G

Spring 2009

	A	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																
2																
3	Engineers, Inc															
4	301 W. College Ave, Suite 1												Date Submitted	May 13, 2009		
5	Silver City, NM 88061												Date Reported	May 27, 2009		
6																
7	Tracking Number:	105099027	105099028	105099029	105099030	105099031	105099032	105099140	105099141	105099142	105099143	105099144	105099145	105099146	105099147	105099148
8	Sample Description:	NW-5	NW-7	NW-9	NW-10	Arrmaz	Lowry	MW05-01	MW05-02	MW05-03	MW05-04	MW05-05	JRS-7	JRS-10	JRS-11	A-2
9	Date & Time Collected:	05-12-2009	05-12-2009	05-12-2009	05-12-2009	05-12-2009	05-12-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009	05-14-2009
10	Alkalinity, BICARB as CaCO3	420	280	180	400	760	180	380	400	460	400	440	400	460	260	380
11	Alkalinity, CARB as CaCO3 mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
12	Alkalinity, TOTAL as CaCO3 mg/L	420	280	180	400	760	180	380	400	460	400	440	400	460	260	380
13	Ammonia:N mg/L	< 0.05	< 0.05	15.89	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.48	3.94	< 0.05	< 0.05
14	Chloride mg/L	5	17	91	6	4	54	4	3	4	20	4	56	35	9	11
15	Nitrate:N mg/L	1.34	3.69	46.00	< 1.00	< 1.00	18.31	1.60	< 1.00	< 1.00	3.38	1.87	20.82	21.26	1.53	< 1.00
16	Ortho Phos:P mg/L	1.69	0.07	9.82	0.03	0.03	0.07	0.08	0.04	0.03	0.05	0.63	2.05	4.68	0.03	0.03
17	Specific Conductance us/cm	845	776	1793	875	1172	704	708	712	846	792	832	1611	1537	585	713
18	Sulfate mg/L	117	146	674	165	32	53	24	38	72	26	56	500	393	55	62
19	Total Dissolved Solids mg/L	630	624	1578	680	810	466	454	458	588	510	340	1368	1256	374	480
20	Total Kjeldahl Nitrogen:N mg/L	< 0.5	< 0.5	17.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	4.3	< 0.5	< 0.5
21	Total Phos:P mg/L	1.73	0.08	16.17	0.04	0.04	0.07	0.08	0.05	0.03	0.05	0.60	2.10	4.63	0.03	0.03
22	Total Suspended Solids mg/L	< 2	< 2	89	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	29
23	pH units	6.4	7.5	6.2	7.3	6.9	7.5	7.1	7.0	7.1	7.1	6.6	6.0	6.1	7.3	7.4
24	Aluminum mg/L 200.8	< 0.01	< 0.01	1.93	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
25	Antimony mg/L 200.8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
26	Arsenic mg/L 200.8	0.002	0.001	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.004	0.005	< 0.001	< 0.001
27	Barium mg/L 200.8	0.031	0.125	0.003	0.080	0.090	0.033	0.053	0.052	0.081	0.047	0.056	0.067	0.077	0.028	0.055
28	Beryllium mg/L 200.8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
29	Cadmium mg/L 200.8	< 0.001	< 0.001	0.015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
30	Calcium mg/L 200.8	109.10	98.40	173.00	110.20	199.60	79.78	79.40	78.68	99.70	94.60	94.17	216.30	190.10	83.93	100.70
31	Chromium mg/L 200.8	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
32	Cobalt mg/L 200.8	< 0.001	< 0.001	0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
33	Copper mg/L 200.8	0.004	0.001	0.004	< 0.001	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001
34	Iron mg/L 200.8	0.02	< 0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01	0.03	0.02	< 0.01	< 0.01
35	Lead mg/L 200.8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
36	Magnesium mg/L 200.8	38.30	29.40	84.57	52.33	56.27	17.24	40.82	39.55	54.58	48.56	45.33	67.85	65.95	14.84	42.91
37	Manganese mg/L 200.8	0.025	< 0.001	2.003	0.471	< 0.001	< 0.001	< 0.001	0.063	0.035	< 0.001	< 0.001	0.596	0.139	< 0.001	< 0.001
38	Mercury mg/L 200.8	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
39	Nickel mg/L 200.8	0.001	0.005	0.107	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.011	0.004	< 0.001	< 0.001
40	Potassium mg/L 200.8	3.65	4.26	8.53	2.43	4.42	4.14	2.50	1.59	2.84	2.79	2.75	7.49	7.09	1.06	0.95
41	Selenium mg/L 200.8	0.013	0.018	0.010	< 0.001	< 0.001	0.003	< 0.001	< 0.001	0.001	< 0.001	0.002	0.010	0.009	0.049	< 0.001
42	Silver mg/L 200.8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
43	Sodium mg/L 200.8	12.46	10.97	75.57	11.13	5.80	28.00	6.33	3.84	6.61	7.39	11.35	66.63	59.81	7.58	4.62
44	Thallium mg/L 200.8	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
45	Vanadium mg/L 200.8	0.003	0.003	0.016	< 0.001	0.001	0.004	0.002	< 0.001	< 0.001	0.003	0.002	0.003	0.004	< 0.001	0.002
46	Zinc mg/L 200.8	0.009	0.002	0.090	0.002	0.211	0.072	0.004	0.002	0.005	0.002	0.002	0.031	0.035	0.084	0.003
47	Fluoride mg/L	0.6	< 0.5	21.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
48	Total Nitrogen	1.3	3.7	63.3	< 0.5	< 0.5	18.3	1.6	< 0.5	< 0.5	3.4	1.9	22.5	25.6	1.5	< 0.5
49	Gross Alpha pci/l															
50	Beta Particles pCi/l															
51																
52	G. Ryan Pattie/bd															
53	Lab Director															
54																
55	ALL STANDARDS ARE N.I.S.T. TRACEABLE															
56	**TKN + Nitrate value expressed as N mg/L															
57	IAS-EnviroChem, warrants the test results, from accepted analytical work, to be of precision normal for sample type and methodology															
58	employed for each sample submitted. IAS-EnviroChem disclaims any other warranties, express or implied, including warranty of															
59	fitness for a particular purpose and warranty which the client used test results. Any analytical work performed must be governed															
60	by the terms and conditions set forth herein.															

NUW 004952

SKINNER

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0601P

August 2006

REPORT

REPORT

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

ENGINEERS INC

August 23, 2006

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations - Agrium
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Spring 2006 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0601P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Spring 2006 assessment activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO).

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

8/23/06

Wayne A. Ericson, P.E.
Engineers Inc.

Cc: Alan Skinner
Attachments

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com

Our vision is to be the leading professional team, serving our communities with quality and integrity.

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APPENDIX A Monitor Well Purge/Sampling Data Sheets Spring 2006
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1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2**.

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, and June 2006. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-10, MW05-1 through 5, MWA and MWB);
- collection of ground water samples from 18 monitoring wells, four on-site production wells, three offsite production wells (Simplot wells JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);
- collection of quality assurance samples, including duplicate samples and an equipment blank;
- submittal of the ground water samples to IAS-Envirochem, Inc., ACZ Laboratories and Severn Trent Laboratories, Inc. (STL) for laboratory analysis of the parameters listed in the approved GWMP; and,
- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of the laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1
Summary of Assessment Activities and Completion Dates

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	May 2003 – October 2005	June 2006
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X

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2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-10, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2,** and the locations of the wells are shown on **Figure 3**. These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data
Conda Phosphate Operations
Spring 2006

Well ID	Data Collection Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Est. Ground Water Elevation (feet)
A-1	June 2006	6,221.7	32.7	6189.0
A-2	June 2006	6,156.8	11.9	6144.9
A-3	June 2006	6,149.8	89.4	6060.4
A-4	June 2006	6,149.8	38.3	6111.5
A-5	June 2006	6,150.4	83.4	6067.0
A-6	June 2006	6,150.2	106.0	6044.2
A-7	June 2006	6150.5	86.7	6063.8
A-8	June 2006	6,149.0	112.0	6037.0
A-9A	June 2006	6,146.3	106.6	6039.7
A-10	June 2006	6,124.3	132.3	5992.0
A-2A	June 2006	6,161.0*	12.6	6148.4
MWA	June 2006	6,155.75	52.0	6103.8
MWB	June 2006	6,162.53	59.3	6103.2
MW05-1	June 2006	6160 *	102.4	6057.6
MW05-2	June 2006	6160*	15.7	6144.3
MW05-3	June 2006	6152*	48.0	6104
MW05-4	June 2006	6174*	171.5	6002
MW05-05	June 2006	6178*	178.2	5999.8

*Estimated from topographic map

2.2 Ground Water Sampling

In June 2006, ground water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; two plant site monitoring wells
- Five new monitoring wells associated with the Phase I gypsum stack expansion
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well, located at the Arr-Maz Products, Inc. facility; and,
- Duplicate samples of production wells NW-9 and 10, and
- The domestic wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3** on page 9.

Table 3
Summary of Field Parameter Readings
Spring 2005

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	6.90	472	16.2
A-2	7.65	765	10.0
A-3	6.48	1413	9.9
A-4	6.20	3150	9.1
A-5	7.13	1295	10.6
A-6	6.20	3300	9.9
A-7	6.37	4320	14.8
A-8	6.30	4570	13.9
A-9A	6.54	2640	11.0
A-10	7.20	1032	9.7
A-2A	7.52	760	7.8
*NW-1	N/A	N/A	N/A
*NW-5	N/A	N/A	N/A
NW-7	N/A	849	9.0
NW-8	N/A	653	12.3
NW-9	N/A	1474	10.1
NW-10	N/A	1115	7.5
*MT Fuel	N/A	N/A	N/A
JRS 10	N/A	1576	9.6
JRS 11	N/A	452	9.9
ARR-MAZ	N/A	1243	19.8
LOWRY	N/A	769	8.3
TORGESEN	N/A	1276	8.1
MWA	5.76	3910	10.4
MWB	5.66	1980	12.7
JRS-8	6.17	1818	9.0
MW05-1	7.54	752	8.7
MW05-2	7.37	824	7.7
MW05-3	7.60	944	7.4
MW05-4	7.40	803	8.2
MW05-5	6.86	970	8.0

Notes: 1) µS/cm = microSiemens per centimeter; °C = degrees Celsius
* well not sampled; pumps not working

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were operating in an "on demand" mode. At the Arr-Maz facility, the water samples were collected from a tank discharge line, inside the plant building. Prior to sample collection, sampling ports or

valves in the piping on the downstream side of each well pump were opened to remove stagnant water from the fitting. At each location, a minimum of 10 to 15 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.03	mg/L
Ammonia (Total)	350.1	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.9	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	300.0	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.9	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	300.0	1	mg/L
Nitrogen (Total) and TKN	351.2	0.5	mg/L
Orthophosphate	365.2	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.2	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

Two duplicate samples were taken at production wells NW-9 and 10. These samples were sent to ACZ Laboratories as comparison samples to the overall testing done by IAS Envirochem.

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for June 2006 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated upward as compared to October 2005. Water levels in wells A-2 and A-2A probably reflecting the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through June 2006 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevation October 2005 (ft. NGVD)	Ground Water Elevations June 2006 (ft. NGVD)	Ground Water Elevation Difference from 10/05 – 6/06 (feet)
A-1	6190.7	6189.0	-1.7
A-2	6,146.0.0	6144.9	-1.1
A-3	<6,041.8	6060.4	+18.6
A-4	6,062.8	6111.5	+48.75
A-5	6,029.2	6067.0	+37.8
A-6	6033.4	6044.2	+10.8
A-7	<6,029.3	6063.8	≥34.5
A-8	<6,021.9	6037.0	≥15.1
A-9/A-9A	6,010.4	6039.7	+29.3
A-10	5,983.3	5992.0	+8.7
A-2A	6,148.0	6148.4	+0.4

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results, along with a comparison of those results with the referenced water quality standards, is provided in a table contained in **Appendix C**. As shown in the table, the individual parameter concentrations that exceed the ground water quality standards are highlighted in bold print. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-3, A-4, A-7, A-8, A-9A, A-10, JRS-8 and JRS-10) reveal levels of TDS above the state standards. Production wells NW-7, NW-9, and NW-10 also revealed TDS levels above 500 mg/l.

Maps of TDS and ammonia concentrations for June 2006 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed higher water levels as compared to sampling intervals in October 2005. Wells A-3, A-6, A-7, and A-8 had water in them after several sampling periods of being dry, and were sampled.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient and plant monitor wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in upgradient wells (wells A-1, NW-7, NW-8 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the October 2005 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Production well NW-9, and plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous and aluminum, as compared to the up gradient background wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the upgradient wells) collected from the monitoring wells west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The newly installed monitoring wells around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

9) The results of the two quality control samples (NW-9 and 10) sent to ACZ Laboratories were generally very similar to the results provided by IAS Envirochem.

10) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

5.0 REFERENCES

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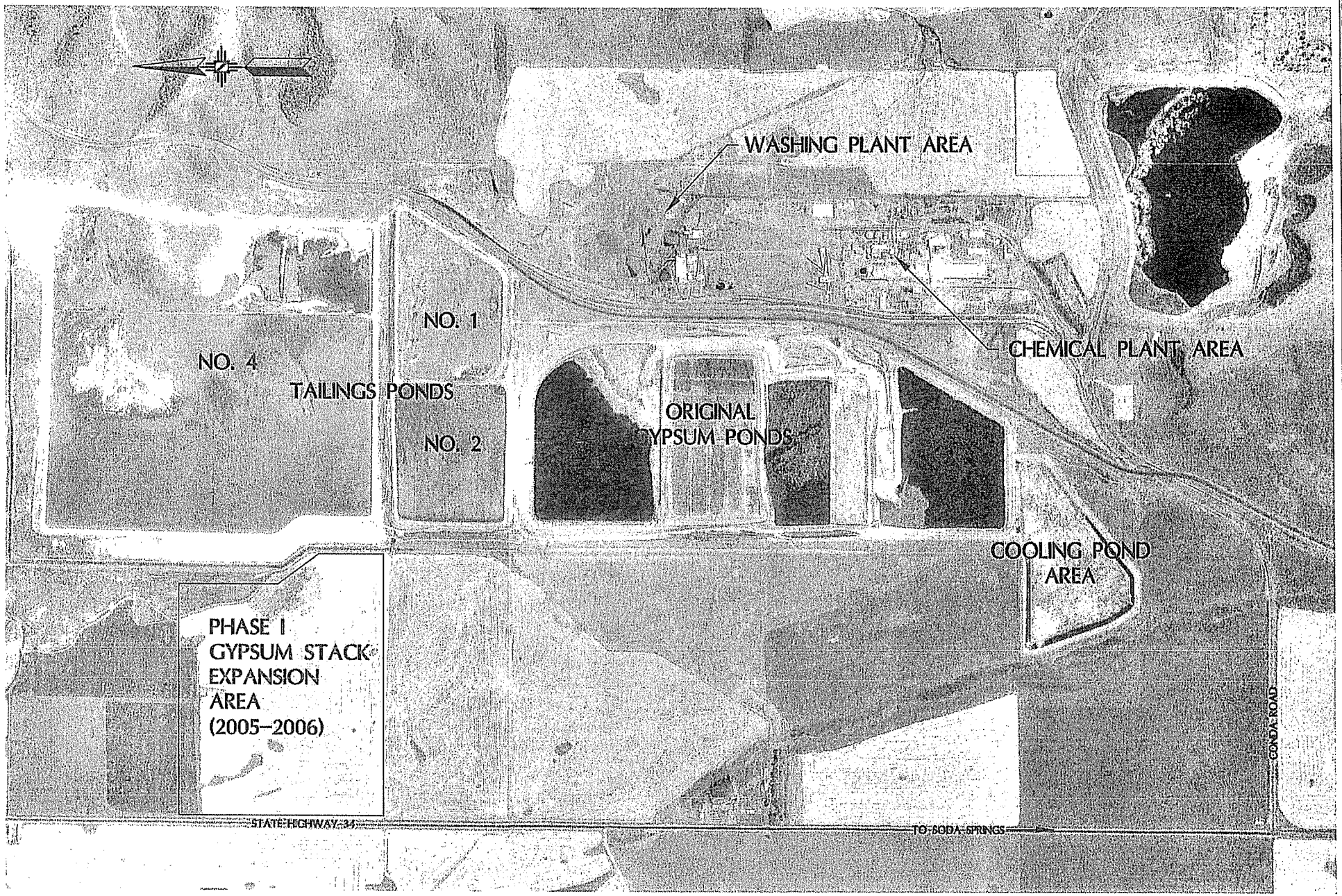
Engineers Inc. December 2005, Ground Water Assessment Report, Fall 2005.



DATE 09-03-02
JOB # NUW0601P
DWG. BY MAY

REVISIONS
06/04
11/04 PAS
10/05 PAS
8/06 ONT
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PROJECT
JUNE 2006
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

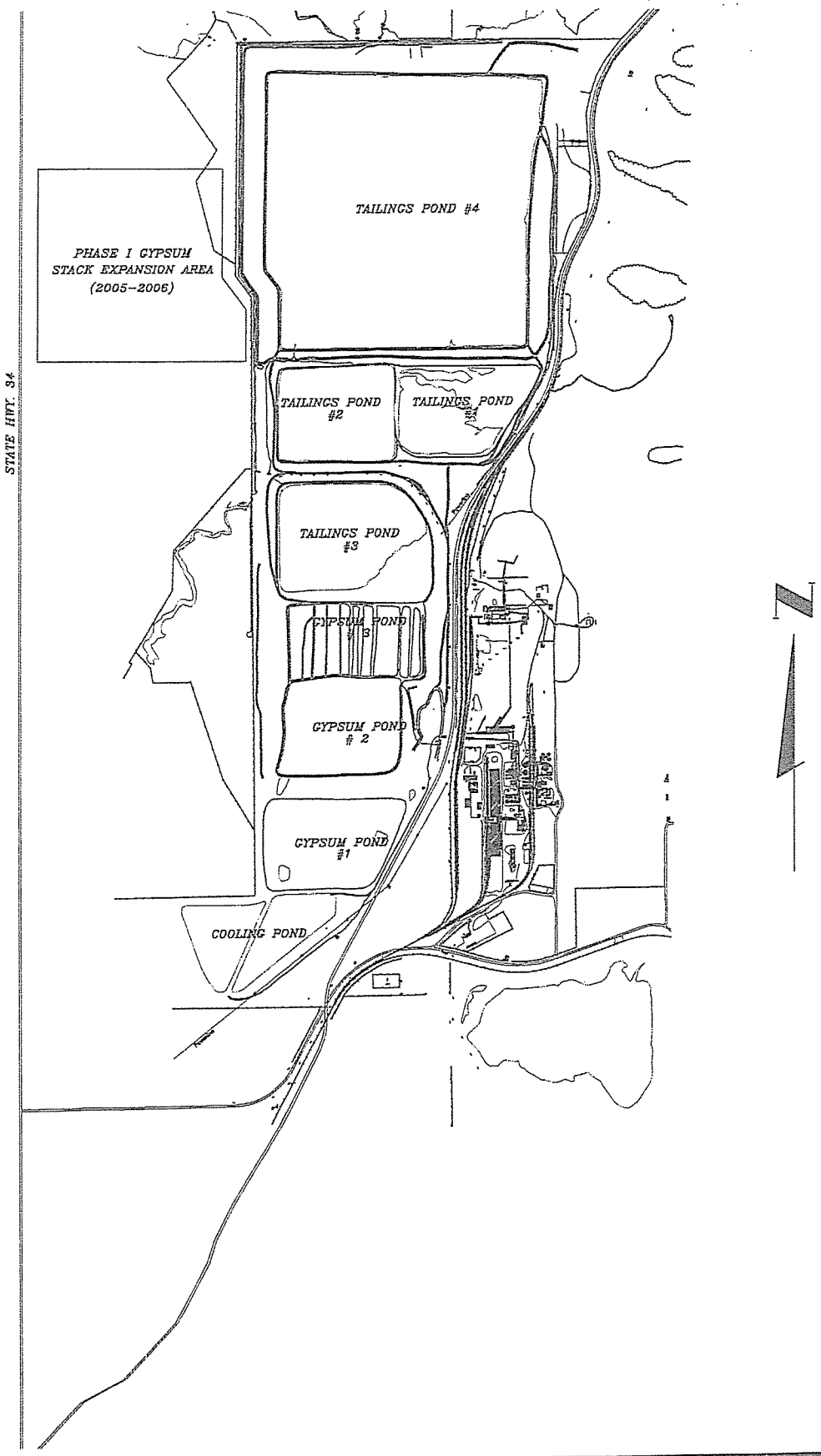
ENGINEERS INC

TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

NUW 4971



ENGINEERS INC

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(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/06 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P

