	120.000				08/06/08
MSD	Fluoride	16984-48-8	0.45914	93.132	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrite	NO2-N	0.48539	98.657	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrate	NO3-N	0.48022	107.673	% Recov	80.000	120.000				08/06/08
MSD	Phosphate (P) by IC	PO4-P	0.92087	96.225	% Recov	80.000	120.000				08/06/08
MSD	Sulfate	14808-79-8	1.98189	101.117	% Recov	80.000	120.000				08/06/08
SPK-RPD	Chloride	18887-00-6	87.804		RPD			14.751	20.000		08/06/08
SPK-RPD	Fluoride	16984-48-8	93.132		RPD			7.890	20.000		08/06/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.657		RPD			5.595	20.000		08/06/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	107.673		RPD			6.146	20.000		08/06/08
SPK-RPD	Phosphate (P) by IC	PO4-P	96.225		RPD			10.146	20.000		08/06/08
SPK-RPD	Sulfate	14808-79-8	101.117		RPD			2.872	20.000		08/06/08

Lab ID: W08GR02963
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/26/08
 Receive Date: 07/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Chloride	16887-00-6	93.2961		RPD			4.915	20.000		08/06/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/06/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	08/06/08
DUP	Phosphate (P) by IC	PO4-P	203.8532		RPD			2.918	20.000		08/06/08
DUP	Sulfate	14808-79-8	<1.32		RPD			n/a	20.000	U	08/06/08
MS	Chloride	16887-00-6	0.947885	95.265	% Recov	80.000	120.000				08/06/08
MS	Fluoride	16984-48-8	0.44	89.249	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrite	NO2-N	0.48665	98.913	% Recov	80.000	120.000				08/06/08
MS	Nitrogen in Nitrate	NO3-N	0.45062	101.036	% Recov	80.000	120.000				08/06/08
MS	Phosphate (P) by IC	PO4-P	1.156382	120.834	% Recov	80.000	120.000				08/06/08
MS	Sulfate	14808-79-8	1.99207	101.636	% Recov	80.000	120.000				08/06/08
MSD	Chloride	16887-00-6	1.007373	101.244	% Recov	80.000	120.000				08/06/08
MSD	Fluoride	16984-48-8	0.43679	88.598	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrite	NO2-N	0.50732	103.114	% Recov	80.000	120.000				08/06/08
MSD	Nitrogen in Nitrate	NO3-N	0.46917	105.195	% Recov	80.000	120.000				08/06/08
MSD	Phosphate (P) by IC	PO4-P	1.040382	108.713	% Recov	80.000	120.000				08/06/08
MSD	Sulfate	14808-79-8	1.8298	93.357	% Recov	80.000	120.000				08/06/08
SPK-RPD	Chloride	16887-00-6	101.244		RPD			6.085	20.000		08/06/08
SPK-RPD	Fluoride	16984-48-8	88.598		RPD			0.732	20.000		08/06/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	103.114		RPD			4.159	20.000		08/06/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	105.195		RPD			4.033	20.000		08/06/08
SPK-RPD	Phosphate (P) by IC	PO4-P	108.713		RPD			10.561	20.000		08/06/08
SPK-RPD	Sulfate	14808-79-8	93.357		RPD			8.492	20.000		08/06/08
BATCH QC											
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	08/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 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	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Fluoride	16984-48-8	< 2.32e-2	n/a	mg/L	0.000	0.030			U	08/06/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/06/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/06/08
BLANK	Nitrogen in Nitrite	NO2-N	< 1.28e-2	n/a	mg/L	0.000	0.020			U	08/06/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/06/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/06/08
BLANK	Nitrogen in Nitrate	NO3-N	< 1.21e-2	n/a	mg/L	0.000	0.040			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Phosphate (P) by IC	PO4-P	< 6.06e-2	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/06/08
BLANK	Sulfate	14808-79-8	< 0.132	n/a	mg/L	0.000	0.200			U	08/06/08
LCS	Chloride	16887-00-6	197.228	98.123	% Recov	80.000	120.000				08/06/08
LCS	Chloride	16887-00-6	197.6976	98.357	% Recov	80.000	120.000				08/06/08
LCS	Fluoride	16984-48-8	98.1528	98.547	% Recov	80.000	120.000				08/06/08
LCS	Fluoride	16984-48-8	98.5458	98.942	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrite	NO2-N	97.7187	98.309	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrite	NO2-N	98.1484	98.741	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrate	NO3-N	94.1309	104.474	% Recov	80.000	120.000				08/06/08
LCS	Nitrogen in Nitrate	NO3-N	92.9333	103.145	% Recov	80.000	120.000				08/06/08
LCS	Phosphate (P) by IC	PO4-P	192.4197	99.493	% Recov	80.000	120.000				08/06/08
LCS	Phosphate (P) by IC	PO4-P	191.7262	99.135	% Recov	80.000	120.000				08/06/08
LCS	Sulfate	14808-79-8	397.4949	100.377	% Recov	80.000	120.000				08/06/08
LCS	Sulfate	14808-79-8	394.6387	99.656	% Recov	80.000	120.000				08/06/08