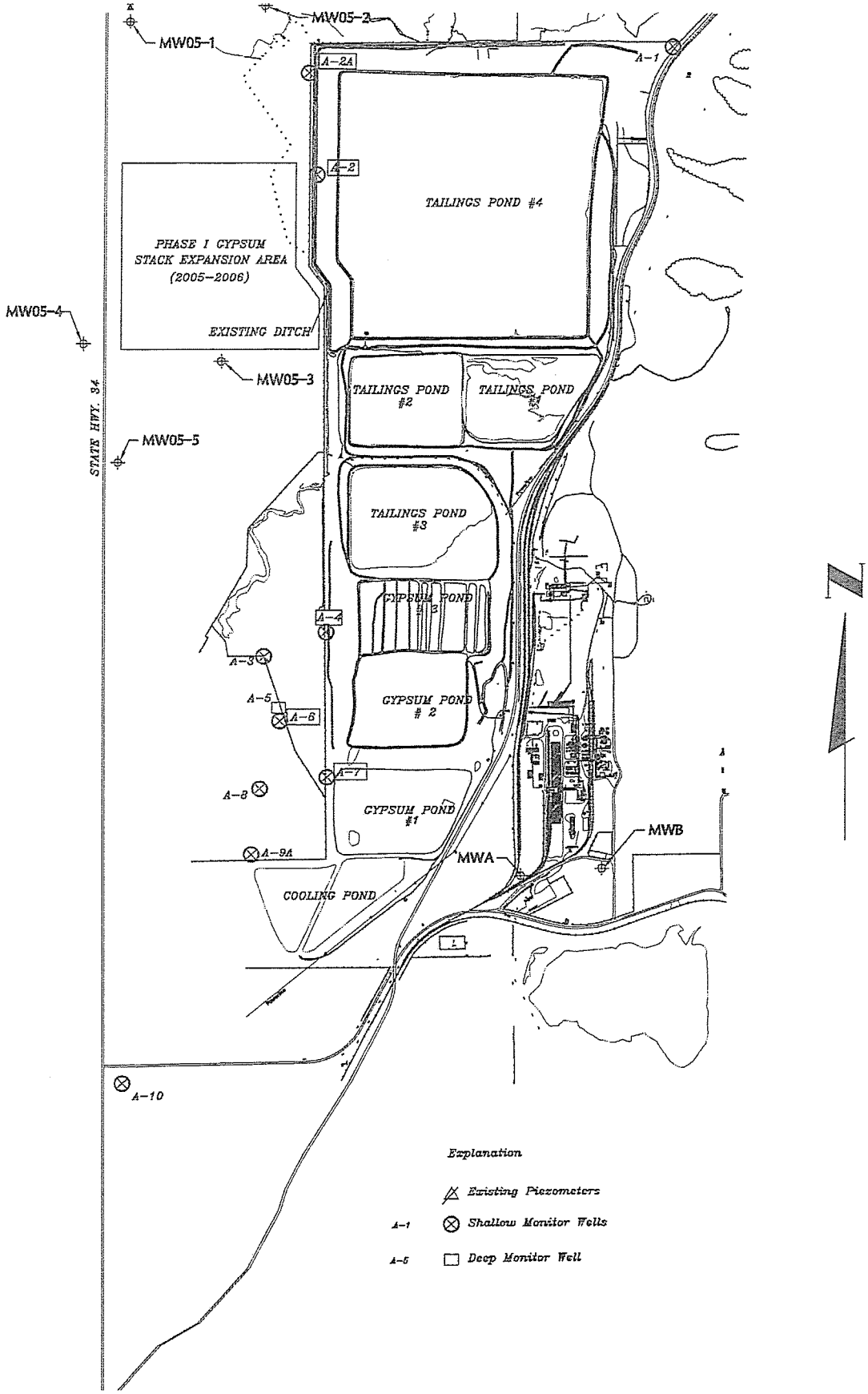

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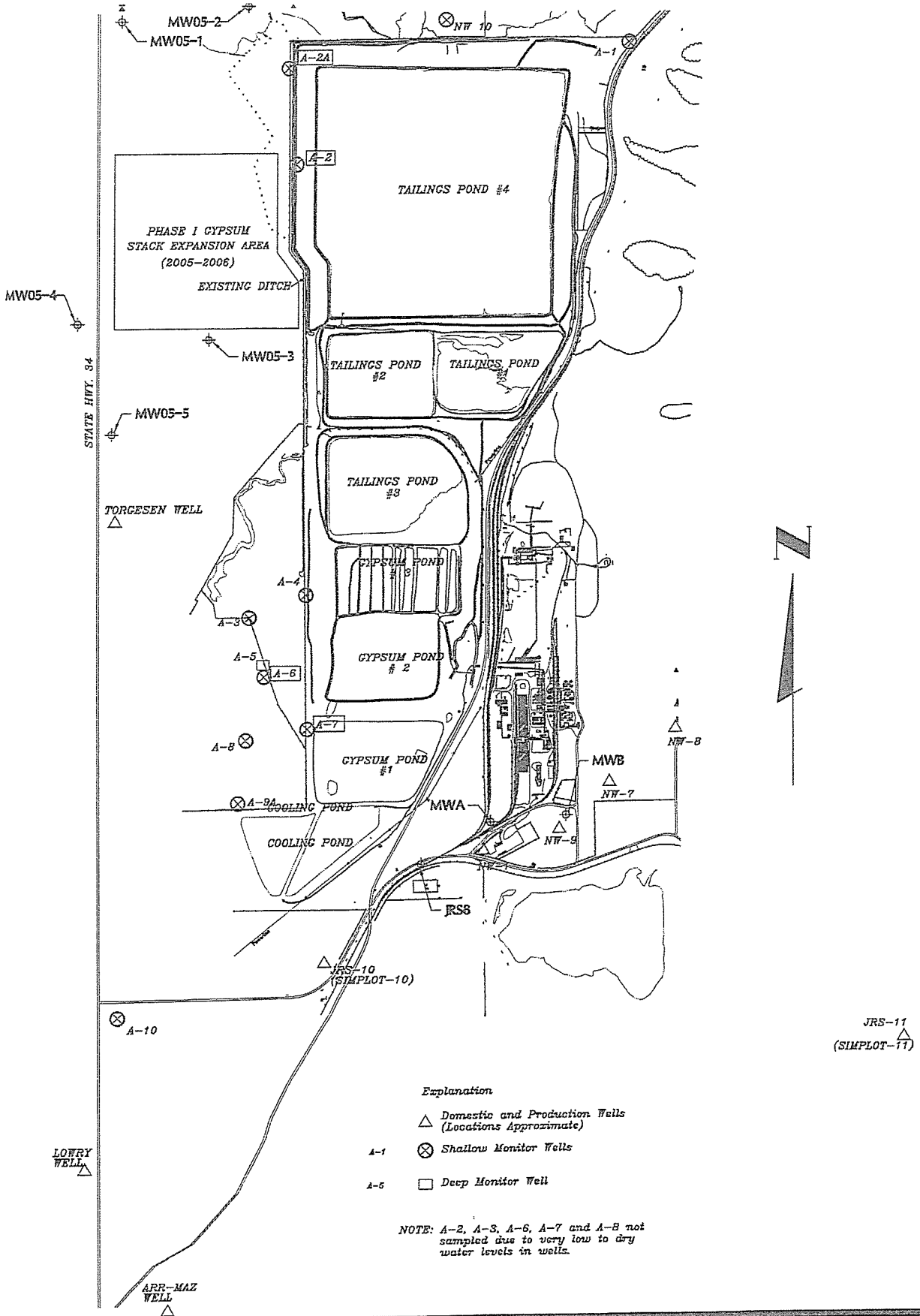
FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
JUNE 2006
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 8/06 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P



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(505)538-5410 (FAX)

FIGURE 4
GROUND WATER SAMPLING LOCATIONS
JUNE 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/06 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P

NUW 4974

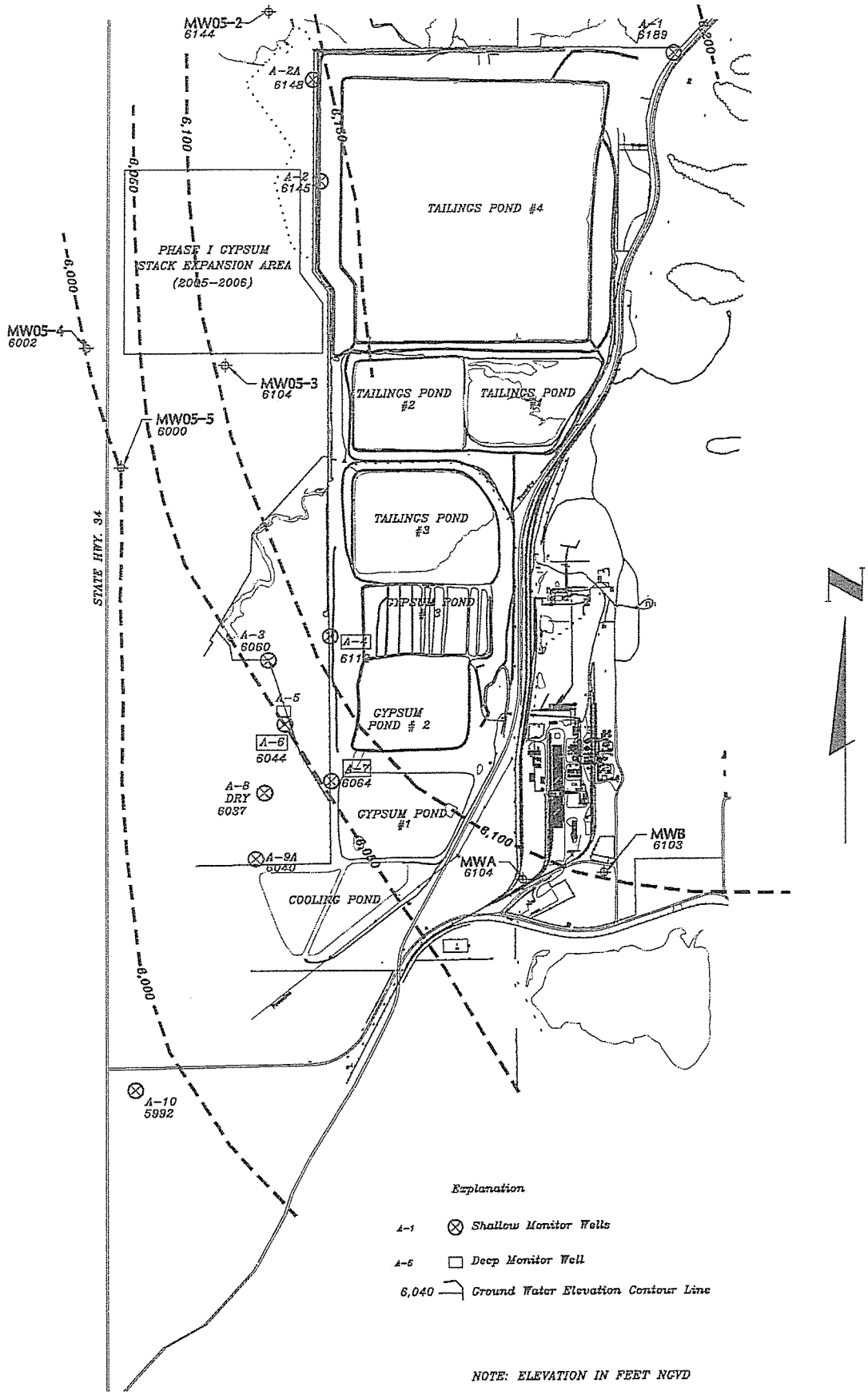

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FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
JUNE 2006
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 8/06 ONT	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P

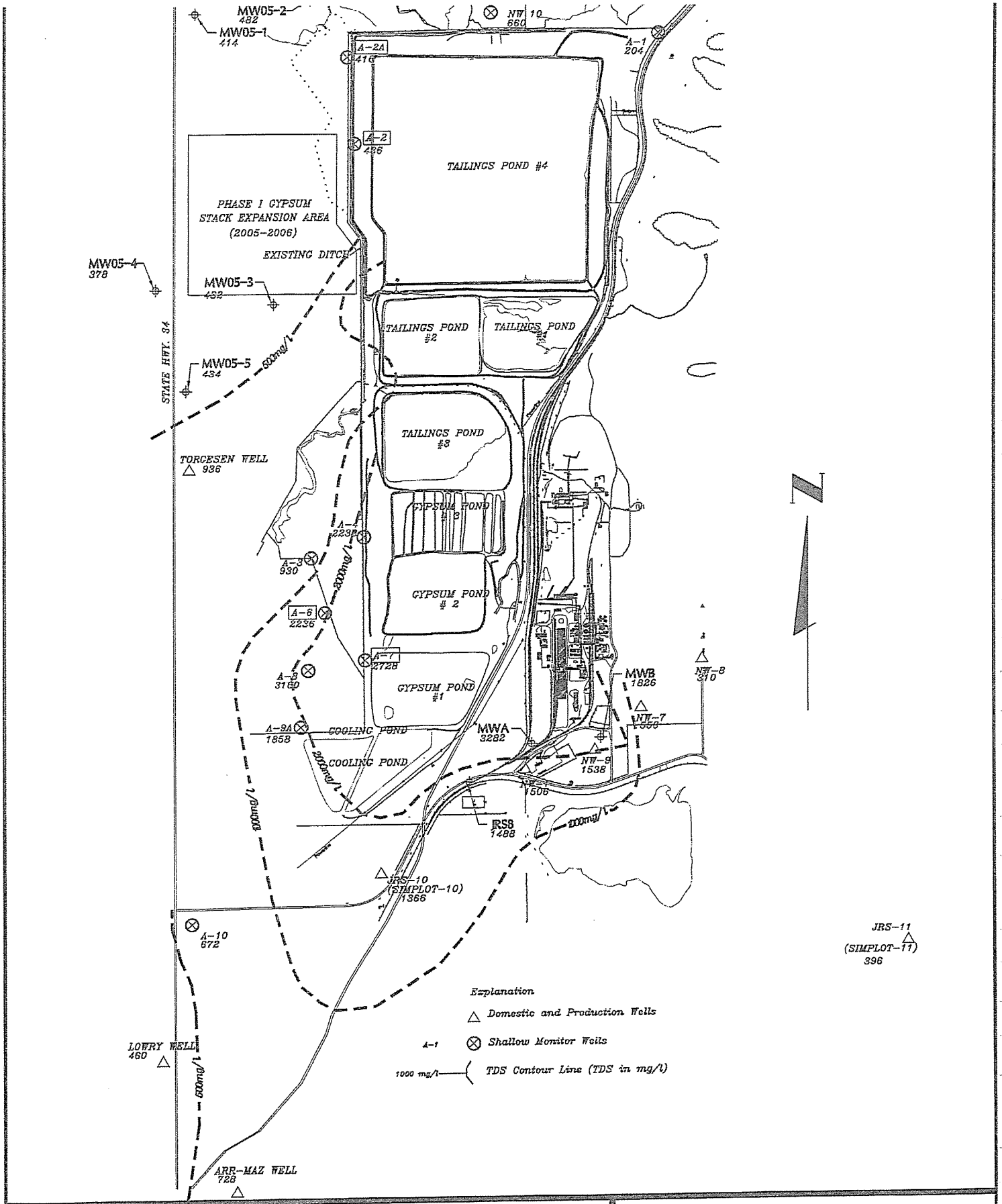

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FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-JUNE 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/06 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P

NUW 4976

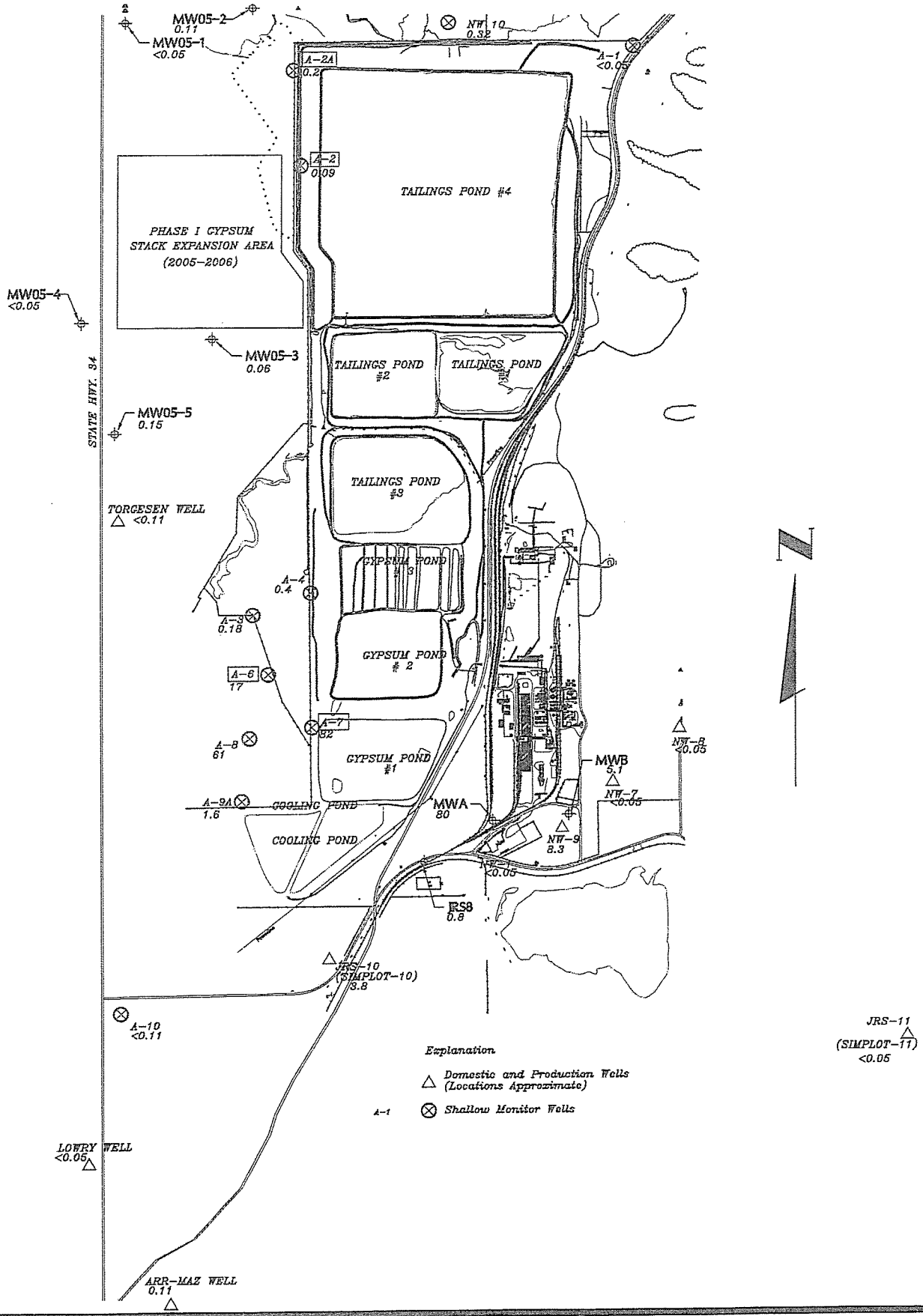

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FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS-JUNE 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/06 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0601P

NUW 4977

Table 7
TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2006

Well ID	Total Dissolved Solids Concentrations (mg/L)													
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06
A-1	270	222	284	292	208	270	294	278	252	256	266	298	278	264.0
A-2	370	378	416	430	436	412	388	N.S.	N.S.	N.S.	390	N.S.	432	436.0
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	930.0
A-4	455	546	758	644	740	1,074	998	1,002	1,186	1,564	1,810	1,880	1,844	2,238.0
A-5	740	552	554	622	646	708	760	824	790	730	770	780	800	908.0
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	2,234.0
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.	N.S.	N.S.	N.S.	N.S.	2,728.0
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	3,160.0
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210	1,990	1,764	1,774	1,602	1,858.0
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674	682	596	650	660	672.0
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1,078	1,138	1,080	N.S.
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1,486	1,664	1,102	1,506	N.S.
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622	2,130	1,816	2,432	914	N.S.
NW-7	470	542	542	498	452	560	562	568	536	554	554	472	514	556.0
NW-8	245	232	328	304	290	322	304	344	308	328	320	304	312	310.0
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.	N.S.	2,882	1,970	1,526	1,538.0
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706	686	742	652	670	660.0
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548	1,458	1,534	1,274	1,256	1,366.0
JRS-11	N.S.	1,350	328	398	342	398	292	370	356	374	402	374	386	396.0
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804	572	682	656	732	728.0
Lowry	N.S.	N.S.	340	422	356	460	290	440	358	418	404	430	404	460.0
Torgesen	645	590	544	588	552	1,494	672	722	762	812	744	786	816	936.0
JRS 8						Wells First Sampled in June 2005						1,256	1,166	1,488.0
MW A												2,860	3,360	3,282.0
MW B												3,198	3,872	1,826.0

NOTE: N.S.= Not sampled

Table 8
TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2006

Well ID	Total Nitrogen Concentrations (mg/L)													
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2	1.20	<0.5	<0.5	<0.5	20.1
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.	N.S.	3.9	N.S.	<0.5	0.7
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.	N.S.	N.S	N.S.	N.S.	2.3
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4	6.00	5.6	8.5	8.5	25.0
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4	1.40	<0.5	<0.5	<0.5	1.1
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	57.0
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.	N.S.	N.S.	N.S.	N.S.	104.0
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	86.0
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8	7.10	7.3	6.8	6.1	7.8
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7	8.20	8.0	7.1	7.4	7.4
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	2.7	2.3	1.0	N.S.
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	15.20	20.1	3.5	19.3	N.S.
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2	50.70	9.7	41.4	8.9	N.S.
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1	4.20	3.6	6.4	4.2	3.8
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1	3.60	2.8	3.1	2.8	3.2
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.	N.S.	23.3	22.9	14.8	27.7
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8	<1.0	0.7	0.8	<0.5	<0.5
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0	23.80	21.4	19.2	16.7	27.8
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9	2.0	1.4	1.5	1.5	1.0
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1	1.30	<0.5	1.0	1.0	<0.5
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9	13.10	12.0	17.4	14.1	17.1
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30	35.0	33.2	38.3	39.3	52.0
JRS 8												16.0	8.1	28.9
MW A												122.0	84.0	237.0
MW B												17.8	24.2	9.9

NOTE: N.S. = Not sampled

Table 9
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2006

	Sulfate Concentrations (mg/L)													
Well ID	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06
A-1	17	11	11	12	12	12	8	12	13	11	6	6	7	8.0
A-2	29	32	37	36	54	34	42	N.S.	N.S.	N.S.	43	N.S.	30	39.0
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	118.0
A-4	37	40	70	47	60	212	156	135	279	426	502	490	424	600.0
A-5	104	104	119	129	133	167	172	189	193	188	194	198	205	220.0
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	516.0
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.	N.S.	N.S.	N.S.	N.S.	975.0
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1132.0
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684	623	557	470	424	582.0
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117	110	107	101	84	98.0
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	265	269	201	N.S
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	731	610	429	436	N.S
NW-5	844	535	666	916	125	68	947	781	550	804	547	920	184	N.S
NW-7	166	164	157	81	85	148	146	138	139	142	137	109	111	148.0
NW-8	26	43	27	27	26	28	27	36	27	38	25	27	18	29.0
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.	N.S.	937	824	518	647.0
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167	194	233	199	151	154.0
JRS-10	N.S.	563	554	395	576	694	553	594	592	560	549	384	345	424.0
JRS-11	N.S.	56	55	54	52	53	49	51	53	55	49	59	44	60.0
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36	34	30	31	26	33.0
Lowry	N.S.	N.S.	56	47	51	60	48	51	48	53	48	67	17	61.0
Torgesen	58	55	55	52	55	587	60	61	60	60	62	68	54	72.0
JRS 8												464	265	556.0
MW A												1,545	1,546	1121.0
MW B												1,185	1,027	784.0

NOTE: N.S. = Not Sampled

Table 10
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2006

Well ID	Sodium Concentrations (mg/L)													
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24	5.87	6.57	6.06	6.7	6.1
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.	N.S.	4.99	N.S.	5.1	4.6
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	26.9
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.7	63.00	108	102	133.0	106.0
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60	17.80	19.0	13.7	18.3	19.5
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	279.0
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.	N.S.	N.S.	N.S.	N.S.	569.0
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	532.0
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140	131	132	96	102.0	124.0
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21	16.30	17.9	16.2	17.4	15.8
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	56.4	50.6	48.0	N.S.
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	80.30	116	70	108.0	N.S.
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200	277	223	300	63.0	N.S.
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63	12.0	11.5	12.4	11.5	12.3
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.0	9.0	8.55	8.34	8.6	9.0
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.	N.S.	95.8	66.5	62.0	85.8
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86	12.0	12.3	13.7	12.0	10.4
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103	100	92.3	72.9	86.0	73.6
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.0	7.0	34.1	8.4	7.3	7.7
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38	5.75	6.37	7.00	6.5	6.4
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72	22.70	20.4	33.4	21.0	35.8
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.0	15.40	18.20	19.30	18.7	19.8
JRS 8												63.5	53.6	78.4
MW A					Wells not sampled until June 2005							134.0	160.0	108.0
MW B												120.0	164.0	86.0

NOTE: N.S. = NOT Sampled

Table 11
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2006

Well ID	Aluminum Concentrations (mg/L)													
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94	<0.03	<0.03	0.4	<0.03	<0.03
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.	N.S.	0.14	N.S.	<0.03	<0.03
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	0.05
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99	0.31	0.22	<0.03	0.46	<0.03
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86	<0.03	<0.03	<0.03	<0.03	<0.03
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.03
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.	N.S.	N.S.	N.S.	N.S.	<0.03
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	0.07
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23	0.57	<0.03	<0.03	0.09	<0.03
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82	<0.03	<0.03	<0.03	0.17	<0.03
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	N.S
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.52	<0.03	0.13	<0.03	N.S
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01	<0.03	<0.03	<0.03	<0.03	N.S
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72	<0.03	<0.03	<0.03	<0.03	<0.03
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51	<0.03	<0.03	<0.03	<0.03	<0.03
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.	N.S.	94.1	30.7	8.5	20.20
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79	<0.03	<0.03	<0.03	<0.03	<0.03
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14	<0.03	0.76	0.04	<0.03	<0.03
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70	<0.03	<0.03	<0.03	<0.03	<0.03
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54	<0.03	<0.03	<0.03	<0.03	<0.03
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86	<0.03	<0.03	<0.03	<0.03	<0.03
JRS 8					Wells not sampled until June 2005							<0.03	<0.03	<0.03
MW A												6.90	8.90	1.43
MW B												353	308	25.20

Note: N.S. = not sampled

APPENDIX A

APPENDIX A

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A1

DAY/DATE: SUN. 6/4/06

PERSONNEL: WM / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 68'±

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: 6/2/06 LAB

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: X Onsite ___ Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 32.7

WATER COLUMN HEIGHT (feet) = (a) 68 - (b) 33 = (h) 34

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = ~~2~~ 5.5

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ~~16~~ 16

Est 125 gals in 200 Hrs

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	843 AM	6.39	530	14.1	237 Hz	Sl. Cloudy
2 10	913 AM	6.86	408	16.7	246 Hz	V. Sl. Cloudy
3 15	942	6.90	473	17.0	261 Hz	V. Sl. cloudy Color
4						
5						
Sample	10 AM		472	16.2	261 Hz	Clear - V.Sl. Cloudy ≈ 16 NTU

SAMPLE DESCRIPTION: Check water pump in jar w/ new ≤ pump flow

NOTES: Limit pump flow to ≤ 0.25 gpm to keep well from pumping dry. Set pump @ 50'. Air temp ≈ 70° F

Signature of Sampling Personnel: ___ Date: ___

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A2

DAY/DATE: SAT 6/3/06

PERSONNEL: WAH / RH

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD): ___

TOTAL WELL DEPTH (feet): (a) = 30 ft

GROUND WATER ELEVATION (feet NGVD): ___

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u):	___ inst.	___ inst.	___ inst.
Conductance (µmhos/cm):		___ inst.	___ inst.
Turbidity (NTU):		___ inst.	___ inst.
D.O. (mg/l): 100%	___		
@100% air	___ inst.	___ inst.	

WELL TYPE: X Onsite ___ Offsite

X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 12 ft

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 12 = (h) 18

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = ± 3 gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ± 10 gals

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Acc gals Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved~~ Oxygen (mg/l)	Turbidity (NTU)
1 5	3:04	6.40	796	11.4	2.25 HR	Sl. Cloudy
2 10	3:07	6.39	778	9.8		Clear
3 15	3:10	6.24	780	9.8		
4						
5						
Sample	3:13	7.05	765	10.0		

SAMPLE DESCRIPTION: PM

NOTES: Water in ditch to W. / Foot. Cover last bucket of 8/4 inf. & meas

Signature of Sampling Personnel: ___ Date: ___

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2A

DAY/DATE: 6/3/06 SAT

PERSONNEL: [illegible]/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 168'±

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 13 = (h) 155

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 25

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 75

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ [Fill Time (minutes)] = Pump gallons/minute

Pump @ 45'
Pump Rate 5 gpm

EQUIPMENT CALIBRATION

Date/Time: CAB 6/3/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: X Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 12.6

Well Volume / Sample (gals)	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (°C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	939 940	7.49	766	8.0	293 Hz	Sl. cloudy
2 10	940 41	7.24	824	7.0	↓	
3 15	941 942	7.31	826	7.5	↓	
4 20	942 943	7.20	839	7.5	↓	
5 40	945 947	7.06	840	7.6	↓	clear
60	947 951	7.22	824	7.7		clear
Sample 60	955	7.52	760	7.8		clear

SAMPLE DESCRIPTION:

NOTES: ±1 foot of water flowing in 1 RR. ditch to ~~[illegible]~~ of well

Signature of Sampling Personnel: [illegible] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A 3

DAY/DATE: 6/3/06

PERSONNEL: WAK/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 108

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: /

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 89.4

WATER COLUMN HEIGHT (feet) = (a) 108 - (b) 90 = (h) 18

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 3 gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 9 gals ±

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Pump Rate ≥1 gpm

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	6:35	6.03	1414	10.6	25	Cloudy
2 10	6:41	6.20	1410	10.1		Sl. Cloudy
3						
4						
5						
15						
Sample	6:50	6.48	1413	9.9		Sl. cloudy

SAMPLE DESCRIPTION: Sl. cloudy

NOTES: set pump @ 100' ± Keep pump rate at 2 gpm to keep well from Dewatering

Signature of Sampling Personnel: [signature] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-4

DAY/DATE: SUN 6/4/06

PERSONNEL: [illegible] / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 115.4

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: /

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: X Onsite ___ Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 38.2

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 38 = (h) 77

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 12

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ±36

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Well Volume / Sample	START Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	11:03 AM	6.08	3060	10.5	184 Hz	Sl. Cloudy
2 10	11:08	6.10	3130	9.0	"	Sl. Cloudy
3 15	11:15	6.12	3160	9.7	194 Hz	Sl. Cloudy
4 20	11:20	6.16	3120	9.0		Sl. Cloudy
5 30	11:25	6.12	3200	9.0	194	Sl. Cloudy
±36 Sample	11:40	6.20	3150	9.1		Sl. Cloudy

SAMPLE DESCRIPTION:

NOTES: Well level up ± 40-50 ft from FALL 2005.
Set pump @ 80' ± Set pump rate @ ≤ 1 gpm

Signature of Sampling Personnel: ___ Date: ___

B-894

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-5

DAY/DATE: 6/3/06 SAT

PERSONNEL: WHE/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 2"

GROUND WATER ELEVATION (feet NGVD): 6M

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 83 = (h) 130

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 21 gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 63 ± gals

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ [Fill Time (minutes)] = gallons/minute

set pump @ ± 1 gpm

EQUIPMENT CALIBRATION

Date/Time: 6/2/06 LAB

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 83.4

Well Volume / Sample	START Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	5 30	6.88	807	16.2	299 Hz	clear ± 2.5 gpm
2 10	5 33	7.05	1100	11.5	259 Hz	clear - sl. cloud
3 15	5 38	7.08	1232	10.7	259	clear
4 20	5 43	7.10	1311	10.4	"	clear
5 40	6 10	7.04	1208	10.3		clear
~~[illegible]~~						
Sample 60	6 30	7.13	1295	10.6	"	clear

SAMPLE DESCRIPTION: PM

NOTES: Pump > 1 gpm - appears to dry well temp - flow - burgers.

Signature of Sampling Personnel: WHE Date: 6/3/06

A5 87

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A6

DAY/DATE: 6/13/06

PERSONNEL: Utter / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 119.0

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ @100% air ___ inst. ___ inst.

WELL TYPE: ___ Onsite ___ Offsite ___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 106.0

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 106 = (h) 13

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 2

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 6

PUMPING RATE: Pump rate ≤ 1gpm

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

gals Well Volume/ Sample	Start Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	4:50	5.82	3580	12.2	284 Hz	Cloudy
2 10	5:06	5.76	3500	10.0		M@D. Cloudy
3 15	5:11	5.75	3490	9.8		Sl. Cloudy
4						
5						
Sample 20	5:16 PM	6.20	3300	9.9		Clear - Sl. Cloudy

SAMPLE DESCRIPTION: Sl. Cloudy - Clear

NOTES:

Signature of Sampling Personnel: [signature] Date: 6/13/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-7

DAY/DATE: SUN 6/4/06

PERSONNEL: UH/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 120 ±

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 121 - (b) 87 = (h) 34

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 5.5

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 16 ±

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

EQUIPMENT CALIBRATION

Date/Time: 6/2/06 LAB

CALIBRATION STANDARDS & METER READINGS

pH (s.u): _____ inst. _____ inst. _____ inst.

Conductance (µmhos/cm): _____ inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ inst. _____ inst.
@100% air

WELL TYPE: X Onsite ___ Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 86.7

Pump Rate ± 1gpm

Well Volume / Sample	START Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	10 20	6.36	3520	16.0	283 Hz	Mod. cloudy
2 10	10 31	6.33	3950	15.1		M - Sl. cloudy
3 16	10 37	6.27	3400	14.8	283 Hz	Sl. cloudy
4 20	10 42	6.26	4400	14.7		Sl. cloudy
5						
Sample	10 46	6.37	4320	14.8		

SAMPLE DESCRIPTION:

NOTES: Well previously dry in 200 s.
Set pump @ ± 105 ft

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A 8

DAY/DATE: 6/3/6 SAT

PERSONNEL: [illegible] / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 128 ±

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 112 ±

WATER COLUMN HEIGHT (feet) = (a) 128 - (b) 112 = (h) 16 ±

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 2.6

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 8 gals

Set pump @ ≥ 1 gpm
Set pump @ 120 ± ±

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Well Volume / Sample (all gals)	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	4 24	6.33	4470	14.8	285 HZ	[illegible] Cloudy
2 10	4 29	6.27	4630	13.8	"	M. Cloudy
3 15	4 35	6.25	4610	13.9		Sl. Cloudy
4						
5						
Sample 16	4 40	6.30	4570	13.9		V. Sl. Cloudy

SAMPLE DESCRIPTION:

NOTES: Water in well after many periods of burning dry.

Signature of Sampling Personnel: ___ Date: ___

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A9A

DAY/DATE: 6/3/06 SAT

PERSONNEL: WRE/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 151.0

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ @100% air ___ inst. ___ inst.

WELL TYPE: ___ Onsite X Offsite ✓ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 106.6

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 107 = (h) 44

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 7

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 22-25

PUMPING RATE: Pump rate ±1gpm

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Well Volume/Sample (gal)	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	340	6.43	2400	12.5	2.72 H2 Mod	Sl. Cloudy
2 10	346	6.40	2650	11.3	↓	Sl. Cloudy
3 15	352	6.38	2540	11.2	↓	Sl. Cloudy
4 20	358	6.40	2640	11.0	V. Sl	Cloudy - Clear
+ 25	404	6.42	2650	10.7		Clear
Sample	408	6.54	2640	11.0		

SAMPLE DESCRIPTION: Clear

NOTES: Set pump @ 130' ±; Keep pump Rate @ ± 1 gpm to keep from drying up well.

Signature of Sampling Personnel: [illegible] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A10

DAY/DATE: SAT. 6/3/06

PERSONNEL: MHZ / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD): _____

TOTAL WELL DEPTH (feet): (a) = 199

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: _____ / _____

CALIBRATION STANDARDS & METER READINGS

pH (s.u): _____ inst. _____ inst. _____ inst.

Conductance (µmhos/cm): _____ inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ inst. _____ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 132.3

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 132 = (h) 67

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 11 gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 33

PUMPING RATE: ± 2.5 gpm @ 355 #2

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	120	6.93	1034	11.5	313 #2	Muddy
2 10	123	7.13	1037	9.9	355	Sl. Cloudy
3 15	125	7.15	1041	9.8		Sl. Cloudy
4 25	129	7.15	1042	9.7		
5 35	132	7.12	1014	9.6	V.Sl.	Clear
Sample 50	140	7.20	1032	9.7		

SAMPLE DESCRIPTION: _____

NOTES: _____

Signature of Sampling Personnel: [signature] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW - A (Near Board St. Field.)

DAY/DATE: 6/2/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = ±120'

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 52 = (h) 68

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 11± gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ±33

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: X Onsite ___ Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 52.0 TOC

Pump @ ±255 ~~[illegible]~~
±25 gpm

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	3 27	5.91	3730	12.5		Cloudy
2 10	3 29	5.73	3870	10.5	Cloudy	Sl. Cloudy
3 15	3 31	5.66	3880	10.4		Sl. Cloudy
4 20	3 33	5.74	3860	10.4		"
5 25	3 35	5.67	3920	10.3		"
35	3 39	5.78	3910	10.3		V. Sl. Cloudy
Sample	3 40	5.76	3940	10.4		V. Sl. Cloudy

SAMPLE DESCRIPTION: V. Sl. Cloudy

NOTES:

Signature of Sampling Personnel: [illegible] Date: 6/2/06 3:40

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWB (Near MW9)

DAY/DATE: 6/2/06 FRIDAY

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = ± 120'

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 59 = (h) 61

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 10 gals ±

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 30 gals ±

Set Motor Pump @ 255 ft ±

EQUIPMENT CALIBRATION

Date/Time: LAD 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ____ inst. ____ inst. ____ inst.

Conductance (µmhos/cm): ____ inst. ____ inst.

Turbidity (NTU): ____ inst. ____ inst.

D.O. (mg/l): 100% ____ @100% air ____ inst. ____ inst.

WELL TYPE: X Onsite ___ Offsite

X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 59 ±

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ____ [Fill Time (minutes)] = ____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5 gal	242 PM	5.96	1945	11.8		Sl. Cloudy
2 10	242	5.95	1936	11.8		Sl. Cloudy
3 15	245	5.70	1892	11.5		
4 20	247	5.71	1969	11.5		Sl. Cloudy
5 25	249	5.66	1995	11.5		Sl. Cloudy
30	251	5.66	1993	11.5		
Sample 35 gal	255	5.66	1980	11.5		Sl. Cloudy

SAMPLE DESCRIPTION: Sl. Cloudy

NOTES: Set Pump Motor @ ± 80'

Signature of Sampling Personnel: [illegible] Date: 6/2/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: ARMA-2

DAY/DATE: 6/1/06

PERSONNEL: WAC

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): _____

TOTAL WELL DEPTH (feet): (a) = _____

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: 6/1/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): _____ inst. _____ inst. _____ inst.

Conductance (µmhos/cm): _____ inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ inst. _____ inst.
@100% air

WELL TYPE: ___ Onsite ___ Offsite ___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5+	118-118		1219	21.6		~~[illegible]~~ cloudy w/ flo Bubbles
2 10+	118 120		1228	20.3		
3 15	120 121		1238	20.0		
4 20+	121-123		1240	19.8		
5 25+	123-125	1244		19.8		
35+						
Sample	125		1243	19.8		clear

SAMPLE DESCRIPTION: _____

NOTES: SAMPLE FROM LINE FROM INSIDE Storage TANK

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 8 –

DAY/DATE: ~~[illegible]~~ FRI 6/2/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = 10 – 12" ±

TOP OF CASING ELEVATION (feet NGVD): ?

TOTAL WELL DEPTH (feet): (a) = ?

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) ? - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u.): _____ inst. _____ inst. _____ inst.

Conductance (µmhos/cm): _____ inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ inst. _____ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
___ Monitor ___ Domestic X Production (No Pump)

DEPTH TO WATER (feet): (b) = 52.0

330 Hz ; ± 5gpm

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	4:15 – 4:[illegible]	6.25	1811	9.7		clear
2 10	4:[illegible] – 4:[illegible]	6.22	1804	9.2		clear
3 20	4:18 – 4:22	6.24	1798	9.1		"
4 50±	4:22 – 4:26	6.23	1810	9.1		clear
5						
±70 gals Sample	4:29	6.17	1818	9.0		clear

SAMPLE DESCRIPTION:

NOTES: Set Pump @ 75'

Signature of Sampling Personnel: [illegible] Date: 6/2/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 10

DAY/DATE: 6/1/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): _____

TOTAL WELL DEPTH (feet): (a) = _____

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: 6/1/04

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ____ inst. ~~[illegible]~~ inst. ____ inst.

Conductance (µmhos/cm): 1414 inst. ____ inst.

Turbidity (NTU): ____ inst. ____ inst.

D.O. (mg/l): 100% ____ inst. ____ inst.
@100% air

WELL TYPE: ___ Onsite ___ Offsite
___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	437 438		1324	15.2		~~Sl. Cloudy~~
2 ~~10~~	~~435~~ ~~[illegible]~~		~~[illegible]~~	Recalibrate meter		Sl. Cloudy
3 15+	445 445		1574	10.0		
4 20+	445		1587	9.5		
5						
Sample	447		1576	9.6		Sl. Cloudy

SAMPLE DESCRIPTION: _____

NOTES: Pump Running

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: DRS 11

DAY/DATE: 6/1/06

PERSONNEL: KAR

WELL DIAMETER (inches): (d) =

TOP OF CASING ELEVATION (feet NGVD): N/A

TOTAL WELL DEPTH (feet): (a) =

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: 6/1/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ____ inst. ____ inst. ____ inst.

Conductance (µmhos/cm): ____ inst. ____ inst.

Turbidity (NTU): ____ inst. ____ inst.