Lab ID: W08GR02949
 BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	220.5182		RPD			2.572	20.000		08/07/08
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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	08/07/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/07/08
DUP	Nitrogen in Nitrate	NO3-N	<0.121		RPD			n/a	20.000	U	08/07/08
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	08/07/08
DUP	Sulfate	14808-79-8	9.0416		RPD			1.176	20.000		08/07/08
MS	Chloride	16887-00-6	0.884825	88.927	% Recov	80.000	120.000				08/07/08
MS	Fluoride	16984-48-8	0.39167	79.446	% Recov	80.000	120.000				08/07/08
MS	Nitrogen in Nitrite	NO2-N	0.6038	122.724	% Recov	80.000	120.000				08/07/08
MS	Nitrogen in Nitrate	NO3-N	0.4587	102.848	% Recov	80.000	120.000				08/07/08
MS	Phosphate (P) by IC	PO4-P	0.80183	83.786	% Recov	80.000	120.000				08/07/08
MS	Sulfate	14808-79-8	1.91445	97.676	% Recov	80.000	120.000				08/07/08
MSD	Chloride	16887-00-6	0.941459	94.619	% Recov	80.000	120.000				08/07/08
MSD	Fluoride	16984-48-8	0.3866	78.418	% Recov	80.000	120.000				08/07/08
MSD	Nitrogen in Nitrite	NO2-N	0.60043	122.039	% Recov	80.000	120.000				08/07/08
MSD	Nitrogen in Nitrate	NO3-N	0.45234	101.422	% Recov	80.000	120.000				08/07/08
MSD	Phosphate (P) by IC	PO4-P	0.80197	83.800	% Recov	80.000	120.000				08/07/08
MSD	Sulfate	14808-79-8	1.89734	96.803	% Recov	80.000	120.000				08/07/08
SPK-RPD	Chloride	16887-00-6	94.619		RPD			6.202	20.000		08/07/08
SPK-RPD	Fluoride	16984-48-8	78.418		RPD			1.302	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	122.039		RPD			0.560	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	101.422		RPD			1.396	20.000		08/07/08
SPK-RPD	Phosphate (P) by IC	PO4-P	83.800		RPD			0.017	20.000		08/07/08
SPK-RPD	Sulfate	14808-79-8	96.803		RPD			0.898	20.000		08/07/08
<p>Lab ID: W08GR02971 BATCH QC ASSOCIATED WITH SAMPLE</p>											
DUP	Chloride	16887-00-6	1.5605		RPD			0.469	20.000		08/07/08
DUP	Fluoride	16984-48-8	<0.232		RPD			n/a	20.000	U	08/07/08
DUP	Nitrogen in Nitrite	NO2-N	<0.128		RPD			n/a	20.000	U	08/07/08
DUP	Nitrogen in Nitrate	NO3-N	0.2234		RPD			7.993	20.000		08/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: Anions by Ion Chromatography

Sample Date: 07/26/08
 Receive Date: 07/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Phosphate (P) by IC	PO4-P	<0.606		RPD			n/a	20.000	U	08/07/08
DUP	Sulfate	14808-79-8	9.3558		RPD			4.411	20.000		08/07/08
MS	Chloride	16887-00-6	0.977888	98.280	% Recov	80.000	120.000				08/07/08
MS	Fluoride	16984-48-8	0.413831	83.941	% Recov	80.000	120.000				08/07/08
MS	Nitrogen in Nitrite	NO2-N	0.49731	101.079	% Recov	80.000	120.000				08/07/08
MS	Nitrogen in Nitrate	NO3-N	0.445035	99.784	% Recov	80.000	120.000				08/07/08
MS	Phosphate (P) by IC	PO4-P	0.811512	84.797	% Recov	80.000	120.000				08/07/08
MS	Sulfate	14808-79-8	1.907159	97.304	% Recov	80.000	120.000				08/07/08
MSD	Chloride	16887-00-6	0.966824	97.168	% Recov	80.000	120.000				08/07/08
MSD	Fluoride	16984-48-8	0.439235	89.094	% Recov	80.000	120.000				08/07/08
MSD	Nitrogen in Nitrite	NO2-N	0.473824	96.306	% Recov	80.000	120.000				08/07/08
MSD	Nitrogen in Nitrate	NO3-N	0.43529	97.599	% Recov	80.000	120.000				08/07/08
MSD	Phosphate (P) by IC	PO4-P	0.799355	83.527	% Recov	80.000	120.000				08/07/08
MSD	Sulfate	14808-79-8	1.888567	96.355	% Recov	80.000	120.000				08/07/08
SPK-RPD	Chloride	16887-00-6	97.168		RPD			1.138	20.000		08/07/08
SPK-RPD	Fluoride	16984-48-8	89.094		RPD			5.956	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	96.306		RPD			4.836	20.000		08/07/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	97.599		RPD			2.214	20.000		08/07/08
SPK-RPD	Phosphate (P) by IC	PO4-P	83.527		RPD			1.509	20.000		08/07/08
SPK-RPD	Sulfate	14808-79-8	96.355		RPD			0.980	20.000		08/07/08
BATCH QC											
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Chloride	16887-00-6	<4.69e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Fluoride	16984-48-8	<2.32e-2	n/a	mg/L	0.000	0.030			U	08/07/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	08/07/08
BLANK	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	08/07/08