D.O. (mg/l): 100% ____ inst. ____ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
___ Monitor ___ Domestic X Production

DEPTH TO WATER (feet): (b) =

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons) = wv x 3 =

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1/5	410 415		501	14.2		
2 10	417 419		541	10.2		
3 15	418 422		525	10.8		
4						
5						
Sample 420			452	9.9		

SAMPLE DESCRIPTION:

NOTES: On-Demand Pump

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: LOWPZ4

DAY/DATE: 6/1/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) =

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: 6/1/06, 1230

CALIBRATION STANDARDS & METER READINGS

pH (s.u):	___ inst.	1414 inst.	___ inst.
Conductance (umhos/cm):		___ inst.	___ inst.
Turbidity (NTU):	___ inst.	___ inst.	
D.O. (mg/l): 100%	___ inst.	___ inst.	
@100% air			

WELL TYPE: ___ Onsite ___ Offsite ___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) =

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (umhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
x 5	~~1225~~, 1227		730	11.0		Clear
x 10	1238-1240		756	9.1		Clear
3 15	1240-1242		757	8.4		Clear
4 20	1242-1244		765	8.5		
5						
Sample	1243		769	8.7		Clear

SAMPLE DESCRIPTION:

NOTES: New pressure tank

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-7

DAY/DATE: 6/1/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) =

TOP OF CASING ELEVATION (feet NGVD): N/A

TOTAL WELL DEPTH (feet): (a) =

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Fill Bucket @ ±19PM

EQUIPMENT CALIBRATION

Date/Time: 6/1/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): 1413 inst. 1407 inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite ___ Offsite
___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) =

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
~~1~~ 5	1137 - 1140		826	9.8		clear
~~2~~ 10	1140 - 1146		831	9.4		clear
3 15	1146 1151		830	9.3		clear
4						
5						
Sample	1153		849	9.0		clear

SAMPLE DESCRIPTION:

NOTES: Gauge 49.6 psi
Water level 28.2 ft
FIBER SYRINGE NOT WORKING

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-8

DAY/DATE: 6/1/06

PERSONNEL: WAK

WELL DIAMETER (inches): (d) = Prod. Well

TOP OF CASING ELEVATION (feet NGVD): NA

TOTAL WELL DEPTH (feet): (a) = NA

GROUND WATER ELEVATION (feet NGVD): NA

EQUIPMENT CALIBRATION

Date/Time: 6/1/06 1045

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): 1410 inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% @100% air ___ inst. ___ inst.

WELL TYPE: ___ Onsite X Offsite ___ Monitor ___ Domestic X Production

DEPTH TO WATER (feet): (b) = ___

WATER COLUMN HEIGHT (feet) = (a) ___ - (b) ___ = (h) ___

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = ___

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ___

PUMPING RATE: Est Flow ≈ 1/2 gpm - 3/4 gpm Full

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

gals Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
~~[illegible]~~ 5	1045 - 1157	—	485	11.8		clear
2 10	1157 - 1100		653	11.5		clear
3 15	1100 - 1112		643	11.6		clear
Sample	1112 - 1122		653	12.3		clear
5						
Sample						

SAMPLE DESCRIPTION: ___

NOTES: Water level @ 7' Gauge = 28.9 psi
Production well on Sprinkler Filters not working

Signature of Sampling Personnel: ___ Date: ___

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-9

DAY/DATE: 6/1/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): N/A

TOTAL WELL DEPTH (feet): (a) = N/A

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: 6/1/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): _____ inst. _____ inst. _____ inst.

Conductance (umhos/cm): 1414 inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ @100% air _____ inst. _____ inst.

WELL TYPE: X Onsite ___ Monitor ___ Domestic X Production ___ Offsite

DEPTH TO WATER (feet): (b) = 135'+

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

DUP: sample to ACZ

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Gals Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (umhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	243-244		1522	12.5		Clear
2 10	244-246		1544	10.2		Clear — Sl. cloudy
3 15	247-250		1476	10.0		
4			~~[illegible]~~			
5						
Sample	253		1474	10.1		Clear — Sl. cloudy

SAMPLE DESCRIPTION: _____

NOTES: Water level = 135'
Pressure 44.1 psi

Signature of Sampling Personnel: [illegible] Date: 6/1/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW10

DAY/DATE: 6/2/06

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): N/A

TOTAL WELL DEPTH (feet): (a) = N/A

GROUND WATER ELEVATION (feet NGVD): N/A

EQUIPMENT CALIBRATION

Date/Time: 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ____ inst. ____ inst. ____ inst.

Conductance (umhos/cm): 1000 inst. ____ inst.

Turbidity (NTU): ____ inst. ____ inst.

D.O. (mg/l): 100% ____ inst. ____ inst.
@100% air

WELL TYPE: X Onsite ____ Offsite
____ Monitor ____ Domestic X Production

DEPTH TO WATER (feet): (b) = ±160' ± As per Alan Stumon

WATER COLUMN HEIGHT (feet) = (a) ____ - (b) ____ = (h) ____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = ____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ____ [Fill Time (minutes)] = ____ gallons/minute

Well Volume / Sample (gal)	Time (hh:mm) AM	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	9:00 AM – 9:02		1158	7.6		clear
2 10	9:02 – 9:04		1161	7.3		clear
3 15	9:04 – 9:06		1154	7.2		Sl. Cloudy – Rn
4 20	9:06 – 9:08		1133	7.3		V. Sl. Cloudy
5						
Sample	9:09		1115	7.5		clear

SAMPLE DESCRIPTION: Clear

NOTES: Let sample run from initially for 5-10 minutes to [illegible] due to cloudy water. Pump placed ±100 feet below well head – [illegible] ± from top of casing

Signature of Sampling Personnel: [illegible] Date: 6/2/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: TORgesen

DAY/DATE: 6/1/06

PERSONNEL: WAA

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): _____

TOTAL WELL DEPTH (feet): (a) = _____

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: 6/1/06 /

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ____ inst. ____ inst. ____ inst.

Conductance (µmhos/cm): 1414 inst. ____ inst.

Turbidity (NTU): ____ inst. ____ inst.

D.O. (mg/l): 100% ____ inst. ____ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
___ Monitor X Domestic ___ Production

DEPTH TO WATER (feet): (b) = _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5	<19		1250	2		
2 10	522		899	8.9		
3 15	524		1288	7.9		
4						
5						
Sample 5			1276	8.1		

SAMPLE DESCRIPTION: _____

NOTES: _____

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: EQUIP BLANK

DAY/DATE: 6/4/06 SUN

PERSONNEL: [illegible]

WELL DIAMETER (inches): (d) = N/A

TOP OF CASING ELEVATION (feet NGVD): _____

TOTAL WELL DEPTH (feet): (a) = _____

GROUND WATER ELEVATION (feet NGVD): _____

EQUIPMENT CALIBRATION

Date/Time: 6/2/06 LAB

CALIBRATION STANDARDS & METER READINGS

pH (s.u): _____ inst. _____ inst. _____ inst.

Conductance (umhos/cm): _____ inst. _____ inst.

Turbidity (NTU): _____ inst. _____ inst.

D.O. (mg/l): 100% _____ inst. _____ inst.
@100% air

WELL TYPE: ___ Onsite ___ Offsite ___ Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons): (wv) = $0.041\ (d)^2\ (h)$ = _____

MINIMUM PURGE VOLUME (gallons) = wv x 3 = _____

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (umhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
DISTILLED	[illegible]	[illegible]	4.50	22.1		
2						
DEIONIZED	1800	[illegible]	4.50	21.2		
4	(NOON)					
5						
Sample						

SAMPLE DESCRIPTION: DEIONIZED WATER FROM THE LAB.

NOTES: Flush pump w/ Dist water w/ ±1 gal

Signature of Sampling Personnel: _____ Date: _____

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-1

DAY/DATE: 6/3/06 SAT

PERSONNEL: [illegible] / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 265'±

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 102.4

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 102 = (h) 163

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 26+

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 80±

Set Pump @ 125'
Flush 5 gals to clean hose

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Well Volume / Sample (gal)	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
1 5 gals	10 38	7.44	732	8.8	323 HZ	51. Cloudy ±59/90
2 10	10 40	7.48	752	8.8	354	
3 15	10 42	7.49	748	8.7	362	clear
4 20	10 44	7.51	752	8.7	374	clear 59 pm
± 5 40	10 49	7.48	749	8.7	374	clear
± 80	10 57	7.51	725	8.6	374	clear
Sample 90	11 00	7.54	752	8.7		

SAMPLE DESCRIPTION: Clear

NOTES: TOOK DUPLICATE SAMPLE HERE

Signature of Sampling Personnel: [illegible] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-2

DAY/DATE: 6/3/06

PERSONNEL: WAE / KP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 97' ±

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 16 = (h) 81

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 13+

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 39-40 gals

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ _____ [Fill Time (minutes)] = _____ gallons/minute

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 15±

Set Pump @ 40'

Purged 1st 5 gals. Sl. Rusty

Well Volume / Sample (gals)	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	
1 5	905	7.19	786	8.9	250 Hz	Clear	3.5 gpm
2 10	907	7.32	826	7.7	293 Hz	clear	5 gpm
3 15	909	7.28	829	7.7			
4 20	910	7.32	826	7.7			
5 40±	915	7.32	813	7.7		clear	5 gpm
Sample	917	7.37	824	7.7		clear	

SAMPLE DESCRIPTION: Clear

NOTES: Purged pump w/ distilled water (1 gal) cond ≈ 11

Signature of Sampling Personnel: [signature] Date: 6/3/06

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-3

DAY/DATE: 6/3/06 - SAT

PERSONNEL:

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 238'

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

LAB Date/Time: 6/3/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): ___ inst. ___ inst. ___ inst.

Conductance (µmhos/cm): ___ inst. ___ inst.

Turbidity (NTU): ___ inst. ___ inst.

D.O. (mg/l): 100% ___ inst. ___ inst.
@100% air

WELL TYPE: X Onsite ___ Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 49.8

WATER COLUMN HEIGHT (feet) = (a) 238 - (b) 50 = (h) 188

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 30 ±

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 90 gals ±

Set Pump @ 80'
± 5 gpm
36 VHz

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

gal Well Volume / Sample	Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	
1 5	2:17			7.8	36 VHz		Sl. Cloudy
2 10	2:18	6.26	951	7.8	↓	V. Muddy	
3 15	2:18	6.70	969	7.5	↓	V. Muddy	
4 20	2:20	6.90	941	7.3		V. Muddy	
5 ~~30~~ 25	2:24	6.74	961	7.3		S. Muddy	
80	2:30	6.84	955	7.3		V. Sl. Muddy	
± 100 gals Sample	2:34	7.00	944	7.4		V. Sl.	cloudy

SAMPLE DESCRIPTION:

NOTES: Oscillated sl. cloudy to v. Muddy during 1st 40 gallon purging; turbidity during purging was inconsistent

Signature of Sampling Personnel: [signature] Date: 6/3/06

70
5
75

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-4

DAY/DATE: 6/13/06

PERSONNEL: [illegible] / RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD): E

TOTAL WELL DEPTH (feet): (a) = ± 260

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

Date/Time: LAB 6/12/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u):	inst.	inst.	inst.
Conductance (µmhos/cm):		inst.	inst.
Turbidity (NTU):		inst.	inst.
D.O. (mg/l): 100%		inst.	inst.
@100% air			

WELL TYPE: ___ Onsite X Offsite

X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 172.5

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 172 = (h) 88

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 14

MINIMUM PURGE VOLUME (gallons) = wv x 3 = 40 - (43)

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ ___ [Fill Time (minutes)] = ___ gallons/minute

Acc gal Well Volume / Sample	Start Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	11 22	7.25	839	9.5	375 Hz	V. cloudy / Pur
2 10	11 25	7.40	838	8.4	"	cloudy
3 15	11 28	7.30	842	8.3	"	cloudy
4 20	11 30	7.28	833	8.3	"	"
5 30	11 36	7.30	808	8.3	"	Sl. less Cloudy
± 40	11.42	7.27	801	8.2		less Cloudy
Sample ± 60	11 41 AM	7.40	803	8.2		Sl. cloudy / clear

SAMPLE DESCRIPTION:

NOTES: set Pump @ 190 ±

Signature of Sampling Personnel: [illegible] Date: 6/13/06

Flow ± 5 gal/3 min ±

ENGINEERS INC

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Nu-West Industries/Agrium

~~SITE NAME:~~ Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-05

DAY/DATE: SAT. 6/3/06

PERSONNEL: WAE/RP

WELL DIAMETER (inches): (d) = 2"

TOP OF CASING ELEVATION (feet NGVD):

TOTAL WELL DEPTH (feet): (a) = 260'±

GROUND WATER ELEVATION (feet NGVD):

WATER COLUMN HEIGHT (feet) = (a) 260± (b) 178 = (h) 82

WATER COLUMN VOLUME (gallons): (wv) = 0.041 $(d)^2$ (h) = 13± gals

MINIMUM PURGE VOLUME (gallons) = wv x 3 = ±40

PUMPING RATE:

[Volume of Container (gallons)] 5.0 ÷ [Fill Time (minutes)] = Hz gallons/minute

EQUIPMENT CALIBRATION

Date/Time: LAB 6/2/06

CALIBRATION STANDARDS & METER READINGS

pH (s.u): inst. inst. inst.

Conductance (µmhos/cm): inst. inst.

Turbidity (NTU): inst. inst.

D.O. (mg/l): 100% inst. inst.
@100% air

WELL TYPE: ___ Onsite X Offsite
X Monitor ___ Domestic ___ Production

DEPTH TO WATER (feet): (b) = 178 ±

Pump Rate ± 2.5 gpm

Acc gal Well Volume / Sample	START Time (hh:mm)	pH (std. units)	Specific Conductance (µmhos/cm)	Temperature (° C)	~~Dissolved Oxygen (mg/l)~~	Turbidity (NTU)
1 5	12 32	7.59	963	7.9	378Hz	Cloudy
2 10	12 34	6.92	968	8.1		Sl. Cloudy
3 15	12 36	6.87	971	8.1		Sl. Cloudy
4 20	12 38	6.86	968	8.0		Sl. Cloudy
5 40	12 42	6.82	968	7.9		V. Sl. Cloudy
>45 Sample	12 50	6.86	970	8.0		Clear

SAMPLE DESCRIPTION: Clear

NOTES: Set Pump @ 195'±

Signature of Sampling Personnel: WAE Date: 6/3/06

APPENDIX B

APPENDIX B

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

Appendix B
Monitor Well and Piezometer Water Level Data
November 1999 through June 2006

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)													
			11/24/1999	10/25/2000	4/19/2001	7/31/2001	11/11/2001	6/10/2002	10/28/2002	5/6/2003	10/28/2003	5/4/2004	10/25/2004	6/29/2005	10/29/2005	Jun-06
A-1	6,221.71	6,155.01	6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6186.46	6188.15	6186.81	6189.7	6190.7	6189.0
A-2	6,156.75	6,126.55	6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09			6,134.7	6127.0	6146.0	6144.9
A-3	6,149.77	6,041.77	6,068.35	6,050.29	6,053.88	6,042.97		6,054.70								6060.4
A-4	6,149.83	6,034.43	6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6,067.68	6,063.33	6,057.48	6062.4	6062.8	6111.5
A-5	6,150.42	5,937.42	6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6,036.31	6,033.40	6,030.12	6032.4	6029.2	6067.0
A-6	6,150.18	6,031.08	6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56				6033.4	6031.9	6044.2
A-7	6,150.47	6,029.27	6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6,030.56	6,029.60				6063.8
A-8	6,148.99	6,021.89	6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65							6037.0
A-9/A-9A	6,146.25	5,995.25	6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6,012.09	6,011.37	6,009.79	6011.4	6010.4	6039.7
A-10	6,124.25	5,925.15							5,985.16	5,986.58	5,983.11	5,985.20	5,982.45	5988.3	5983.3	5992.0

NUW 005016

APPENDIX C

APPENDIX C

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

Date Submitted: 6/2/2006
Date Reported: 6/22/2006

10606-1160	10606-1161	10606-1162	10606-1163	10606-1164	10606-1165	10606-1166	10606-1167	10606-1169	10606-1170	10606-1171
NW-8	NW-9	NW-10	Torgesen	JRS 10	JRS 11	Lowry	Armaz	JRS8	MWA	MWB
/1/06 11:22	6/1/06 14:53	6/2/06 9:09	6/1/06 17:25	6/1/06 16:47	6/1/06 16:20	6/1/06 12:43	6/1/06 13:28	6/2/06 12:00	6/2/06 12:00	6/2/06 14:35
<0.03	20.2	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	1.43	25.2
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	0.007
0.14	<0.05	0.09	0.08	0.09	<0.05	<0.05	0.08	<0.05	<0.05	<0.05
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
67	167	126	184	243	102	92	199	256	275	163
<0.002	0.093	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.016	0.094
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.07
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4.5	9.7	2.7	4.5	8.6	1.2	4.5	4.8	7.0	21.2	11.0
19.0	99.0	57.2	77.9	85.2	16.6	17.7	58.9	74.2	198	161
<0.01	**2.80**	**0.65**	<0.01	**0.15**	<0.01	<0.01	<0.01	**0.33**	**9.2**	**6.3**
<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
<0.05	0.37	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	0.54
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0.005	0.016	<0.003	<0.003	<0.003	0.035	<0.003	<0.003	0.006	<0.003	0.004
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
<0.05	1.09	<0.05	0.07	<0.05	<0.05	0.32	0.35	<0.05	0.07	1.13
<0.05	8.3	0.32	0.11	3.8	<0.05	<0.05	0.11	0.78	80	5.1
175	14	329	343	399	329	203	560	238	161	35
175	14	329	343	399	329	203	560	238	161	35
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
13	56	8	78	34	12	44	7	48	173	36
<0.5	**89**	0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	**7.2**	**64**
0.07	96	0.16	0.11	6.6	0.10	0.09	0.06	1.3	32	63
0.05	96	<0.05	0.10	6.4	<0.05	0.08	<0.05	1.1	29	64
3.2	**18.7**	<1.0	**52**	**24.0**	1.7	**17.1**	<1.0	**28**	**159**	4.9
3.2	**27.7**	<0.5	**52**	**27.8**	1.7	**17.1**	<0.5	**28.9**	**237**	9.9
<0.5	9.0	<0.5	<0.5	3.8	<0.5	<0.5	<0.5	0.9	78	5.0
9.0	85.8	10.4	19.8	73.6	7.7	35.8	6.4	78.4	108	86
474	1616	886	1345	1609	573	695	1125	1654	3260	1785
29	**647**	154	72	**424**	60	61	33	**556**	**1121**	**784**
310	**1538**	**660**	**936**	**1366**	396	460	**728**	**1488**	**3282**	**1826**
<2	65	4	<2	<2	<2	<2	<2	<2	7	128
7.7	5.4	7.1	7.0	6.1	7.2	7.4	6.9	**6.4**	**5.8**	**5.5**
1.29	7.07	0	1.45	2.94	3.39	3.71	7.52	4.44	0	4.37
4.09	1.22	5.37	6.53	1.28	3.75	4.58	6.56	1	1.56	4.07

10606-1176	10606-1177	10606-1178	10606-1179	10606-1180	10606-1181	10606-1182	10606-1183	10606-1184	10606-1185	10606-1186	1060
MWO5-4	MWO5-5	A-3	A-5	A-6	A-8	A-2	A2A	A9A	A-10	A-1	
6/3/06 11:47	6/3/06 12:50	6/3/06 18:50	6/3/06 18:30	6/3/06 17:15	6/3/06 16:40	6/3/06 15:13	6/3/06 9:55	6/3/06 16:08	6/3/06 13:40	6/4/06 10:00	6/4/0
<0.03	<0.03	0.05	<0.03	<0.03	0.07	<0.03	<0.03	<0.03	<0.03	<0.03	<
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<(
<0.005	<0.005	<0.005	<0.005	0.008	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0
<0.05	0.08	0.14	0.06	0.17	0.15	0.06	0.08	0.08	0.05	0.06	<
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<(
97	119	194	178	286	233	102	96	292	133	63	
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<(
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<
<0.05	<0.05	0.05	<0.05	<0.05	0.06	<0.05	0.11	<0.05	<0.05	<0.05	<
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<(
2.9	3.7	5.4	11.0	22.3	56.3	1.0	2.5	9.6	4.3	1.3	6
47.0	55.5	70.0	74.2	134	174	43.9	46.0	135	50.8	17.9	
<0.01	<0.01	<0.01	<0.01	**0.09**	**0.27**	<0.01	**0.47**	0.04	<0.01	<0.01	1
<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<(
<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<
<0.05	0.15	0.18	0.20	17	61	0.09	0.24	1.61	0.11	<0.05	
287	343	553	392	910	987	308	308	714	301	182	5
287	343	553	392	910	987	308	308	714	301	182	5
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
15	7	9	20	48	54	6	6	35	18	17	
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	0.5	<0.5	<0.5	<0.5	<
0.06	0.96	0.23	0.08	38	68	0.06	0.07	2.1	0.09	0.06	
0.05	0.92	0.22	0.08	34	60	<0.05	0.06	2.1	0.08	<0.05	
3.4	3.0	2.3	1.1	**32**	**26**	<1.0	<1.0	6.0	7.4	<1.0	
3.4	3.0	2.3	1.1	**57**	**86**	0.7	<0.5	7.8	7.4	<0.5	
<0.5	<0.5	<0.5	<0.5	25	60	0.7	<0.5	1.8	<0.5	<0.5	
7.7	19.7	26.9	19.5	279	532	4.6	6.3	124	15.8	6.1	5
691	890	1314	1011	2770	3830	689	713	2170	868	451	3
28	70	118	220	**516**	**1132**	39	40	**582**	98	8	5
378	434	**930**	**908**	**2234**	**3160**	436	416	**1858**	**672**	264	**2**
5	2	40	<2	10	12	<2	6	6	5	<2	
7.6	6.9	6.7	7.1	6.5	6.6	7.5	7.4	6.7	7.2	7.6	
1.48	2.16	1.92	5.46	3.21	0	2.03	2.52	4.92	1.65	8.39	3
3.51	6.17	7.84	1.38	2.31	6.19	5.04	3.74	1.34	8.57	3.46	7

APPENDIX D

APPENDIX D

GROUND WATER ASSESSMENT REPORT
SPRING 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
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EnviroChem

- INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/2/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1159	10606-1160	10606-1161	10606-1162	10606-1163
Sample Description:	NW-7	NW-8	NW-9	NW-10	Torgesen
Date & Time Collected:	6/1/06 11:53	6/1/06 11:22	6/1/06 14:53	6/2/06 9:09	6/1/06 17:25
Aluminum mg/L (0.03)	<0.03	<0.03	20.2	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	0.008	<0.005	<0.005
Barium mg/L (0.05)	0.13	0.14	<0.05	0.09	0.08
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	115	67	167	126	184
Cadmium mg/L (0.002)	<0.002	<0.002	0.093	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	0.12	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	4.8	4.5	9.7	2.7	4.5
Magnesium mg/L (0.1)	33.5	19.0	99.0	57.2	77.9
Manganese mg/L (0.01)	<0.01	<0.01	2.80	0.65	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	0.37	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.016	0.005	0.016	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	1.09	<0.05	0.07
Ammonia Total mg/L (0.05)	<0.05	<0.05	8.3	0.32	0.11
Alkalinity mg/L (5)	252	175	14	329	343
Bicarbonate Alk mg/L (5)	252	175	14	329	343
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	19	13	56	8	78
Fluoride mg/L (0.5)	<0.5	<0.5	89	0.5	<0.5
Phosphorus:P mg/L (0.05)	0.15	0.07	96	0.16	0.11
Ortho-Phosphate:P mg/L (0.05)	0.08	0.05	96	<0.05	0.10
Nitrate as N mg/L (1)	3.8	3.2	18.7	<1.0	52
Nitrogen Total mg/L (0.5)**	3.8	3.2	27.7	<0.5	52
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	9.0	<0.5	<0.5
Sodium mg/L (0.05)	12.3	9.0	85.8	10.4	19.8
Specific Conductance uS (0.5)	753	474	1616	886	1345
Sulfate mg/L (5)	148	29	647	154	72
Total Dissolved Solids mg/L (2)	556	310	1538	660	936
Total Suspended Solids mg/L (2)	<2	<2	65	4	<2
pH Units	7.5	7.7	5.4	7.1	7.0

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/2/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1164	10606-1165	10606-1166	10606-1167
Sample Description:	JRS 10	JRS 11	Lowry	Armaz
Date & Time Collected:	6/1/06 16:47	6/1/06 16:20	6/1/06 12:43	6/1/06 13:28
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.09	<0.05	<0.05	0.08
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	243	102	92	199
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	8.6	1.2	4.5	4.8
Magnesium mg/L (0.1)	85.2	16.6	17.7	58.9
Manganese mg/L (0.01)	0.15	<0.01	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	0.035	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	0.32	0.35
Ammonia Total mg/L (0.05)	3.8	<0.05	<0.05	0.11
Alkalinity mg/L (5)	399	329	203	560
Bicarbonate Alk mg/L (5)	399	329	203	560
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	34	12	44	7
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	0.8
Phosphorus:P mg/L (0.05)	6.6	0.10	0.09	0.06
Ortho-Phosphate:P mg/L (0.05)	6.4	<0.05	0.08	<0.05
Nitrate as N mg/L (1)	24.0	1.7	17.1	<1.0
Nitrogen Total mg/L (0.5)**	27.8	1.7	17.1	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	3.8	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	73.6	7.7	35.8	6.4
Specific Conductance uS (0.5)	1609	573	695	1125
Sulfate mg/L (5)	424	60	61	33
Total Dissolved Solids mg/L (2)	1366	396	460	728
Total Suspended Solids mg/L (2)	<2	<2	<2	<2
pH Units	6.1	7.2	7.4	6.9

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/3/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1169	10606-1170	10606-1171	10606-1172	10606-1173
Sample Description:	JRS8	MWA	MWB	MWO5-1	MWO5-1 DUP
Date & Time Collected:	6/2/06 12:00	6/2/06 12:00	6/2/06 14:35	6/3/06 11:00	6/3/06 11:00
Aluminum mg/L (0.03)	<0.03	1.43	25.2	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	0.007	0.007	<0.005	<0.005
Barium mg/L (0.05)	<0.05	<0.05	<0.05	0.06	0.06
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	256	275	163	91	92
Cadmium mg/L (0.002)	<0.002	0.016	0.094	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	0.06	0.07	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	7.0	21.2	11.0	2.7	2.7
Magnesium mg/L (0.1)	74.2	198	161	46.1	46.5
Manganese mg/L (0.01)	0.33	9.2	6.3	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	0.27	0.54	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.006	<0.003	0.004	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	0.07	1.13	<0.05	<0.05
Ammonia Total mg/L (0.05)	0.78	80	5.1	<0.05	<0.05
Alkalinity mg/L (5)	238	161	35	294	308
Bicarbonate Alk mg/L (5)	238	161	35	294	308
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	48	173	36	7	7
Fluoride mg/L (0.5)	<0.5	7.2	64	<0.5	<0.5
Phosphorus:P mg/L (0.05)	1.3	32	63	0.05	0.05
Ortho-Phosphate:P mg/L (0.05)	1.1	29	64	<0.05	<0.05
Nitrate as N mg/L (1)	28	159	4.9	2.4	2.4
Nitrogen Total mg/L (0.5)**	28.9	237	9.9	2.4	2.4
Nitrogen Total Kjeldahl mg/L (0.5)	0.9	78	5.0	<0.5	<0.5
Sodium mg/L (0.05)	78.4	108	86	7.4	7.6
Specific Conductance uS (0.5)	1654	3260	1785	696	689
Sulfate mg/L (5)	556	1121	784	27	27
Total Dissolved Solids mg/L (2)	1488	3282	1826	414	396
Total Suspended Solids mg/L (2)	<2	7	128	3	<2
pH Units	6.4	5.8	5.5	7.5	7.5

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
3314 Pole Line Road • Pocatello, Idaho 83201
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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/3/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1174	10606-1175	10606-1176	10606-1177	10606-1178
Sample Description:	MWO5-2	MWO5-3	MWO5-4	MWO5-5	A-3
Date & Time Collected:	6/3/06 9:17	6/3/06 14:34	6/3/06 11:47	6/3/06 12:50	6/3/06 18:50
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	0.05
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.07	0.09	<0.05	0.08	0.14
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	108	110	97	119	194
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	0.09	0.05	<0.05	<0.05	0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	2.1	3.4	2.9	3.7	5.4
Magnesium mg/L (0.1)	50.0	60.0	47.0	55.5	70.0
Manganese mg/L (0.01)	0.13	0.04	<0.01	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	0.11	0.06	<0.05	0.15	0.18
Alkalinity mg/L (5)	322	420	287	343	553
Bicarbonate Alk mg/L (5)	322	420	287	343	553
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	6	7	15	7	9
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	<0.05	<0.05	0.06	0.96	0.23
Ortho-Phosphate:P mg/L (0.05)	<0.05	<0.05	0.05	0.92	0.22
Nitrate as N mg/L (1)	<1.0	<1.0	3.4	3.0	2.3
Nitrogen Total mg/L (0.5)**	<0.5	<0.5	3.4	3.0	2.3
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	5.1	7.3	7.7	19.7	26.9
Specific Conductance uS (0.5)	758	833	691	890	1314
Sulfate mg/L (5)	49	69	28	70	118
Total Dissolved Solids mg/L (2)	482	432	378	434	930
Total Suspended Solids mg/L (2)	4	<2	5	2	40
pH Units	7.3	7.6	7.6	6.9	6.7

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/3/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1179	10606-1180	10606-1181	10606-1182	10606-1183
Sample Description:	A-5	A-6	A-8	A-2	A2A
Date & Time Collected:	6/3/06 18:30	6/3/06 17:15	6/3/06 16:40	6/3/06 15:13	6/3/06 9:55
Aluminum mg/L (0.03)	<0.03	<0.03	0.07	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	0.008	0.007	<0.005	<0.005
Barium mg/L (0.05)	0.06	0.17	0.15	0.06	0.08
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	178	286	233	102	96
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	0.06	<0.05	0.11
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	11.0	22.3	56.3	1.0	2.5
Magnesium mg/L (0.1)	74.2	134	174	43.9	46.0
Manganese mg/L (0.01)	<0.01	0.09	0.27	<0.01	0.47
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	0.20	17	61	0.09	0.24
Alkalinity mg/L (5)	392	910	987	308	308
Bicarbonate Alk mg/L (5)	392	910	987	308	308
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	20	48	54	6	6
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	0.7	0.5
Phosphorus:P mg/L (0.05)	0.08	38	68	0.06	0.07
Ortho-Phosphate:P mg/L (0.05)	0.08	34	60	<0.05	0.06
Nitrate as N mg/L (1)	1.1	32	26	<1.0	<1.0
Nitrogen Total mg/L (0.5)**	1.1	57	86	0.7	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	25	60	0.7	<0.5
Sodium mg/L (0.05)	19.5	279	532	4.6	6.3
Specific Conductance uS (0.5)	1011	2770	3830	689	713
Sulfate mg/L (5)	220	516	1132	39	40
Total Dissolved Solids mg/L (2)	908	2234	3160	436	416
Total Suspended Solids mg/L (2)	<2	10	12	<2	6
pH Units	7.1	6.5	6.6	7.5	7.4

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/3 & 4/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1184	10606-1185	10606-1186	10606-1187	10606-1188
Sample Description:	A9A	A-10	A-1	A-7	A-4
Date & Time Collected:	6/3/06 16:08	6/3/06 13:40	6/4/06 10:00	6/4/06 10:46	6/4/06 11:40
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	0.012	<0.005
Barium mg/L (0.05)	0.08	0.05	0.06	<0.05	0.06
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	292	133	63	119	410
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	9.6	4.3	1.3	80.1	7.3
Magnesium mg/L (0.1)	135	50.8	17.9	132	164
Manganese mg/L (0.01)	0.04	<0.01	<0.01	1.03	0.19
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	0.009	0.016
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	1.61	0.11	<0.05	82	0.43
Alkalinity mg/L (5)	714	301	182	938	756
Bicarbonate Alk mg/L (5)	714	301	182	938	756
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	35	18	17	42	28
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	2.1	0.09	0.06	105	0.33
Ortho-Phosphate:P mg/L (0.05)	2.1	0.08	<0.05	105	0.28
Nitrate as N mg/L (1)	6.0	7.4	<1.0	7.6	25
Nitrogen Total mg/L (0.5)**	7.8	7.4	<0.5	104	25
Nitrogen Total Kjeldahl mg/L (0.5)	1.8	<0.5	<0.5	97	<0.5
Sodium mg/L (0.05)	124	15.8	6.1	569	106
Specific Conductance uS (0.5)	2170	868	451	3740	2580
Sulfate mg/L (5)	582	98	8	975	600
Total Dissolved Solids mg/L (2)	1858	672	264	2728	2238
Total Suspended Solids mg/L (2)	6	5	<2	7	13
pH Units	6.7	7.2	7.6	6.6	6.4

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 6/4/2006
Date Reported: 6/22/2006

Tracking Number:	10606-1189
Sample Description:	Equip. Blank
Date & Time Collected:	6/4/06 12:00
Aluminum mg/L (0.03)	0.05
Antimony mg/L (0.003)	<0.003
Arsenic mg/L (0.005)	<0.005
Barium mg/L (0.05)	<0.05
Beryllium mg/L (0.002)	<0.002
Calcium mg/L (1)	0.96
Cadmium mg/L (0.002)	<0.002
Cobalt mg/L (0.01)	<0.01
Chromium mg/L (0.05)	<0.05
Copper mg/L (0.05)	<0.05
Iron mg/L (0.05)	<0.05
Lead mg/L (0.003)	<0.003
Potassium mg/L (0.5)	<0.5
Magnesium mg/L (0.1)	0.2
Manganese mg/L (0.01)	<0.01
Mercury mg/L (0.0008)	<0.0008
Nickel mg/L (0.05)	<0.05
Silver mg/L (0.05)	<0.05
Selenium mg/L (0.003)	<0.003
Thallium mg/L (0.001)	<0.001
Vanadium mg/L (0.03)	<0.03
Zinc mg/L (0.05)	<0.05
Ammonia Total mg/L (0.05)	<0.05
Alkalinity mg/L (5)	7
Bicarbonate Alk mg/L (5)	7
Carbonate Alkalinity mg/L (5)	<5
Chloride mg/L (5)	<5
Fluoride mg/L (0.5)	<0.5
Phosphorus:P mg/L (0.05)	<0.05
Ortho-Phosphate:P mg/L (0.05)	<0.05
Nitrate as N mg/L (1)	<1.0
Nitrogen Total mg/L (0.5)**	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5
Sodium mg/L (0.05)	0.25
Specific Conductance uS (0.5)	7
Sulfate mg/L (5)	<5
Total Dissolved Solids mg/L (2)	<2
Total Suspended Solids mg/L (2)	<2
pH Units	7.2

G. Ryan Pattie/bd
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

**TKN + Nitrate value expressed as N mg/L

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ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 20, 2006

Report to:
Chuck Jessell
Nu-West Industries, Inc.
3010 Conda Road
Soda Springs, ID 83276

Bill to:
Accounts Payable
Nu-West Industries Inc.
P.O. Box 5000, Station A
Calgary, Canada, AB T2H 3B9

Project ID: NUW0601P
ACZ Project ID: L56925

Chuck Jessell:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 03, 2006. This project has been assigned to ACZ's project number, L56925. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L56925. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 20, 2006. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

20/Jun/06

Scott Habermehl, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Nu-West Industries, Inc.
Project ID: NUW0601P
Sample ID: NW-9

ACZ Sample ID: *L56925-01*
Date Sampled: *06/01/06 14:53*
Date Received: *06/03/06*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor							06/05/06 17:11	jag

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	22.00			mg/L	0.03	0.2	06/13/06 21:58	msh
Antimony, dissolved	M200.8 ICP-MS	0.0010	B		mg/L	0.0004	0.002	06/07/06 4:06	jjr
Arsenic, dissolved	M200.8 ICP-MS	0.0161			mg/L	0.0005	0.003	06/07/06 4:06	jjr
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.01	06/13/06 21:58	msh
Beryllium, dissolved	M200.8 ICP-MS	0.0017			mg/L	0.0001	0.0005	06/07/06 4:06	jjr
Cadmium, dissolved	M200.8 ICP-MS	0.0900			mg/L	0.0001	0.0005	06/07/06 4:06	jjr
Calcium, dissolved	M200.7 ICP	168			mg/L	0.2	1	06/13/06 21:58	msh
Chromium, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	06/13/06 21:58	msh
Cobalt, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	06/15/06 4:14	wfg
Copper, dissolved	M200.7 ICP	0.05	B		mg/L	0.01	0.05	06/13/06 21:58	msh
Iron, dissolved	M200.7 ICP	2.17			mg/L	0.02	0.05	06/16/06 15:07	msh
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/06 4:06	jjr
Magnesium, dissolved	M200.7 ICP	100			mg/L	0.2	1	06/13/06 21:58	msh
Manganese, dissolved	M200.7 ICP	2.740			mg/L	0.005	0.03	06/13/06 21:58	msh
Mercury, dissolved	M245.1 CVAA		U		mg/L	0.0002	0.001	06/13/06 16:38	djt
Nickel, dissolved	M200.7 ICP	0.37			mg/L	0.01	0.05	06/13/06 21:58	msh
Potassium, dissolved	M200.7 ICP	9.7			mg/L	0.3	1	06/13/06 21:58	msh
Selenium, dissolved	M200.8 ICP-MS	0.0149			mg/L	0.0001	0.0005	06/08/06 6:22	jjr
Silver, dissolved	M200.8 ICP-MS	0.00024	B		mg/L	5E-05	0.0003	06/08/06 6:22	jjr
Thallium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0001	0.0005	06/07/06 4:06	jjr
Vanadium, dissolved	M200.7 ICP	0.068			mg/L	0.005	0.03	06/13/06 21:58	msh
Zinc, dissolved	M200.7 ICP	1.09			mg/L	0.01	0.05	06/13/06 21:58	msh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Nu-West Industries, Inc.

Project ID: NUW0601P

Sample ID: NW-9

ACZ Sample ID: ***L56925-01***

Date Sampled: *06/01/06 14:53*

Date Received: *06/03/06*

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	M325.2 - Colorimetric	55			mg/L	1	5	06/09/06 10:35	jag
Conductivity @25C	M120.1 - Meter	1760			umhos/cm	1	10	06/08/06 21:35	jlf
Fluoride	SM4500F-C	42.5		*	mg/L	0.1	0.5	06/13/06 13:26	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	18.7			mg/L	0.3	2	06/20/06 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	18.8	H	*	mg/L	0.3	2	06/03/06 16:52	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.11	H	*	mg/L	0.01	0.05	06/03/06 16:46	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	8.91			mg/L	0.05	0.5	06/08/06 14:08	jag
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	9.0		*	mg/L	0.5	3	06/07/06 16:50	jag
Phosphate, total	Calculation based on total Phosphorus	239			mg/L	0.03	0.15	06/20/06 0:00	calc
Phosphorus, ortho total	M365.1 - Automated Ascorbic Acid	77	H	*	mg/L	5	30	06/03/06 21:17	pjb
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	1570		*	mg/L	10	20	06/08/06 14:16	jlf
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	58		*	mg/L	5	20	06/08/06 14:16	jlf

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Nu-West Industries, Inc.
Project ID: NUW0601P
Sample ID: NW-10

ACZ Sample ID: *L56925-02*
Date Sampled: *06/02/06 09:09*
Date Received: *06/03/06*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor							06/05/06 17:27	jag

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/13/06 22:03	msh
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/07/06 4:13	jjr
Arsenic, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	06/07/06 4:13	jjr
Barium, dissolved	M200.7 ICP	0.113			mg/L	0.003	0.01	06/13/06 22:03	msh
Beryllium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/06 4:13	jjr
Cadmium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/06 4:13	jjr
Calcium, dissolved	M200.7 ICP	121			mg/L	0.2	1	06/13/06 22:03	msh
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/13/06 22:03	msh
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/15/06 4:35	wfg
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/13/06 22:03	msh
Iron, dissolved	M200.7 ICP	2.73			mg/L	0.02	0.05	06/16/06 15:17	msh
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/06 4:13	jjr
Magnesium, dissolved	M200.7 ICP	57.4			mg/L	0.2	1	06/13/06 22:03	msh
Manganese, dissolved	M200.7 ICP	0.658			mg/L	0.005	0.03	06/13/06 22:03	msh
Mercury, dissolved	M245.1 CVAA		U		mg/L	0.0002	0.001	06/13/06 16:40	djt
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/13/06 22:03	msh
Potassium, dissolved	M200.7 ICP	2.8			mg/L	0.3	1	06/13/06 22:03	msh
Selenium, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	06/08/06 6:42	jjr
Silver, dissolved	M200.8 ICP-MS	0.00008	B		mg/L	5E-05	0.0003	06/08/06 6:42	jjr
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/06 4:13	jjr
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/13/06 22:03	msh
Zinc, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	06/13/06 22:03	msh

** Please refer to Qualifier Reports for detail.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Nu-West Industries, Inc.