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 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	Nitrogen in Nitrite	NO2-N	<1.28e-2	n/a	mg/L	0.000	0.020			U	08/07/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	08/07/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	08/07/08
BLANK	Nitrogen in Nitrate	NO3-N	<1.21e-2	n/a	mg/L	0.000	0.040			U	08/07/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Phosphate (P) by IC	PO4-P	<6.06e-2	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	08/07/08
BLANK	Sulfate	14808-79-8	<0.132	n/a	mg/L	0.000	0.200			U	08/07/08
LCS	Chloride	16887-00-6	194.357	96.695	% Recov	80.000	120.000				08/07/08
LCS	Chloride	16887-00-6	195.8526	97.439	% Recov	80.000	120.000				08/07/08
LCS	Fluoride	16984-48-8	104.2042	104.623	% Recov	80.000	120.000				08/07/08
LCS	Fluoride	16984-48-8	98.4301	98.825	% Recov	80.000	120.000				08/07/08
LCS	Nitrogen in Nitrite	NO2-N	95.1801	95.755	% Recov	80.000	120.000				08/07/08
LCS	Nitrogen in Nitrite	NO2-N	95.0507	95.624	% Recov	80.000	120.000				08/07/08
LCS	Nitrogen in Nitrate	NO3-N	89.1057	98.896	% Recov	80.000	120.000				08/07/08
LCS	Nitrogen in Nitrate	NO3-N	88.8984	98.666	% Recov	80.000	120.000				08/07/08
LCS	Phosphate (P) by IC	PO4-P	182.1219	94.169	% Recov	80.000	120.000				08/07/08
LCS	Phosphate (P) by IC	PO4-P	176.9797	91.510	% Recov	80.000	120.000				08/07/08
LCS	Sulfate	14808-79-8	388.6524	98.145	% Recov	80.000	120.000				08/07/08
LCS	Sulfate	14808-79-8	389.2817	98.303	% Recov	80.000	120.000				08/07/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/24/08
 Receive Date: 07/24/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
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Lab ID: W08GR02918
 BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	4822	96.440	% Recov	75.000	125.000				08/15/08
MS	Aluminum	7429-90-5	4871	97.420	% Recov	75.000	125.000				08/15/08
MS	Arsenic	7440-38-2	5150	103.000	% Recov	75.000	125.000				08/15/08
MS	Barium	7440-39-3	2371	94.840	% Recov	75.000	125.000				08/15/08
MS	Calcium	7440-70-2	3930	78.600	% Recov	75.000	125.000				08/15/08
MS	Cadmium	7440-43-9	5085	101.700	% Recov	75.000	125.000				08/15/08
MS	Cobalt	7440-48-4	5154	103.080	% Recov	75.000	125.000				08/15/08
MS	Chromium	7440-47-3	4963	99.260	% Recov	75.000	125.000				08/15/08
MS	Copper	7440-50-8	4930	98.600	% Recov	75.000	125.000				08/15/08
MS	Iron	7439-89-6	4843.8	96.876	% Recov	75.000	125.000				08/15/08
MS	Potassium	7440-09-7	50559	101.118	% Recov	75.000	125.000				08/15/08
MS	Magnesium	7439-95-4	4723	94.460	% Recov	75.000	125.000				08/15/08
MS	Manganese	7439-96-5	4978	99.560	% Recov	75.000	125.000				08/15/08
MS	Molybdenum	7439-98-7	4985	99.700	% Recov	70.000	130.000				08/15/08
MS	Sodium	7440-23-5	4916	98.320	% Recov	75.000	125.000				08/15/08
MS	Nickel	7440-02-0	5098	101.960	% Recov	75.000	125.000				08/15/08
MS	Lead	7439-92-1	5420	108.400	% Recov	75.000	125.000				08/15/08
MS	Antimony	7440-36-0	5222	104.440	% Recov	75.000	125.000				08/15/08
MS	Strontium	7440-24-6	2377.8	95.112	% Recov	75.000	125.000				08/15/08
MS	Vanadium	7440-62-2	4880	97.600	% Recov	75.000	125.000				08/15/08
MS	Zinc	7440-66-6	5028	100.560	% Recov	75.000	125.000				08/15/08
MSD	Silver	7440-22-4	4812	96.240	% Recov	75.000	125.000				08/15/08
MSD	Aluminum	7429-90-5	5033	100.660	% Recov	75.000	125.000				08/15/08
MSD	Arsenic	7440-38-2	4970	99.400	% Recov	75.000	125.000				08/15/08
MSD	Barium	7440-39-3	2351	94.040	% Recov	75.000	125.000				08/15/08
MSD	Calcium	7440-70-2	3810	76.200	% Recov	75.000	125.000				08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H20 P