Project ID: NUW0601P
Sample ID: NW-10

ACZ Sample ID: ***L56925-02***
Date Sampled: *06/02/06 09:09*
Date Received: *06/03/06*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	M325.2 - Colorimetric	7			mg/L	1	5	06/09/06 10:38	jag
Conductivity @25C	M120.1 - Meter	953			umhos/cm	1	10	06/08/06 21:44	jlf
Fluoride	SM4500F-C	1.4		*	mg/L	0.1	0.5	06/13/06 13:43	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.06	B		mg/L	0.02	0.1	06/20/06 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.06	B	*	mg/L	0.02	0.1	06/03/06 16:51	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/03/06 16:51	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.20	B		mg/L	0.05	0.5	06/08/06 14:09	jag
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.3	B	*	mg/L	0.1	0.5	06/07/06 16:43	jag
Phosphate, total	Calculation based on total Phosphorus	0.18			mg/L	0.03	0.15	06/20/06 0:00	calc
Phosphorus, ortho total	M365.1 - Automated Ascorbic Acid	0.06		*	mg/L	0.01	0.05	06/03/06 21:20	pjb
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	630		*	mg/L	10	20	06/08/06 14:18	jlf
Residue, Non-Filterable (TSS) @105C	M160.2 - Gravimetric	12	B	*	mg/L	5	20	06/08/06 14:18	jlf

** Please refer to Qualifier Reports for detail.*

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLR

Data Package Contains 47 *Pages*

Report No.: 32675

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
31904		1159	J6F140287-1	H7D3L1AA	9H7D3L10	6170194
		1159 NW7	J6F140287-1	H7D3L2AC	9H7D3L20	6170199
		1160	J6F140287-2	H7D3P1AA	9H7D3P10	6170194
		1160 NW8	J6F140287-2	H7D3P2AC	9H7D3P20	6170199
		1161	J6F140287-3	H7D3R1AA	9H7D3R10	6170194
		1161 NW9	J6F140287-3	H7D3R3AC	9H7D3R30	6170199
		1162	J6F140287-4	H7D3W1AA	9H7D3W10	6170194
		1162 NW10	J6F140287-4	H7D3W2AC	9H7D3W20	6170199
		1163	J6F140287-5	H7D311AA	9H7D3110	6170194
		1163 TDR9.	J6F140287-5	H7D312AC	9H7D3120	6170199
		1164	J6F140287-6	H7D321AA	9H7D3210	6170194
		1164 JRS10	J6F140287-6	H7D323AC	9H7D3230	6170199
		1165	J6F140287-7	H7D331AA	9H7D3310	6170194
		1165 JRS11	J6F140287-7	H7D332AC	9H7D3320	6170199
		1166	J6F140287-8	H7D341AA	9H7D3410	6170194
		1166 LOWRY	J6F140287-8	H7D342AC	9H7D3420	6170199
		1167	J6F140287-9	H7D351AA	9H7D3510	6170194
		1167 ARMAZ	J6F140287-9	H7D352AC	9H7D3520	6170199
		1169	J6F140287-10	H7D361AA	9H7D3610	6170194
		1169 JRS8	J6F140287-10	H7D362AC	9H7D3620	6170199
		1170	J6F140287-11	H7D391AA	9H7D3910	6170194
		1170 MWA	J6F140287-11	H7D392AC	9H7D3920	6170199
		1171	J6F140287-12	H7D4E1AA	9H7D4E10	6170194
		1171 MWB	J6F140287-12	H7D4E2AC	9H7D4E20	6170199
		1173	J6F140287-13	H7D4F1AA	9H7D4F10	6170194
		1173 MW05-1	J6F140287-13	H7D4F2AC	9H7D4F20	6170199

Report No.: 32675

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
31904		1174	J6F140287-14	H7D4G1AA	9H7D4G10	6170194
		1174 MW05-2	J6F140287-14	H7D4G2AC	9H7D4G20	6170199
		1175	J6F140287-15	H7D4J2AA	9H7D4J20	6170196
		1175 MW05-3	J6F140287-15	H7D4J1AC	9H7D4J10	6170211
		1176	J6F140287-16	H7D4L2AA	9H7D4L20	6170196
		1176 MW05-4	J6F140287-16	H7D4L1AC	9H7D4L10	6170211
		1177	J6F140287-17	H7D4M2AA	9H7D4M20	6170196
		1177 MW05-5	J6F140287-17	H7D4M1AC	9H7D4M10	6170211
		1178	J6F140287-18	H7D4Q2AA	9H7D4Q20	6170196
		1178 A-3	J6F140287-18	H7D4Q1AC	9H7D4Q10	6170211
		1179	J6F140287-19	H7D4T2AA	9H7D4T20	6170196
		1179 A-5	J6F140287-19	H7D4T1AC	9H7D4T10	6170211
		1180	J6F140287-20	H7D4X2AA	9H7D4X20	6170196
		1180 A-6	J6F140287-20	H7D4X1AC	9H7D4X10	6170211
		1181	J6F140287-21	H7D422AA	9H7D4220	6170196
		1181 A-8	J6F140287-21	H7D421AC	9H7D4210	6170211
		1182	J6F140287-22	H7D442AA	9H7D4420	6170196
		1182 A-2	J6F140287-22	H7D441AC	9H7D4410	6170211
		1183	J6F140287-23	H7D462AA	9H7D4620	6170196
		1183 A2A	J6F140287-23	H7D461AC	9H7D4610	6170211
		1184	J6F140287-24	H7D472AA	9H7D4720	6170196
		1184 A9A	J6F140287-24	H7D471AC	9H7D4710	6170211
		1185	J6F140287-25	H7D492AA	9H7D4920	6170196
		1185 A10	J6F140287-25	H7D491AC	9H7D4910	6170211
		1186	J6F140287-26	H7D5C2AA	9H7D5C20	6170196
		1186 A-1	J6F140287-26	H7D5C1AC	9H7D5C10	6170211
		1187	J6F140287-27	H7D5E2AA	9H7D5E20	6170196
		1187 A-7	J6F140287-27	H7D5E1AC	9H7D5E10	6170211
		1188	J6F140287-28	H7D5G2AA	9H7D5G20	6170196
		1188 A-4	J6F140287-28	H7D5G1AC	9H7D5G10	6170211

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

July 17, 2006

Engineers, Inc.
301 W. College Avenue
Suite 1
Silver City, NM 88061

Attention: Wayne Ericson

Date Received in Lab	:	June 12, 2006
Sample Type	:	Twenty-eight (28) Water
SDG Number	:	31904
Project Name/Number	:	IAS EnviroChem
Requisition Number	:	NA

CASE NARRATIVE

I. Introduction

On June 12, 2006, twenty-eight water samples were received at the STL Richland (STLR) laboratory for radiochemical analysis. Upon receipt, the samples were assigned the STLR identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J6F140287.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gross Alpha by method RICH-RC-5014 (EPA 900.0)
Gross Beta by method RICH-RC-5014 (EPA 900.0)

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:

The samples were analyzed in two batches: 6170194 and 6170196. In the first batch, 6170194, the CRDL is not met due to high dissolved solids. Samples 10606-1160, -1165 and -1172 have results >MDA>CRDL. In the second batch, 6170196, the samples and QC were counted for a longer time to try to meet CRDL. However, samples 10606-1180, -1181, -1184, -1187 and -1188. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

Gross Beta Analysis:

The samples did not meet CRDL due to high dissolved solids even with recounting for a longer time. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 17-Jul-06

Report No. : 32675

SDG No: 31904

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6170194 RICHRC5014									
1159	H7D3L1AA	ALPHA	3.03E+00 +- 2.55E+00	U	pCi/L	100%	3.51E+00	3.00E+00	
1159 DUP	H7D3L1AD	ALPHA	3.10E+00 +- 2.52E+00	U	pCi/L	100%	3.49E+00	3.00E+00	0.0
1160	H7D3P1AA	ALPHA	1.29E+00 +- 1.51E+00	U	pCi/L	100%	2.62E+00	3.00E+00	
1161	H7D3R1AA	ALPHA	7.07E+00 +- 7.10E+00	U	pCi/L	100%	1.20E+01	3.00E+00	
1162	H7D3W1AA	ALPHA	-5.02E-01 +- 9.30E-01	U	pCi/L	100%	4.02E+00	3.00E+00	
1163	H7D311AA	ALPHA	1.45E+00 +- 2.47E+00	U	pCi/L	100%	5.17E+00	3.00E+00	
1164	H7D321AA	ALPHA	2.94E+00 +- 4.35E+00	U	pCi/L	100%	8.64E+00	3.00E+00	
1165	H7D331AA	ALPHA	3.39E+00 +- 2.18E+00		pCi/L	100%	2.42E+00	3.00E+00	
1166	H7D341AA	ALPHA	3.71E+00 +- 2.61E+00		pCi/L	100%	3.48E+00	3.00E+00	
1167	H7D351AA	ALPHA	7.52E-01 +- 1.72E+00	U	pCi/L	100%	4.01E+00	3.00E+00	
1169	H7D361AA	ALPHA	4.44E-01 +- 3.27E+00	U	pCi/L	100%	9.54E+00	3.00E+00	
1170	H7D391AA	ALPHA	-3.06E+00 +- 1.53E+00	U	pCi/L	100%	1.47E+01	3.00E+00	
1171	H7D4E1AA	ALPHA	4.37E-01 +- 4.29E+00	U	pCi/L	100%	1.28E+01	3.00E+00	
1173	H7D4F1AA	ALPHA	-2.56E-01 +- 9.67E-01	U	pCi/L	100%	3.35E+00	3.00E+00	
1174	H7D4G1AA	ALPHA	-5.52E-01 +- 1.02E+00	U	pCi/L	100%	4.42E+00	3.00E+00	
6170196 RICHRC5014									
1175	H7D4J2AA	ALPHA	5.55E-01 +- 1.05E+00	U	pCi/L	100%	2.11E+00	3.00E+00	
1175 DUP	H7D4J2AD	ALPHA	7.87E-01 +- 9.80E-01	U	pCi/L	100%	1.80E+00	3.00E+00	0.3
1176	H7D4L2AA	ALPHA	1.48E+00 +- 9.53E-01	J	pCi/L	100%	1.29E+00	3.00E+00	
1177	H7D4M2AA	ALPHA	2.16E-01 +- 6.52E-01	U	pCi/L	100%	1.40E+00	3.00E+00	

STL Richland

rptSTLRchSaSummary2 V4.15.0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 17-Jul-06

Report No. : 32675

SDG No: 31904

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6170196 RICHRC5014									
1178	H7D4Q2AA	ALPHA	1.92E-01 +- 1.05E+00	U	pCi/L	100%	2.37E+00	3.00E+00	
1179	H7D4T2AA	ALPHA	5.46E+00 +- 2.52E+00		pCi/L	100%	2.57E+00	3.00E+00	
1180	H7D4X2AA	ALPHA	3.21E+00 +- 3.04E+00	U	pCi/L	100%	4.68E+00	3.00E+00	
1181	H7D422AA	ALPHA	-2.86E+00 +- 4.05E+00	U	pCi/L	100%	1.14E+01	3.00E+00	
1182	H7D442AA	ALPHA	2.03E+00 +- 1.05E+00	J	pCi/L	100%	1.25E+00	3.00E+00	
1183	H7D462AA	ALPHA	2.52E-01 +- 6.48E-01	U	pCi/L	100%	1.37E+00	3.00E+00	
1184	H7D472AA	ALPHA	4.92E+00 +- 3.20E+00		pCi/L	100%	4.33E+00	3.00E+00	
1185	H7D492AA	ALPHA	1.65E+00 +- 1.14E+00	J	pCi/L	100%	1.42E+00	3.00E+00	
1186	H7D5C2AA	ALPHA	8.39E-01 +- 6.86E-01	U	pCi/L	100%	1.10E+00	3.00E+00	
1187	H7D5E2AA	ALPHA	3.36E+00 +- 4.66E+00	U	pCi/L	100%	8.80E+00	3.00E+00	
1188	H7D5G2AA	ALPHA	3.11E+00 +- 3.42E+00	U	pCi/L	100%	6.05E+00	3.00E+00	
6170199 RICHRC5014									
1159	H7D3L2AC	BETA	8.39E+00 +- 2.77E+00		pCi/L	100%	4.29E+00	4.00E+00	
1160	H7D3P2AC	BETA	4.09E+00 +- 2.11E+00		pCi/L	100%	3.72E+00	4.00E+00	
1160 DUP	H7D3P2AD	BETA	4.79E+00 +- 2.14E+00		pCi/L	100%	3.51E+00	4.00E+00	0.5
1161	H7D3R3AC	BETA	1.22E+01 +- 7.61E+00	U	pCi/L	100%	1.39E+01	4.00E+00	
1162	H7D3W2AC	BETA	5.37E+00 +- 3.72E+00	U	pCi/L	100%	6.88E+00	4.00E+00	
1163	H7D312AC	BETA	6.53E+00 +- 6.33E+00	U	pCi/L	100%	1.21E+01	4.00E+00	
1164	H7D323AC	BETA	1.28E+01 +- 5.65E+00		pCi/L	100%	9.58E+00	4.00E+00	
1165	H7D332AC	BETA	3.75E+00 +- 1.97E+00	J	pCi/L	100%	3.47E+00	4.00E+00	

STL Richland

rptSTLRchSaSummary2 V4.15.0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 17-Jul-06

Report No. : 32675

SDG No: 31904

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6170199 RICHRC5014									
	1166 H7D342AC	BETA	4.58E+00 +- 2.17E+00		pCi/L	100%	3.77E+00	4.00E+00	
	1167 H7D352AC	BETA	6.56E+00 +- 4.07E+00	U	pCi/L	100%	7.41E+00	4.00E+00	
	1169 H7D362AC	BETA	1.00E+01 +- 4.90E+00		pCi/L	100%	8.53E+00	4.00E+00	
	1170 H7D392AC	BETA	1.56E+01 +- 1.01E+01	U	pCi/L	100%	1.85E+01	4.00E+00	
	1171 H7D4E2AC	BETA	4.07E+00 +- 5.13E+00	U	pCi/L	100%	9.94E+00	4.00E+00	
	1173 H7D4F2AC	BETA	4.33E+00 +- 2.53E+00	U	pCi/L	100%	4.49E+00	4.00E+00	
	1174 H7D4G2AC	BETA	3.02E+00 +- 2.54E+00	U	pCi/L	100%	4.73E+00	4.00E+00	
6170211 RICHRC5014									
	1175 H7D4J1AC	BETA	3.34E+00 +- 5.05E+00	U	pCi/L	100%	1.06E+01	4.00E+00	
	1176 H7D4L1AC	BETA	3.51E+00 +- 3.94E+00	U	pCi/L	100%	8.10E+00	4.00E+00	
	1176 DUP H7D4L1AD	BETA	2.10E+00 +- 3.84E+00	U	pCi/L	100%	8.18E+00	4.00E+00	0.5
	1177 H7D4M1AC	BETA	6.17E+00 +- 3.69E+00	U	pCi/L	100%	6.99E+00	4.00E+00	
	1178 H7D4Q1AC	BETA	7.84E+00 +- 5.38E+00	U	pCi/L	100%	1.04E+01	4.00E+00	
	1179 H7D4T1AC	BETA	1.38E+01 +- 5.88E+00		pCi/L	100%	1.02E+01	4.00E+00	
	1180 H7D4X1AC	BETA	2.31E+01 +- 1.22E+01		pCi/L	100%	2.26E+01	4.00E+00	
	1181 H7D421AC	BETA	6.19E+01 +- 1.79E+01		pCi/L	100%	2.31E+01	4.00E+00	
	1182 H7D441AC	BETA	5.04E+00 +- 3.44E+00	U	pCi/L	100%	6.67E+00	4.00E+00	
	1183 H7D461AC	BETA	3.74E+00 +- 3.18E+00	U	pCi/L	100%	6.35E+00	4.00E+00	
	1184 H7D471AC	BETA	1.34E+01 +- 1.01E+01	U	pCi/L	100%	1.99E+01	4.00E+00	
	1185 H7D491AC	BETA	8.57E+00 +- 4.71E+00		pCi/L	100%	8.46E+00	4.00E+00	

STL Richland

rptSTLRchSaSummary2 V4.15.0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 17-Jul-06

Report No. : 32675

SDG No: 31904

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6170211	RICHRC5014								
1186									
	H7D5C1AC	BETA	3.46E+00 +- 2.53E+00	U	pCi/L	100%	4.97E+00	4.00E+00	
1187									
	H7D5E1AC	BETA	7.46E+01 +- 1.88E+01		pCi/L	100%	2.51E+01	4.00E+00	
1188									
	H7D5G1AC	BETA	4.10E+00 +- 1.18E+01	U	pCi/L	100%	2.56E+01	4.00E+00	

No. of Results: 60

STL Richland

rptSTLRchSaSummary2 V4.15.0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary
STL Richland STLR

Date: 17-Jul-06

Ordered by Method, Batch No, QC Type,.

Report No. : 32675

SDG No.: 31904

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	Recovery	Bias	MDC|MDA
RICHRC5014								
6170194 BLANK QC								
H7NX41AA	ALPHA	1.63E-01 +- 4.15E-01	U	pCi/L	100%			9.99E-01
6170194 LCS								
H7NX41AC	ALPHA	2.15E+01 +- 5.24E+00		pCi/L	100%	93%	-0.1	9.94E-01
RICHRC5014								
6170196 BLANK QC								
H7N0A1AA	ALPHA	1.36E-01 +- 4.71E-01	U	pCi/L	100%			1.19E+00
6170196 LCS								
H7N0A1AC	ALPHA	1.88E+01 +- 4.77E+00		pCi/L	100%	82%	-0.2	1.07E+00
RICHRC5014								
6170199 BLANK QC								
H7N0G1AA	BETA	2.86E-01 +- 1.17E+00	U	pCi/L	100%			2.57E+00
6170199 LCS								
H7N0G1AC	BETA	2.12E+01 +- 4.33E+00		pCi/L	100%	94%	-0.1	2.58E+00
RICHRC5014								
6170211 BLANK QC								
H7N0P1AA	BETA	8.47E-02 +- 1.26E+00	U	pCi/L	100%			2.80E+00
6170211 LCS								
H7N0P1AC	BETA	1.79E+01 +- 3.18E+00		pCi/L	100%	79%	-0.2	2.71E+00

No. of Results: 8

STL Richland

rptSTLRchQcSummary V4.15.0 A97

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Lab Name: STL Richland

Lot-Sample No.: J6F140287-1

Client Sample ID: 1159

SDG: 31904

Report No. : 32675

COC No. :

Date: 17-Jul-06

Collection Date: 6/1/2006 11:53:00 AM

Received Date: 6/12/2006 10:00:00 AM

Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order: H7D3L1AA			Report DB ID: 9H7D3L10					
ALPHA	3.03E+00	U	2.5E+00	2.5E+00	3.51E+00	pCi/L	100%	*0.86*	7/12/06 10:30 a		0.0798	GPC10C
						1.20E+00	3.00E+00	*(2.4)*			L	
Batch: 6170199	RICHRC5014			Work Order: H7D3L2AC			Report DB ID: 9H7D3L20					
BETA	8.39E+00		2.5E+00	2.8E+00	4.29E+00	pCi/L	100%	*(2.)*	7/12/06 07:36 p		0.092	GPC32A
						2.06E+00	4.00E+00	*(6.1)*			L	

No. of Results: 2 Comments:

12

Richland
LRchSample
.0497

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOW 005047

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 11:22:00 AM
Lot-Sample No.:	J6F140287-2	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1160	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D3P1AA		Report DB ID: 9H7D3P10					
ALPHA	1.29E+00	U	1.5E+00	1.5E+00	2.62E+00	pCi/L	100%	*0.49*	7/12/06 10:30 a		0.0911	GPC10E
						9.07E-01	3.00E+00	*(1.7)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D3P2AC		Report DB ID: 9H7D3P20					
BETA	4.09E+00		2.0E+00	2.1E+00	3.72E+00	pCi/L	100%	*(1.1)*	7/12/06 07:36 p		0.1039	GPC32B
						1.79E+00	4.00E+00	*(3.9)*			L	

No. of Results: 2 Comments:

13

STL Richland
rptSTLRchSample
V5.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005048

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 2:53:00 PM
Lot-Sample No.:	J6F140287-3	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1161	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order: H7D3R1AA		Report DB ID: 9H7D3R10						
ALPHA	7.07E+00	U	7.0E+00	7.1E+00	1.20E+01	pCi/L	100%	*0.59*	7/12/06 11:40 a		0.0277	GPC10A
						4.44E+00	3.00E+00	*(2.)*			L	
Batch: 6170199	RICHRC5014			Work Order: H7D3R3AC		Report DB ID: 9H7D3R30						
BETA	1.22E+01	U	7.4E+00	7.6E+00	1.39E+01	pCi/L	100%	*0.88*	7/12/06 07:36 p		0.0303	GPC32D
						6.70E+00	4.00E+00	*(3.2)*			L	

No. of Results: 2 Comments:

14

STL Richland
rptSTLRchSample
V6.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005049

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 9:09:00 AM
Lot-Sample No.:	J6F140287-4	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1162	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D3W1AA	Report DB ID:	9H7D3W10					
ALPHA	-5.02E-01	U	9.2E-01	9.3E-01	4.02E+00	pCi/L	100%	*-0.12*	7/12/06 11:40 a		0.0886	GPC10B
						1.44E+00	3.00E+00	*-(1.1)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D3W2AC	Report DB ID:	9H7D3W20					
BETA	5.37E+00	U	3.6E+00	3.7E+00	6.88E+00	pCi/L	100%	*0.78*	7/12/06 07:37 p		0.0638	GPC26A
						3.33E+00	4.00E+00	*(2.9)*			L	

No. of Results: 2 Comments:

15

STL Richland
rptSTLRchSample
V1.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NHW 005050

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 5:25:00 PM
Lot-Sample No.:	J6F140287-5	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1163	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D311AA		Report DB ID: 9H7D3110					
ALPHA	1.45E+00	U	2.5E+00	2.5E+00	5.17E+00	pCi/L	100%	*0.28*	7/12/06 11:40 a		0.0529	GPC10C
						1.77E+00	3.00E+00	*(1.2)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D312AC		Report DB ID: 9H7D3120					
BETA	6.53E+00	U	6.3E+00	6.3E+00	1.21E+01	pCi/L	100%	*0.54*	7/12/06 07:37 p		0.0349	GPC26B
						5.83E+00	4.00E+00	*(2.1)*			L	

No. of Results: 2 Comments:

16

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 4:47:00 PM
Lot-Sample No.:	J6F140287-6	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1164	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D321AA		Report DB ID: 9H7D3210					
ALPHA	2.94E+00	U	4.3E+00	4.4E+00	8.64E+00	pCi/L	100%	*0.34*	7/12/06 11:40 a		0.0415	GPC10D
						3.04E+00	3.00E+00	*(1.3)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D323AC		Report DB ID: 9H7D3230					
BETA	1.28E+01		5.4E+00	5.7E+00	9.58E+00	pCi/L	100%	*(1.3)*	7/12/06 07:37 p		0.0414	GPC26C
						4.61E+00	4.00E+00	*(4.5)*			L	

No. of Results: 2 Comments:

17

STL Richland
rptSTLRchSample
V8.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NJW 005052

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 4:20:00 PM
Lot-Sample No.:	J6F140287-7	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1165	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D331AA		Report DB ID:	9H7D3310				
ALPHA	3.39E+00		2.1E+00	2.2E+00	2.42E+00	pCi/L	100%	(1.4)	7/12/06 11:40 a		0.1244	GPC10E
						8.36E-01	3.00E+00	(3.1)			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D332AC		Report DB ID:	9H7D3320				
BETA	3.75E+00	J	1.9E+00	2.0E+00	3.47E+00	pCi/L	100%	(1.1)	7/12/06 07:37 p		0.1125	GPC26D
						1.67E+00	4.00E+00	(3.8)			L	

No. of Results: 2 Comments:

18

STL Richland
rptSTLRchSample
v9.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 12:43:00 PM
Lot-Sample No.:	J6F140287-8	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1166	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D341AA		Report DB ID:	9H7D3410				
ALPHA	3.71E+00		2.5E+00	2.6E+00	3.48E+00	pCi/L	100%	*(1.1)*	7/12/06 12:43 p		0.099	GPC10A
						1.29E+00	3.00E+00	*(2.8)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D342AC		Report DB ID:	9H7D3420				
BETA	4.58E+00		2.1E+00	2.2E+00	3.77E+00	pCi/L	100%	*(1.2)*	7/12/06 07:37 p		0.1073	GPC27A
						1.81E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

19

STL Richland
RptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOV005054

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 1:28:00 PM
Lot-Sample No.:	J6F140287-9	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1167	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D351AA		Report DB ID: 9H7D3510					
ALPHA	7.52E-01	U	1.7E+00	1.7E+00	4.01E+00	pCi/L	100%	*0.19*	7/12/06 12:43 p		0.1033	GPC10B
						1.44E+00	3.00E+00	*0.87*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D352AC		Report DB ID: 9H7D3520					
BETA	6.56E+00	U	4.0E+00	4.1E+00	7.41E+00	pCi/L	100%	*0.89*	7/12/06 07:37 p		0.0551	GPC27C
						3.57E+00	4.00E+00	*(3.2)*			L	

No. of Results: 2 Comments:

20

STL Richland
rptSTLRchSample
V 15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NEW 005055

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/2/2006 12:00:00 PM
Lot-Sample No.:	J6F140287-10	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1169	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D361AA		Report DB ID: 9H7D3610					
ALPHA	4.44E-01	U	3.3E+00	3.3E+00	9.54E+00	pCi/L	100%	*0.05*	7/12/06 12:43 p		0.0377	GPC10C
						3.27E+00	3.00E+00	*0.27*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D362AC		Report DB ID: 9H7D3620					
BETA	1.00E+01		4.7E+00	4.9E+00	8.53E+00	pCi/L	100%	*(1.2)*	7/12/06 07:37 p		0.0466	GPC27D
						4.11E+00	4.00E+00	*(4.1)*			L	

No. of Results: 2 Comments:

21

STL Richland
rptSTLRchSample
V15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NHW-005056

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/2/2006 12:00:00 PM
Lot-Sample No.:	J6F140287-11	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1170	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order: H7D391AA		Report DB ID: 9H7D3910						
ALPHA	-3.06E+00	U	1.4E+00	1.5E+00	1.47E+01	pCi/L	100%	*-0.21*	7/12/06 12:43 p		0.0203	GPC10D
						5.16E+00	3.00E+00	*-(4.)*			L	
Batch: 6170199	RICHRC5014			Work Order: H7D392AC		Report DB ID: 9H7D3920						
BETA	1.56E+01	U	9.9E+00	1.0E+01	1.85E+01	pCi/L	100%	*0.84*	7/12/06 07:37 p		0.0214	GPC28B
						8.91E+00	4.00E+00	*(3.1)*			L	

No. of Results: 2 Comments:

22

STL Richland
rptSTLRchSample
Ve15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NEW 005057

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/2/2006 2:35:00 PM
Lot-Sample No.:	J6F140287-12	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1171	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D4E1AA		Report DB ID:	9H7D4E10				
ALPHA	4.37E-01	U	4.3E+00	4.3E+00	1.28E+01	pCi/L	100%	*0.03*	7/12/06 12:43 p		0.0263	GPC10E
						4.41E+00	3.00E+00	*0.2*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D4E2AC		Report DB ID:	9H7D4E20				
BETA	4.07E+00	U	5.1E+00	5.1E+00	9.94E+00	pCi/L	100%	*0.41*	7/12/06 07:37 p		0.0398	GPC28C
						4.80E+00	4.00E+00	*(1.6)*			L	

No. of Results: 2 Comments:

23

STL Richland
rptSTLRchSample
9.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NHWW05058

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name: STL Richland
Lot-Sample No.: J6F140287-13
Client Sample ID: 1173

SDG: 31904
Report No. : 32675
COC No. :

Collection Date: 6/3/2006 11:00:00 AM
Received Date: 6/12/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order: H7D4F1AA		Report DB ID: 9H7D4F10						
ALPHA	-2.56E-01	U	9.7E-01	9.7E-01	3.35E+00	pCi/L	100%	*-0.08*	7/12/06 01:47 p		0.1176	GPC10A
						1.24E+00	3.00E+00	*-0.53*			L	
Batch: 6170199	RICHRC5014			Work Order: H7D4F2AC		Report DB ID: 9H7D4F20						
BETA	4.33E+00	U	2.4E+00	2.5E+00	4.49E+00	pCi/L	100%	*0.96*	7/12/06 07:37 p		0.0974	GPC28D
						2.16E+00	4.00E+00	*(3.4)*			L	

No. of Results: 2 Comments:

24

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-005059

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 9:17:00 AM
Lot-Sample No.:	J6F140287-14	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1174	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7D4G1AA		Report DB ID:	9H7D4G10				
ALPHA	-5.52E-01	U	1.0E+00	1.0E+00	4.42E+00	pCi/L	100%	*-0.12*	7/12/06 01:47 p		0.0578	GPC10B
						1.59E+00	3.00E+00	*-(1.1)*			L	
Batch: 6170199	RICHRC5014			Work Order:	H7D4G2AC		Report DB ID:	9H7D4G20				
BETA	3.02E+00	U	2.5E+00	2.5E+00	4.73E+00	pCi/L	100%	*0.64*	7/12/06 07:36 p		0.0753	GPC31B
						2.27E+00	4.00E+00	*(2.4)*			L	

No. of Results: 2 Comments:

25

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOW005060

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name: STL Richland
Lot-Sample No.: J6F140287-15
Client Sample ID: 1175

SDG: 31904
Report No. : 32675
COC No. :

Collection Date: 6/3/2006 2:34:00 PM
Received Date: 6/12/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D4J2AA		Report DB ID: 9H7D4J20						
ALPHA	5.55E-01	U	1.0E+00	1.1E+00	2.11E+00	pCi/L	100%	*0.26*	7/12/06 07:12 p		0.0637	GPC10A
						8.99E-01	3.00E+00	*(1.1)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D4J1AC		Report DB ID: 9H7D4J10						
BETA	3.34E+00	U	5.0E+00	5.0E+00	1.06E+01	pCi/L	100%	*0.31*	7/11/06 12:19 p		0.0636	GPC26A
						5.09E+00	4.00E+00	*(1.3)*			L	

No. of Results: 2 Comments:

26

STL Richland
rptSTLRchSample
04.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NWV 005061

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 11:47:00 AM
Lot-Sample No.:	J6F140287-16	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1176	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D4L2AA		Report DB ID: 9H7D4L20						
ALPHA	1.48E+00	J	9.0E-01	9.5E-01	1.29E+00	pCi/L	100%	*(1.1)*	7/12/06 07:12 p		0.0797	GPC10C
						5.26E-01	3.00E+00	*(3.1)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D4L1AC		Report DB ID: 9H7D4L10						
BETA	3.51E+00	U	3.9E+00	3.9E+00	8.10E+00	pCi/L	100%	*0.43*	7/11/06 12:19 p		0.073	GPC26C
						3.84E+00	4.00E+00	*(1.8)*			L	

No. of Results: 2 Comments:

27

STL Richland
StSTLRchSample
14.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 12:50:00 PM
Lot-Sample No.:	J6F140287-17	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1177	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D4M2AA		Report DB ID: 9H7D4M20						
ALPHA	2.16E-01	U	6.5E-01	6.5E-01	1.40E+00	pCi/L	100%	*0.15*	7/12/06 07:12 p		0.0913	GPC10D
						5.77E-01	3.00E+00	*0.66*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D4M1AC		Report DB ID: 9H7D4M10						
BETA	6.17E+00	U	3.6E+00	3.7E+00	6.99E+00	pCi/L	100%	*0.88*	7/11/06 12:19 p		0.0868	GPC27A
						3.32E+00	4.00E+00	*(3.3)*			L	

No. of Results: 2 Comments:

28

STL Richland
rptSTLRchSample
V4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVI-005063

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 6:50:00 PM
Lot-Sample No.:	J6F140287-18	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1178	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D4Q2AA		Report DB ID: 9H7D4Q20					
ALPHA	1.92E-01	U	1.0E+00	1.0E+00	2.37E+00	pCi/L	100%	*0.08*	7/12/06 07:12 p		0.0597	GPC10E
						9.71E-01	3.00E+00	*0.37*			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D4Q1AC		Report DB ID: 9H7D4Q10					
BETA	7.84E+00	U	5.3E+00	5.4E+00	1.04E+01	pCi/L	100%	*0.75*	7/11/06 12:19 p		0.0572	GPC27C
						4.95E+00	4.00E+00	*(2.9)*			L	

No. of Results: 2 Comments:

29

STL Richland
rptSTLRchSample
14.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 6:30:00 PM
Lot-Sample No.:	J6F140287-19	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1179	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D4T2AA		Report DB ID:	9H7D4T20				
ALPHA	5.46E+00		2.3E+00	2.5E+00	2.57E+00	pCi/L	100%	(2.1)	7/13/06 07:52 a		0.0509	GPC10A
						1.04E+00	3.00E+00	(4.3)			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D4T1AC		Report DB ID:	9H7D4T10				
BETA	1.38E+01		5.6E+00	5.9E+00	1.02E+01	pCi/L	100%	(1.3)	7/11/06 12:19 p		0.0573	GPC27D
						4.86E+00	4.00E+00	(4.7)			L	

No. of Results: 2 Comments:

30

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NWW085065

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 5:16:00 PM
Lot-Sample No.:	J6F140287-20	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1180	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D4X2AA		Report DB ID:	9H7D4X20				
ALPHA	3.21E+00	U	3.0E+00	3.0E+00	4.68E+00	pCi/L	100%	*0.69*	7/13/06 07:52 a		0.0213	GPC10B
						1.74E+00	3.00E+00	*(2.1)*			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D4X1AC		Report DB ID:	9H7D4X10				
BETA	2.31E+01		1.2E+01	1.2E+01	2.26E+01	pCi/L	100%	*(1.)*	7/11/06 12:19 p		0.0265	GPC31A
						1.07E+01	4.00E+00	*(3.8)*			L	

No. of Results: 2 Comments:

31

STL Richland
rptSTLRchSample
3.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value Is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 4:40:00 PM
Lot-Sample No.:	J6F140287-21	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1181	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D422AA	Report DB ID:	9H7D4220					
ALPHA	-2.86E+00	U	4.0E+00	4.1E+00	1.14E+01	pCi/L	100%	*-0.25*	7/13/06 07:52 a		0.0167	GPC10C
						4.80E+00	3.00E+00	*-(1.4)*			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D421AC	Report DB ID:	9H7D4210					
BETA	6.19E+01		1.5E+01	1.8E+01	2.31E+01	pCi/L	100%	*(2.7)*	7/11/06 12:19 p		0.0228	GPC31B
						1.09E+01	4.00E+00	*(6.9)*			L	

No. of Results: 2 Comments:

32

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 3:13:00 PM
Lot-Sample No.:	J6F140287-22	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1182	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D442AA			Report DB ID: 9H7D4420					
ALPHA	2.03E+00	J	9.7E-01	1.1E+00	1.25E+00	pCi/L	100%	*(1.6)*	7/13/06 07:52 a		0.0922	GPC10D
						5.12E-01	3.00E+00	*(3.9)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D441AC			Report DB ID: 9H7D4410					
BETA	5.04E+00	U	3.4E+00	3.4E+00	6.67E+00	pCi/L	100%	*0.76*	7/11/06 12:19 p		0.0867	GPC31C
						3.16E+00	4.00E+00	*(2.9)*			L	

No. of Results: 2 Comments:

33

STL Richland
ptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOVEP85068

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name: STL Richland
Lot-Sample No.: J6F140287-23
Client Sample ID: 1183

SDG: 31904
Report No. : 32675
COC No. :

Collection Date: 6/3/2006 9:55:00 AM
Received Date: 6/12/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D462AA		Report DB ID: 9H7D4620						
ALPHA	2.52E-01	U	6.5E-01	6.5E-01	1.37E+00	pCi/L	100%	*0.18*	7/13/06 07:52 a		0.0861	GPC10E
						5.62E-01	3.00E+00	*0.78*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D461AC		Report DB ID: 9H7D4610						
BETA	3.74E+00	U	3.1E+00	3.2E+00	6.35E+00	pCi/L	100%	*0.59*	7/11/06 12:19 p		0.0924	GPC32A
						3.01E+00	4.00E+00	*(2.4)*			L	

No. of Results: 2 Comments:

34

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOW 085069

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 4:08:00 PM
Lot-Sample No.:	J6F140287-24	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1184	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D472AA		Report DB ID: 9H7D4720					
ALPHA	4.92E+00		3.0E+00	3.2E+00	4.33E+00	pCi/L	100%	*(1.1)*	7/13/06 11:40 a		0.032	GPC10A
						1.75E+00	3.00E+00	*(3.1)*			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D471AC		Report DB ID: 9H7D4710					
BETA	1.34E+01	U	1.0E+01	1.0E+01	1.99E+01	pCi/L	100%	*0.67*	7/11/06 12:19 p		0.029	GPC32B
						9.44E+00	4.00E+00	*(2.7)*			L	

No. of Results: 2 Comments:

35

STL Richland
rptSTLRchSample
V8.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NDW-005070

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 1:40:00 PM
Lot-Sample No.:	J6F140287-25	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1185	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D492AA		Report DB ID: 9H7D4920						
ALPHA	1.65E+00	J	1.1E+00	1.1E+00	1.42E+00	pCi/L	100%	*(1.2)*	7/13/06 11:40 a		0.0641	GPC10B
						5.28E-01	3.00E+00	*(2.9)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D491AC		Report DB ID: 9H7D4910						
BETA	8.57E+00		4.5E+00	4.7E+00	8.46E+00	pCi/L	100%	*(1.)*	7/11/06 12:19 p		0.0618	GPC32C
						4.00E+00	4.00E+00	*(3.6)*			L	

No. of Results: 2 Comments:

36

STL Richland
rptSTLRchSample
V4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005071

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/4/2006 10:00:00 AM
Lot-Sample No.:	J6F140287-26	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1186	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D5C2AA		Report DB ID: 9H7D5C20						
ALPHA	8.39E-01	U	6.6E-01	6.9E-01	1.10E+00	pCi/L	100%	*0.76*	7/13/06 11:40 a		0.099	GPC10C
						4.62E-01	3.00E+00	*(2.4)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D5C1AC		Report DB ID: 9H7D5C10						
BETA	3.46E+00	U	2.5E+00	2.5E+00	4.97E+00	pCi/L	100%	*0.7*	7/11/06 12:19 p		0.1245	GPC32D
						2.37E+00	4.00E+00	*(2.7)*			L	

No. of Results: 2 Comments:

37

STL Richland
rptSTLRchSample
4.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005072

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/4/2006 10:46:00 AM
Lot-Sample No.:	J6F140287-27	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1187	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order:	H7D5E2AA	Report DB ID:	9H7D5E20					
ALPHA	3.36E+00	U	4.6E+00	4.7E+00	8.80E+00	pCi/L	100%	*0.38*	7/13/06 11:40 a		0.0172	GPC10D
						3.62E+00	3.00E+00	*(1.4)*			L	
Batch: 6170211	RICHRC5014			Work Order:	H7D5E1AC	Report DB ID:	9H7D5E10					
BETA	7.46E+01		1.6E+01	1.9E+01	2.51E+01	pCi/L	100%	*(3.)*	7/11/06 02:11 p		0.027	GPC26A
						1.20E+01	4.00E+00	*(7.9)*			L	

No. of Results: 2 Comments:

38

STL Richland
rptSTLRchSample
V5.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUWP005073

FORM I

SAMPLE RESULTS

Date: 17-Jul-06

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/4/2006 12:00:00 PM
Lot-Sample No.:	J6F140287-28	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1188	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D5G2AA		Report DB ID: 9H7D5G20						
ALPHA	3.11E+00	U	3.4E+00	3.4E+00	6.05E+00	pCi/L	100%	*0.51*	7/13/06 11:40 a		0.0256	GPC10E
						2.48E+00	3.00E+00	*(1.8)*			L	
Batch: 6170211	RICHRC5014			Work Order: H7D5G1AC		Report DB ID: 9H7D5G10						
BETA	4.10E+00	U	1.2E+01	1.2E+01	2.56E+01	pCi/L	100%	*0.16*	7/11/06 02:11 p		0.023	GPC26C
						1.21E+01	4.00E+00	*0.7*			L	

No. of Results: 2 Comments:

39

STL Richland
rptSTLRchSample
V8.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NDW 005074

FORM II

Date: 17-Jul-06

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 11:53:00 AM
Lot-Sample No.:	J6F140287-1	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1159 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order: H7D3L1AD		Report DB ID: H7D3L1DR			Orig Sa DB ID: 9H7D3L10			
ALPHA	3.10E+00	U	2.4E+00	2.5E+00	3.49E+00	pCi/L	100%	0.89	7/12/06 10:30 a		0.0789	GPC10D
	3.03E+00	U	RER2 0.0			3.00E+00		(2.5)			L	

No. of Results: 1 Comments:

40

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 17-Jul-06

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/1/2006 11:22:00 AM
Lot-Sample No.:	J6F140287-2	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1160 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170199	RICHRC5014			Work Order: H7D3P2AD		Report DB ID: H7D3P2DR			Orig Sa DB ID: 9H7D3P20			
BETA	4.79E+00		2.0E+00	2.1E+00	3.51E+00	pCi/L	100%	(1.4)	7/12/06 07:36 p		0.1037	GPC32C
	4.09E+00		RER2 0.5			4.00E+00		(4.5)			L	

No. of Results: 1 Comments:

41

STL Richland RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchDupV4.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
5 A97
NUV005076

FORM II

Date: 17-Jul-06

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 2:34:00 PM
Lot-Sample No.:	J6F140287-15	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1175 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170196	RICHRC5014			Work Order: H7D4J2AD		Report DB ID: H7D4J2DR			Orig Sa DB ID: 9H7D4J20			
ALPHA	7.87E-01	U	9.7E-01	9.8E-01	1.80E+00	pCi/L	100%	0.44	7/12/06 07:12 p		0.064	GPC10B
	5.55E-01	U	RER2 0.3			3.00E+00		(1.6)			L	

No. of Results: 1 Comments:

42

STL Richland
rptSTLRchDupV4.1
0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NTW-005077

FORM II

Date: 17-Jul-06

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	31904	Collection Date:	6/3/2006 11:47:00 AM
Lot-Sample No.:	J6F140287-16	Report No. :	32675	Received Date:	6/12/2006 10:00:00 AM
Client Sample ID:	1176 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170211	RICHRC5014			Work Order: H7D4L1AD		Report DB ID: H7D4L1DR			Orig Sa DB ID: 9H7D4L10			
BETA	2.10E+00	U	3.8E+00	3.8E+00	8.18E+00	pCi/L	100%	0.26	7/11/06 12:19 p		0.0733	GPC26D
	3.51E+00	U	RER2 0.5			4.00E+00		(1.1)			L	

No. of Results: 1 Comments:

43

STL Richland
ptSTLRchDupV4.1
0 A97

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 17-Jul-06

Lab Name: STL Richland

Matrix: WATER

SDG: 31904

Report No. : 32675

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7NX41AA		Report DB ID:	H7NX41AB				
ALPHA	1.63E-01	U	4.1E-01	4.1E-01	9.99E-01	pCi/L	100%	0.16	7/12/06 01:47 p		0.1994	GPC10C
					3.42E-01	3.00E+00		0.79			L	
Batch: 6170196	RICHRC5014			Work Order:	H7N0A1AA		Report DB ID:	H7N0A1AB				
ALPHA	1.36E-01	U	4.7E-01	4.7E-01	1.19E+00	pCi/L	100%	0.11	7/12/06 10:30 a		0.2	GPC10A
					4.43E-01	3.00E+00		0.58			L	
Batch: 6170199	RICHRC5014			Work Order:	H7N0G1AA		Report DB ID:	H7N0G1AB				
BETA	2.86E-01	U	1.2E+00	1.2E+00	2.57E+00	pCi/L	100%	0.11	7/12/06 10:37 a		0.2003	GPC32B
					1.22E+00	4.00E+00		0.49			L	
Batch: 6170211	RICHRC5014			Work Order:	H7N0P1AA		Report DB ID:	H7N0P1AB				
BETA	8.47E-02	U	1.3E+00	1.3E+00	2.80E+00	pCi/L	100%	0.03	7/11/06 02:11 p		0.1993	GPC26D
					1.33E+00	4.00E+00		0.13			L	

No. of Results: 4 Comments:

STL Richland
rptSTLRchBlank
6.15.0 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOVL 005079

FORM II

Date: 17-Jul-06

LCS RESULTS

Lab Name: STL Richland

Matrix: WATER

SDG: 31904

Report No. : 32675

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 6170194	RICHRC5014			Work Order:	H7NX41AC		Report DB ID:	H7NX41CS					
ALPHA	2.15E+01		3.1E+00	5.2E+00	9.94E-01	pCi/L	100%	2.32E+01	7.29E-01	93%	7/12/06 01:47 p	0.1998	GPC10D
							Rec Limits:	70	130	-0.1		L	
Batch: 6170196	RICHRC5014			Work Order:	H7N0A1AC		Report DB ID:	H7N0A1CS					
ALPHA	1.88E+01		2.9E+00	4.8E+00	1.07E+00	pCi/L	100%	2.30E+01	7.23E-01	82%	7/12/06 10:30 a	0.2009	GPC10B
							Rec Limits:	70	130	-0.2		L	
Batch: 6170199	RICHRC5014			Work Order:	H7N0G1AC		Report DB ID:	H7N0G1CS					
BETA	2.12E+01		2.4E+00	4.3E+00	2.58E+00	pCi/L	100%	2.26E+01	1.81E-01	94%	7/12/06 10:37 a	0.2003	GPC32C
							Rec Limits:	70	130	-0.1		L	
Batch: 6170211	RICHRC5014			Work Order:	H7N0P1AC		Report DB ID:	H7N0P1CS					
BETA	1.79E+01		2.3E+00	3.2E+00	2.71E+00	pCi/L	100%	2.28E+01	1.83E-01	79%	7/11/06 02:11 p	0.2	GPC27A
							Rec Limits:	70	130	-0.2		L	

No. of Results: 4 Comments:

STL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.