Sample Date: 07/24/08
 Receive Date: 07/24/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	5117	102.340	% Recov	75.000	125.000				08/15/08
MSD	Cobalt	7440-48-4	5149	102.980	% Recov	75.000	125.000				08/15/08
MSD	Chromium	7440-47-3	4938	98.760	% Recov	75.000	125.000				08/15/08
MSD	Copper	7440-50-8	4970	99.400	% Recov	75.000	125.000				08/15/08
MSD	Iron	7439-89-6	4845.8	96.916	% Recov	75.000	125.000				08/15/08
MSD	Potassium	7440-09-7	53049	106.098	% Recov	75.000	125.000				08/15/08
MSD	Magnesium	7439-95-4	4873	97.460	% Recov	75.000	125.000				08/15/08
MSD	Manganese	7439-96-5	4898	97.960	% Recov	75.000	125.000				08/15/08
MSD	Molybdenum	7439-98-7	4991	99.820	% Recov	75.000	125.000				08/15/08
MSD	Sodium	7440-23-5	5385	107.700	% Recov	75.000	125.000				08/15/08
MSD	Nickel	7440-02-0	5079	101.580	% Recov	75.000	125.000				08/15/08
MSD	Lead	7439-92-1	5450	109.000	% Recov	75.000	125.000				08/15/08
MSD	Antimony	7440-36-0	5334	106.680	% Recov	75.000	125.000				08/15/08
MSD	Strontium	7440-24-6	2359.8	94.392	% Recov	75.000	125.000				08/15/08
MSD	Vanadium	7440-62-2	4820	96.400	% Recov	75.000	125.000				08/15/08
MSD	Zinc	7440-66-6	5042	100.840	% Recov	75.000	125.000				08/15/08
SPK-RPD	Silver	7440-22-4	96.240		RPD			0.208	20.000		08/15/08
SPK-RPD	Aluminum	7429-90-5	100.660		RPD			3.271	20.000		08/15/08
SPK-RPD	Arsenic	7440-38-2	99.400		RPD			3.557	20.000		08/15/08
SPK-RPD	Barium	7440-39-3	94.040		RPD			0.847	20.000		08/15/08
SPK-RPD	Calcium	7440-70-2	76.200		RPD			3.101	20.000		08/15/08
SPK-RPD	Cadmium	7440-43-9	102.340		RPD			0.627	20.000		08/15/08
SPK-RPD	Cobalt	7440-48-4	102.980		RPD			0.097	20.000		08/15/08
SPK-RPD	Chromium	7440-47-3	98.760		RPD			0.505	20.000		08/15/08
SPK-RPD	Copper	7440-50-8	99.400		RPD			0.808	20.000		08/15/08
SPK-RPD	Iron	7439-89-6	96.916		RPD			0.041	20.000		08/15/08
SPK-RPD	Potassium	7440-09-7	106.098		RPD			4.807	20.000		08/15/08
SPK-RPD	Magnesium	7439-95-4	97.460		RPD			3.126	20.000		08/15/08
SPK-RPD	Manganese	7439-96-5	97.960		RPD			1.620	20.000		08/15/08
SPK-RPD	Molybdenum	7439-98-7	99.820		RPD			0.120	20.000		08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/24/08
 Receive Date: 07/24/08

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	107.700		RPD			20.440	20.000		08/15/08
SPK-RPD	Nickel	7440-02-0	101.580		RPD			0.373	20.000		08/15/08
SPK-RPD	Lead	7439-92-1	109.000		RPD			0.552	20.000		08/15/08
SPK-RPD	Antimony	7440-38-0	106.680		RPD			2.122	20.000		08/15/08
SPK-RPD	Strontium	7440-24-6	94.392		RPD			0.760	20.000		08/15/08
SPK-RPD	Vanadium	7440-62-2	96.400		RPD			1.237	20.000		08/15/08
SPK-RPD	Zinc	7440-66-6	100.840		RPD			0.278	20.000		08/15/08
BATCH QC											
BLANK	Silver	7440-22-4	13	13.000	ug/L						08/15/08
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	08/15/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	08/15/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	08/15/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	08/15/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	08/15/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	08/15/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	08/15/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	08/15/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	08/15/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	08/15/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	08/15/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	08/15/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	08/15/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	08/15/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	08/15/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	08/15/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	08/15/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	08/15/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	08/15/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 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	965	96.500	% Recov	80.000	120.000				08/15/08
LCS	Aluminum	7429-90-5	973.8	97.380	% Recov	80.000	120.000				08/15/08
LCS	Arsenic	7440-38-2	1040	104.000	% Recov	80.000	120.000				08/15/08
LCS	Barium	7440-39-3	471	94.200	% Recov	80.000	120.000				08/15/08
LCS	Calcium	7440-70-2	1081	108.100	% Recov	80.000	120.000				08/15/08
LCS	Cadmium	7440-43-9	1011	101.100	% Recov	80.000	120.000				08/15/08
LCS	Cobalt	7440-48-4	1018	101.800	% Recov	80.000	120.000				08/15/08
LCS	Chromium	7440-47-3	980.8	98.080	% Recov	80.000	120.000				08/15/08
LCS	Copper	7440-50-8	988	98.600	% Recov	80.000	120.000				08/15/08
LCS	Iron	7439-89-6	978.5	97.850	% Recov	80.000	120.000				08/15/08
LCS	Potassium	7440-09-7	10370	103.700	% Recov	80.000	120.000				08/15/08
LCS	Magnesium	7439-95-4	974.1	97.410	% Recov	80.000	120.000				08/15/08
LCS	Manganese	7439-96-5	982	98.200	% Recov	80.000	120.000				08/15/08
LCS	Molybdenum	7439-98-7	995.9	99.590	% Recov	80.000	120.000				08/15/08
LCS	Sodium	7440-23-5	1072	107.200	% Recov	80.000	120.000				08/15/08
LCS	Nickel	7440-02-0	1007	100.700	% Recov	80.000	120.000				08/15/08
LCS	Lead	7439-92-1	1080	108.000	% Recov	80.000	120.000				08/15/08
LCS	Antimony	7440-36-0	1028	102.800	% Recov	80.000	120.000				08/15/08
LCS	Strontium	7440-24-6	476.5	95.300	% Recov	80.000	120.000				08/15/08
LCS	Vanadium	7440-62-2	965	96.500	% Recov	80.000	120.000				08/15/08
LCS	Zinc	7440-66-6	1002	100.200	% Recov	80.000	120.000				08/15/08

Lab ID: W08GR02942
BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	4750	95.000	% Recov	75.000	125.000				08/15/08
MS	Aluminum	7429-90-5	5007	100.140	% Recov	75.000	125.000				08/15/08
MS	Arsenic	7440-38-2	5170	103.400	% Recov	75.000	125.000				08/15/08
MS	Barium	7440-39-3	2447	97.880	% Recov	75.000	125.000				08/15/08
MS	Calcium	7440-70-2	5100	102.000	% Recov	75.000	125.000				08/15/08
MS	Cadmium	7440-43-9	4962	99.240	% Recov	75.000	125.000				08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Cobalt	7440-48-4	4895	97.900	% Recov	75.000	125.000				08/15/08
MS	Chromium	7440-47-3	4908	98.160	% Recov	75.000	125.000				08/15/08
MS	Copper	7440-50-8	4850	97.000	% Recov	75.000	125.000				08/15/08
MS	Iron	7439-89-6	4880	97.600	% Recov	75.000	125.000				08/15/08
MS	Potassium	7440-09-7	50450	100.900	% Recov	75.000	125.000				08/15/08
MS	Magnesium	7439-95-4	5205	104.100	% Recov	75.000	125.000				08/15/08
MS	Manganese	7439-96-5	4951	99.020	% Recov	75.000	125.000				08/15/08
MS	Molybdenum	7439-98-7	4865	97.300	% Recov	70.000	130.000				08/15/08
MS	Sodium	7440-23-5	87200	1744.000	% Recov	75.000	125.000				08/15/08
MS	Nickel	7440-02-0	4852	97.040	% Recov	75.000	125.000				08/15/08
MS	Lead	7439-92-1	4990	99.800	% Recov	75.000	125.000				08/15/08
MS	Antimony	7440-36-0	5013	100.260	% Recov	75.000	125.000				08/15/08
MS	Strontium	7440-24-6	2452	98.080	% Recov	75.000	125.000				08/15/08
MS	Vanadium	7440-62-2	4900	98.000	% Recov	75.000	125.000				08/15/08
MS	Zinc	7440-66-6	4962.8	99.256	% Recov	75.000	125.000				08/15/08
MSD	Silver	7440-22-4	4710	94.200	% Recov	75.000	125.000				08/15/08
MSD	Aluminum	7429-90-5	4924	98.480	% Recov	75.000	125.000				08/15/08
MSD	Arsenic	7440-38-2	5020	100.400	% Recov	75.000	125.000				08/15/08
MSD	Barium	7440-39-3	2437	97.480	% Recov	75.000	125.000				08/15/08
MSD	Calcium	7440-70-2	12400	248.000	% Recov	75.000	125.000				08/15/08
MSD	Cadmium	7440-43-9	4898	97.960	% Recov	75.000	125.000				08/15/08
MSD	Cobalt	7440-48-4	4907	98.140	% Recov	75.000	125.000				08/15/08
MSD	Chromium	7440-47-3	4917	98.340	% Recov	75.000	125.000				08/15/08
MSD	Copper	7440-50-8	4770	95.400	% Recov	75.000	125.000				08/15/08
MSD	Iron	7439-89-6	4929	98.580	% Recov	75.000	125.000				08/15/08
MSD	Potassium	7440-09-7	49110	98.220	% Recov	75.000	125.000				08/15/08
MSD	Magnesium	7439-95-4	5145	102.900	% Recov	75.000	125.000				08/15/08
MSD	Manganese	7439-96-5	4941	98.820	% Recov	75.000	125.000				08/15/08
MSD	Molybdenum	7439-98-7	4860	97.200	% Recov	75.000	125.000				08/15/08
MSD	Sodium	7440-23-5	95200	1904.000	% Recov	75.000	125.000				08/15/08

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/25/08
 Receive Date: 07/25/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Nickel	7440-02-0	4823	96.460	% Recov	75.000	125.000				08/15/08
MSD	Lead	7439-92-1	4950	99.000	% Recov	75.000	125.000				08/15/08
MSD	Antimony	7440-36-0	4960	99.200	% Recov	75.000	125.000				08/15/08
MSD	Strontium	7440-24-6	2527	101.080	% Recov	75.000	125.000				08/15/08
MSD	Vanadium	7440-62-2	4900	98.000	% Recov	75.000	125.000				08/15/08
MSD	Zinc	7440-66-6	4902.8	98.056	% Recov	75.000	125.000				08/15/08
SPK-RPD	Silver	7440-22-4	94.200		RPD			0.846	20.000		08/15/08
SPK-RPD	Aluminum	7429-90-5	98.480		RPD			1.672	20.000		08/15/08
SPK-RPD	Arsenic	7440-38-2	100.400		RPD			2.944	20.000		08/15/08
SPK-RPD	Barium	7440-39-3	97.480		RPD			0.410	20.000		08/15/08
SPK-RPD	Calcium	7440-70-2	248.000		RPD			83.429	20.000		08/15/08
SPK-RPD	Cadmium	7440-43-9	97.960		RPD			1.298	20.000		08/15/08
SPK-RPD	Cobalt	7440-48-4	98.140		RPD			0.245	20.000		08/15/08
SPK-RPD	Chromium	7440-47-3	98.340		RPD			0.183	20.000		08/15/08
SPK-RPD	Copper	7440-50-8	95.400		RPD			1.663	20.000		08/15/08
SPK-RPD	Iron	7439-89-6	98.580		RPD			0.999	20.000		08/15/08
SPK-RPD	Potassium	7440-09-7	98.220		RPD			2.692	20.000		08/15/08
SPK-RPD	Magnesium	7439-95-4	102.900		RPD			1.159	20.000		08/15/08
SPK-RPD	Manganese	7439-96-5	98.820		RPD			0.202	20.000		08/15/08
SPK-RPD	Molybdenum	7439-98-7	97.200		RPD			0.103	20.000		08/15/08
SPK-RPD	Sodium	7440-23-5	1904.000		RPD			8.772	20.000		08/15/08
SPK-RPD	Nickel	7440-02-0	96.460		RPD			0.599	20.000		08/15/08
SPK-RPD	Lead	7439-92-1	99.000		RPD			0.805	20.000		08/15/08
SPK-RPD	Antimony	7440-36-0	99.200		RPD			1.063	20.000		08/15/08
SPK-RPD	Strontium	7440-24-6	101.080		RPD			3.013	20.000		08/15/08
SPK-RPD	Vanadium	7440-62-2	98.000		RPD			0.000	20.000		08/15/08
SPK-RPD	Zinc	7440-66-6	98.056		RPD			1.216	20.000		08/15/08
BATCH QC											
BLANK	Silver	7440-22-4	20	20.000	ug/L						08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555
 Matrix: WATER
 Test: ICP Metals Analysis, Grd H2O P

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	08/15/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	08/15/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	08/15/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	08/15/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	08/15/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	08/15/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	08/15/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	08/15/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	08/15/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	08/15/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	08/15/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	08/15/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	08/15/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	08/15/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	08/15/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	08/15/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	08/15/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	08/15/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	08/15/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	08/15/08
LCS	Silver	7440-22-4	968	96.800	% Recov	80.000	120.000				08/15/08
LCS	Aluminum	7429-90-5	988	98.800	% Recov	80.000	120.000				08/15/08
LCS	Arsenic	7440-38-2	1030	103.000	% Recov	80.000	120.000				08/15/08
LCS	Barium	7440-39-3	478	95.800	% Recov	80.000	120.000				08/15/08
LCS	Calcium	7440-70-2	1059	105.900	% Recov	80.000	120.000				08/15/08
LCS	Cadmium	7440-43-9	1014	101.400	% Recov	80.000	120.000				08/15/08
LCS	Cobalt	7440-48-4	1026	102.600	% Recov	80.000	120.000				08/15/08
LCS	Chromium	7440-47-3	988.4	98.840	% Recov	80.000	120.000				08/15/08
LCS	Copper	7440-50-8	998	99.800	% Recov	80.000	120.000				08/15/08
LCS	Iron	7439-89-6	991.5	99.150	% Recov	80.000	120.000				08/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081555

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	10200	102.000	% Recov	80.000	120.000				08/15/08
LCS	Magnesium	7439-95-4	967.4	96.740	% Recov	80.000	120.000				08/15/08
LCS	Manganese	7439-96-5	983	98.300	% Recov	80.000	120.000				08/15/08
LCS	Molybdenum	7439-98-7	1003	100.300	% Recov	80.000	120.000				08/15/08
LCS	Sodium	7440-23-5	1040	104.000	% Recov	80.000	120.000				08/15/08
LCS	Nickel	7440-02-0	1010	101.000	% Recov	80.000	120.000				08/15/08
LCS	Lead	7439-92-1	1090	109.000	% Recov	80.000	120.000				08/15/08
LCS	Antimony	7440-36-0	1042	104.200	% Recov	80.000	120.000				08/15/08
LCS	Strontium	7440-24-6	471.3	94.260	% Recov	80.000	120.000				08/15/08
LCS	Vanadium	7440-62-2	975	97.500	% Recov	80.000	120.000				08/15/08
LCS	Zinc	7440-66-6	1010	101.000	% Recov	80.000	120.000				08/15/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081555
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		IC Anion - MS/MSD recoveries out of limits for fluoride and nitrite in sample W08GR02949; Data N-flagged. DTS ICP-AES: Prep Blanks- Silver >MDL; C flags as appropriate Matrix Spikes- Sodium, Calcium samples >4X spiking level; MS/MSD recovery data not valid where X flagged. "B" flags used where sample <5X MDL

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20081555

Report Date: 26-aug-2008

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ATTACHMENT 5

SAMPLE RECEIPT INFORMATION

Consisting of 5 pages
Including cover page

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

File

ACKNOWLEDGMENT OF SAMPLES RECEIVED

08/11/08
tdj

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20081555
Project#: F06-027
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 07/25/08. 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
W08GR02937	B1WLC8	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02938	B1WLC9	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02939	B1WLD0	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02940	B1WLD1	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02941	B1WLD2	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02942	B1WLD3	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02943	B1WLD4	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02944	B1WLD5	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02945	B1WLD6	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02946	B1WLD7	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02947	B1WLD8	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02948	B1WLD9	TRENT @GPP6010 @IC-30	Water	07/25/08
W08GR02949	B1WLF0	TRENT @GPP6010 @IC-30	Water	07/25/08

Test Acronym Description

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

COLLECTOR

D. WERSB

SAMPLING LOCATION

100NR2 Syn.Apatite Inj.#5-Post-Inj.Smpls-Day0

ICE CHEST NO.

GRP-03-027

SHIPPED TO

Waste Sampling & Characterization

20081555

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

COMPANY CONTACT

FABRE, RJ

PROJECT DESIGNATION

100-N Apatite Barrier Performance Monitoring

FIELD LOGBOOK NO.

HNF-N-585-11

OFFSITE PROPERTY NO.

TELEPHONE NO.

373-2774

ACTUAL SAMPLE DEPTH

PROJECT COORDINATOR

TRENT, SJ

SAF NO.

F06-027

COA

122561E520

BILL OF LADING/AIR BILL NO.

PRICE CODE 7G

AIR QUALITY

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

DATA TURNAROUND

15 Days / 30 Days

PRESERVATION

HNO3 to pH <2 Cool-4C

TYPE OF CONTAINER

P P

NO. OF CONTAINER(S)

1 1

VOLUME

250mL 120mL

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1WLC8	WATER	7-25-8	0912	X	X				
B1WLC9	WATER		0935	X	X				
B1WLD0	WATER		0903	X	X				
B1WLD1	WATER		0900	X	X				
B1WLD2	WATER		0915	X	X				

ICED

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME
D. WERSB / J. W. WITH	7-25-8 / 1035
K. B. HULSE / J. Z. HULST	7-25-08 / 1110

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN	DATE/TIME
K. B. HULSE / J. Z. HULST	7-25-8 / 1035
J. Z. HULST / J. Z. HULST	7/25/08 1110

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
FINAL SAMPLE DISPOSITION DISPOSAL METHOD

TITLE DATE/TIME
DISPOSED BY DATE/TIME

COLLECTOR

D. Wolf

SAMPLING LOCATION

100NR2 Syn. Apatite Inj. #5-Post-Inj. Smpls-Day0

ICE CHEST NO.

GRP-03-027

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

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

POSSIBLE SAMPLE HAZARDS/ REMARKS

Contains Radioactive Material at concentrations that 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

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

OFFSITE PROPERTY NO.

BILL OF LADING/AIR BILL NO.

PRESERVATION

HNO3 to pH <2 Cool~4C

TYPE OF CONTAINER

P P

NO. OF CONTAINER(S)

1 1

VOLUME

250ml 120ml

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*
B1WLD3 2942	WATER
B1WLD4 2943	WATER
B1WLD5 2944	WATER
B1WLD6 2945	WATER
B1WLD7 2944	WATER

SAMPLE DATE	SAMPLE TIME		
7-25-8	0820	X	X
	0830	X	X
	0840	X	X
	0810	X	X
	0808	X	X

ICED

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME
<i>D. Wolf / D. Wolf</i>	<i>7-25-8/1035</i>
<i>KS Hulse / KS Hulse</i>	<i>7-25-8/110</i>
RELINQUISHED BY/REMOVED FROM	DATE/TIME

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN	DATE/TIME
<i>KS Hulse / KS Hulse</i>	<i>7-25-8/1035</i>
<i>KS Hulse / KS Hulse</i>	<i>7/25/08 1110</i>
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}

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LABORATORY SECTION RECEIVED BY
FINAL SAMPLE DISPOSITION DISPOSAL METHOD

TITLE DATE/TIME

DISPOSED BY DATE/TIME

COLLECTOR

D. WEBB

SAMPLING LOCATION

100NR2 Syn.Apatite Inj. #5-Post-Inj.Smpls-Day0

ICE CHEST NO.

GRP-03-027

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

- A=Air
- DL=Drum
- Liquids
- DS=Drum
- Solids
- L=Liquid
- O=Oil
- S=Soil
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- W=Water
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- X=Other

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SPECIAL HANDLING AND/OR STORAGE

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

OFFSITE PROPERTY NO.

BILL OF LADING/AIR BILL NO.

PRESERVATION

HNO3 to pH <2 Cool=4C

TYPE OF CONTAINER

P P

NO. OF CONTAINER(S)

1 1

VOLUME

250mL 120mL

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1WLD8 2947	WATER	7-25-8	0850	X	X				
B1WLD9 2948	WATER		0835	X	X				
B1WLF0 2949	WATER		0825	X	X				
				X	X				
				X	X				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME
<i>D. Webb / D. Webb</i>	7-25-8 / 1035
<i>KB Hulse / KB Hulse</i>	7-25-8 / 1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN	DATE/TIME
<i>KB Hulse / KB Hulse</i>	7-25-8 / 1035
<i>[Signature]</i>	7-25-8 / 1110
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}

68 of 68
LABORATORY SECTION RECEIVED BY
FINAL SAMPLE DISPOSITION DISPOSAL METHOD

TITLE DATE/TIME
DISPOSED BY DATE/TIME