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V4.15.0 A97

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IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: IAS EnviroChem
Address: 3314 Pole Line Road
City Pocatello State: ID Zip: 83201
Phone: 208-237-3300 P.O. #

Special INSTRUCTIONS

3 Boxes with samples Chain of Custody 1 of 2

Samples sent for Wayne Ericson with Engineers Inc.

Analyses Requested

Comments

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Desciption	Date/Time Collected
10606-1159	H7D3L	06/01/06 11:53
10606-1160	H7D3P	06/01/06 11:22
10606-1161	H7D3R	06/01/06 14:53
10606-1162	H7D3W	06/01/06 9:09
10606-1163	H7D31	06/01/06 17:25
10606-1164	H7D32	06/01/06 16:47
10606-1165	H7D33	06/01/06 16:20
10606-1166	H7D34	06/01/06 12:43
10606-1167	H7D35	06/01/06 13:28

RELINQUISHED BY

Signature: Brekelle Deeg
Printed Name: Brekelle Deeg
Date/Time: 06/08/06

RECEIVED BY

Signature: S. Welch
Printed Name: S. WELCH
Date/Time: 6-12-06 10:00

Lab Use Only

Received Intact?	YES	NO
Labels and Chain Agree?	YES	NO
Container Sealed?	YES	NO

NUW 005081

56

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: IAS EnviroChem

Address: 3314 Pole Line Road

City Pocatello State: ID Zip: 83201

Phone: 208-237-3300 P.O. #

Special INSTRUCTIONS

3 Boxes with samples

Chain of Custody 2 of 2

Samples sent for Wayne Ericson with Engineers Inc.

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Desciption	Date/Time Collected		Analyses Requested	Comments
10606-1169	H7D36	06/02/06	12:00		
10606-1170	H7D39	06/02/06	12:00		
10606-1171	H7D4E	06/02/06	14:35		
10606-1172	H7D4F	06/03/06	11:00		
10606-1174	H7D4G	06/03/06	9:17		
10606-1175	H7D4J	06/03/06	14:34		
10606-1176	H7D4L	06/03/06	11:47		
10606-1177	H7D4M	06/03/06	12:50		
10606-1178	H7D4Q	06/03/06	18:50		
10606-1179	H7D4T	06/03/06	18:30		
10606-1180	H7D4X	06/03/06	17:16		
10606-1181	H7D42	06/03/06	16:40		
10606-1182	H7D44	06/03/06	15:13		
10606-1183	H7D46	06/03/06	9:55		
10606-1184	H7D47	06/03/06	16:08		
10606-1185	H7D49	06/03/06	13:40		
10606-1186	H7D5C	06/04/06	10:00		
10606-1187	H7D5E	06/04/06	10:46		
10606-1188	H7D5G	06/04/06	12:00		

RELINQUISHED BY

Signature: Brekelle Deeg

Printed Name: Brekelle Deeg

Date/Time: 06/08/06

RECEIVED BY

Signature: S. Welch

Printed Name: S. Welch

Date/Time: 06·12·06 10:00

Lab Use Only

Received Intact?	YES	NO
Labels and Chain Agree?	YES	NO
Container Sealed?	YES	NO

NHW 000082

GROUND WATER ASSESSMENT REPORT
Fall 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0604P

March 2007

GROUND WATER ASSESSMENT REPORT
Fall 2006 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0604P

March 2007

ENGINEERS INC

March 27, 2007

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations - Agrium
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Fall 2006 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0604P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Fall 2006 assessment activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO).

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

Wayne A. Ericson, P.E. 3/27/07
Engineers Inc.

Cc: Alan Skinner
Attachments

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com
Our vision is to be the leading professional team, serving our communities with quality and integrity.

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REPORT

1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2**.

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, June 2006 and December 2006. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-10, MW05-1 through 5, MWA and MWB);
- collection of ground water samples from 18 monitoring wells, four on-site production wells, three offsite production wells (Simplot wells JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);
- collection of quality assurance samples, including duplicate samples and an equipment blank;
- submittal of the ground water samples to IAS-Envirochem, Inc., and Severn Trent Laboratories, Inc. (STL) for laboratory analysis of the parameters listed in the approved GWMP; and,
- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of the laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1
Summary of Assessment Activities and Completion Dates

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	2003 – 2005	June 2006	Dec 2006
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--	
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--	
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--	
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--	
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X	X

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2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-10, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2,** and the locations of the wells are shown on **Figure 3**. These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data
Conda Phosphate Operations
Spring 2006

Well ID	Data Collection Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Est. Ground Water Elevation (feet)
A-1	Dec. 2006	6,221.7	31	6190.7
A-2	Dec. 2006	6,156.8	12	6144.8
A-3	Dec. 2006	6,149.8	87	6062.8
A-4	Dec. 2006	6,149.8	38	6111.5
A-5	Dec. 2006	6,150.4	83.5	6066.9
A-6	Dec. 2006	6,150.2	96.0	6054.2
A-7	Dec. 2006	6150.5	92.0	6058.5
A-8	Dec. 2006	6,149.0	114.0	6035.0
A-9A	Dec. 2006	6,146.3	110.0	6036.3
A-10	Dec. 2006	6,124.3	136	5988.3
A-2A	Dec. 2006	6,161.0*	10.0	6151.0
MWA	Dec. 2006	6,155.75	54.0	6101.8
MWB	Dec. 2006	6,162.53	60.8	6101.7
MW05-1	Dec. 2006	6160 *	110.8	6049.2
MW05-2	Dec. 2006	6160*	13.0	6147
MW05-3	Dec. 2006	6152*	47.5	6104.5
MW05-4	Dec. 2006	6174*	171.0	6003
MW05-05	Dec. 2006	6178*	175.8	6002.2

*Estimated from topographic map

2.2 Ground Water Sampling

In December 2006, ground water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Aquatech LLC for Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; two plant site monitoring wells
- Five new monitoring wells associated with the Phase I gypsum stack expansion
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well, located at the Arr-Maz Products, Inc. facility; and,
- The domestic wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3** on page 9.

Table 3
Summary of Field Parameter Readings
December 2006

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	7.5	428	7.6
A-2	7.63	661	6.4
A-3	6.29	1173	8.0
A-4	6.03	1996	6.6
A-5	7.00	1104	8.6
A-6	6.21`	3110	8.8
A-7	6.25	3910	13.1
A-8	6.24	4080	11.8
A-9A	6.33	2780	8.7
A-10	7.12	852	8.8
A-2A	7.33	680	7.2
*NW-1	N/A	N/A	N/A
NW-5	7.03	875	7.9
NW-7	7.81	614	8.3
NW-8	7.5	411	12.3
NW-9	5.21	1021	9.5
NW-10	7.83	789	9.2
*MT Fuel	N/A	N/A	N/A
JRS 10	6.41	1297	9.2
JRS 11	7.41	467	8.4
ARR-MAZ	7.39	820	9.9
LOWRY	7.5	634	7.9
TORGESEN	7.4	882	6.5
MWA	5.56	2890	9.7
MWB	5.21	1441	11.1
JRS-8	6.26	1107	8.5
MW05-1	7.60	643	7.5
MW05-2	7.33	688	7.2
MW05-3	7.54	774	6.4
MW05-4	7.47	683	7.7
MW05-5	6.90	751	7.2

Notes: 1) µS/cm = microSiemens per centimeter; °C = degrees Celsius
* well not sampled; pump not working

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were operating in an "on demand" mode. Prior to sample collection, sampling ports or valves in the piping on the downstream side of each well pump were opened to remove stagnant water from

the fitting. At each location, a minimum of 15 to 20 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.03	mg/L
Ammonia (Total)	350.3	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.7	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	325.2	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.8	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	353.2	1	mg/L
Nitrogen (Total) and TKN	351.4	0.5	mg/L
Orthophosphate	365.1	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.1	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for December 2006 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated upward as compared to June 2006. Water levels in wells A-2 and A-2A probably reflecting the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through December 2006 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevations June 2006 (ft. NGVD)	Ground Water Elevations Dec. 2006 (ft. NGVD)	Ground Water Elevation Difference from 6/06 – 12/06 (feet)
A-1	6189.0	6190.7	+1.7
A-2	6144.9	6144.8	-0.1
A-3	6060.4	6062.8	+2.4
A-4	6111.5	6111.5	0
A-5	6067.0	6066.9	-0.1
A-6	6044.2	6054.2	+10
A-7	6063.8	6058.5	-5.3
A-8	6037.0	6035.0	-2.0
A-9/A-9A	6039.7	6036.3	-3.4
A-10	5992.0	5988.3	-3.7
A-2A	6148.4	6151.0	+2.6

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results, along with a comparison of those results with the referenced water quality standards, is provided in a table contained in **Appendix C**. As shown in the table, the individual parameter concentrations that exceed the ground water quality standards are highlighted in bold print. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-3, A-4, A-6, A-7, A-8, A-9A, A-10, JRS-8 and JRS-10) reveal levels of TDS above the state standards. Production wells NW-5, NW-7, NW-9, NW-10 and JRS-10 also revealed TDS levels above 500 mg/l.

Maps of TDS and ammonia concentrations for December 2006 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed variable water levels as compared to sampling intervals in June 2006. Wells A-3, A-6, A-7, and A-8 again had water in them after several sampling periods of being dry, and were sampled.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient and plant monitor wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in up-gradient wells (wells A-1, NW-7, NW-8 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the June 2006 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Production well NW-9, and plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous and aluminum, as compared to the up gradient background wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the up-gradient wells) collected from the monitoring wells west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The newly installed monitoring wells around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

9) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

5.0 REFERENCES

BCI Engineers and Scientists, Inc., August 1999. "Ground Water Monitoring Plan, Nu-West Industries (dba Agrium U.S., Inc., Conda Phosphate Operations)".

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TABLES 7-11

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TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	270	222	284	292	208	270	294	278	252
A-2	370	378	416	430	436	412	388	N.S.	N.S.
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.
A-4	455	546	758	644	740	1,074	998	1,002	1,186
A-5	740	552	554	622	646	708	760	824	790
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622
NW-7	470	542	542	498	452	560	562	568	536
NW-8	245	232	328	304	290	322	304	344	308
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548
JRS-11	N.S.	1,350	328	398	342	398	292	370	356
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804
Lowry	N.S.	N.S.	340	422	356	460	290	440	358
Torgesen	645	590	544	588	552	1,494	672	722	762
JRS 8						Wells First Sampled in June 2005			
MW A									
MW B									

NOTE: N.S.= Not sampled

Table 7 Page 2 of 2
TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Total Dissolved Solids Concentrations (mg/L)					
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
A-1	256	266	298	278	264.0	280
A-2	N.S.	390	N.S.	432	436.0	426
A-3	N.S.	N.S.	N.S.	N.S.	930.0	822
A-4	1,564	1,810	1,880	1,844	2,238.0	1,880
A-5	730	770	780	800	908.0	890
A-6	N.S.	N.S.	N.S.	N.S.	2,234.0	2,368
A-7	N.S.	N.S.	N.S.	N.S.	2,728.0	2,954
A-8	N.S.	N.S.	N.S.	N.S.	3,160.0	2,962
A-9/A-9A	1,990	1,764	1,774	1,602	1,858.0	2,170
A-10	682	596	650	660	672.0	674
MF Well	N.S.	1,078	1,138	1,080	N.S.	N.S.
NW-1	1,486	1,664	1,102	1,506	N.S.	N.S.
NW-5	2,130	1,816	2,432	914	N.S.	658
NW-7	554	554	472	514	556.0	596
NW-8	328	320	304	312	310.0	348
NW-9	N.S.	2,882	1,970	1,526	1,538.0	1,606
NW-10	686	742	652	670	660.0	616
JRS-10	1,458	1,534	1,274	1,256	1,366.0	1,510
JRS-11	374	402	374	386	396.0	374
Arr-Maz	572	682	656	732	728.0	714
Lowry	418	404	430	404	460.0	412
Torgesen	812	744	786	816	936.0	916
JRS 8			1,256	1,166	1,488.0	1,202
MW A			2,860	3,360	3,282.0	2,794
MW B			3,198	3,872	1,826.0	2,304

NOTE: N.S.= Not sampled

Table 8 Page 1 of 2

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Total Nitrogen Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not sampled

Table 8 Page 2 of 2

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Total Nitrogen Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	
A-1	1.20	<0.5	<0.5	<0.5	20.1	<0.5	A-1
A-2	N.S.	3.9	N.S.	<0.5	0.7	<0.5	A-2
A-3	N.S.	N.S	N.S.	N.S.	2.3	1.9	A-3
A-4	6.00	5.6	8.5	8.5	25.0	18.9	A-4
A-5	1.40	<0.5	<0.5	<0.5	1.1	<0.5	A-5
A-6	N.S.	N.S.	N.S.	N.S.	57.0	34.9	A-6
A-7	N.S.	N.S.	N.S.	N.S.	104.0	84	A-7
A-8	N.S.	N.S.	N.S.	N.S.	86.0	73	A-8
A-9/A-9A	7.10	7.3	6.8	6.1	7.8	10.9	A-9/A-9A
A-10	8.20	8.0	7.1	7.4	7.4	7.10	A-10
MF Well	N.S.	2.7	2.3	1.0	N.S.	N.S.	MF Well
NW-1	15.20	20.1	3.5	19.3	N.S.	N.S.	NW-1
NW-5	50.70	9.7	41.4	8.9	N.S.	1.7	NW-5
NW-7	4.20	3.6	6.4	4.2	3.8	3.4	NW-7
NW-8	3.60	2.8	3.1	2.8	3.2	3.0	NW-8
NW-9	N.S.	23.3	22.9	14.8	27.7	17.00	NW-9
NW-10	<1.0	0.7	0.8	<0.5	<0.5	<0.5	NW-10
JRS-10	23.80	21.4	19.2	16.7	27.8	21.4	JRS-10
JRS-11	2.0	1.4	1.5	1.5	1.0	1.2	JRS-11
Arr-Maz	1.30	<0.5	1.0	1.0	<0.5	<0.5	Arr-Maz
Lowry	13.10	12.0	17.4	14.1	17.1	15.7	Lowry
Torgesen	35.0	33.2	38.3	39.3	52.0	39	Torgesen
JRS 8			16.0	8.1	28.9	13.6	JRS 8
MW A			122.0	84.0	237.0	178	MW A
MW B			17.8	24.2	9.9	10.50	MW B

NOTE: N.S. = Not sampled

Table 9 Page 1 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Sulfate Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	17	11	11	12	12	12	8	12	13
A-2	29	32	37	36	54	34	42	N.S.	N.S.
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.
A-4	37	40	70	47	60	212	156	135	279
A-5	104	104	119	129	133	167	172	189	193
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	844	535	666	916	125	68	947	781	550
NW-7	166	164	157	81	85	148	146	138	139
NW-8	26	43	27	27	26	28	27	36	27
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167
JRS-10	N.S.	563	554	395	576	694	553	594	592
JRS-11	N.S.	56	55	54	52	53	49	51	53
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36
Lowry	N.S.	N.S.	56	47	51	60	48	51	48
Torgesen	58	55	55	52	55	587	60	61	60
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not Sampled

Table 9 Page 2 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Sulfate Concentrations (mg/L)					
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
A-1	11	6	6	7	8.0	<5
A-2	N.S.	43	N.S.	30	39.0	35
A-3	N.S.	N.S.	N.S.	N.S.	118.0	128
A-4	426	502	490	424	600.0	406
A-5	188	194	198	205	220.0	197
A-6	N.S.	N.S.	N.S.	N.S.	516.0	716
A-7	N.S.	N.S.	N.S.	N.S.	975.0	1,103
A-8	N.S.	N.S.	N.S.	N.S.	1132.0	1,081
A-9/A-9A	623	557	470	424	582.0	722
A-10	110	107	101	84	98.0	100
MF Well	N.S.	265	269	201	N.S	N.S.
NW-1	731	610	429	436	N.S	N.S.
NW-5	804	547	920	184	N.S	168
NW-7	142	137	109	111	148.0	154
NW-8	38	25	27	18	29.0	25
NW-9	N.S.	937	824	518	647.0	603
NW-10	194	233	199	151	154.0	144
JRS-10	560	549	384	345	424.0	522
JRS-11	55	49	59	44	60.0	47
Arr-Maz	34	30	31	26	33.0	30
Lowry	53	48	67	17	61.0	59
Torgesen	60	62	68	54	72.0	71
JRS 8			464	265	556.0	455
MW A			1,545	1,546	1121.0	1,025
MW B			1,185	1,027	784.0	1,093

NOTE: N.S. = Not Sampled

Table 10 Page 1 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Sodium Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.70
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140.00
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200.00
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.00
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103.00
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.00
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.00
JRS 8									
MW A					Wells not sampled until June 2005				
MW B									

Table 10 Page 2 of 2

SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Sodium Concentrations (mg/L)					
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
A-1	5.87	6.57	6.06	6.7	6.1	6.99
A-2	N.S.	4.99	N.S.	5.1	4.6	4.72
A-3	N.S.	N.S.	N.S.	N.S.	26.9	27.97
A-4	63.00	108	102	133.0	106.0	72.8
A-5	17.80	19.0	13.7	18.3	19.5	20.25
A-6	N.S.	N.S.	N.S.	N.S.	279.0	340
A-7	N.S.	N.S.	N.S.	N.S.	569.0	640
A-8	N.S.	N.S.	N.S.	N.S.	532.0	627
A-9/A-9A	131	132	96	102.0	124.0	184
A-10	16.30	17.9	16.2	17.4	15.8	17.53
MF Well	N.S.	56.4	50.6	48.0	N.S.	N,S
NW-1	80.30	116	70	108.0	N.S.	N.S.
NW-5	277	223	300	63.0	N.S.	18.34
NW-7	12.0	11.5	12.4	11.5	12.3	13.13
NW-8	9.0	8.55	8.34	8.6	9.0	9.51
NW-9	N.S.	95.8	66.5	62.0	85.8	68.81
NW-10	12.0	12.3	13.7	12.0	10.4	11.98
JRS-10	100	92.3	72.9	86.0	73.6	100.20
JRS-11	7.0	34.1	8.4	7.3	7.7	8.16
Arr-Maz	5.75	6.37	7.00	6.5	6.4	7.39
Lowry	22.70	20.4	33.4	21.0	35.8	26.25
Torgesen	15.40	18.20	19.30	18.7	19.8	18.79
JRS 8			63.5	53.6	78.4	69.84
MW A			134.0	160.0	108.0	124
MW B			120.0	164.0	86.0	88.88

NOTE: N.S. = NOT Sampled

Table 11 Page 1 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

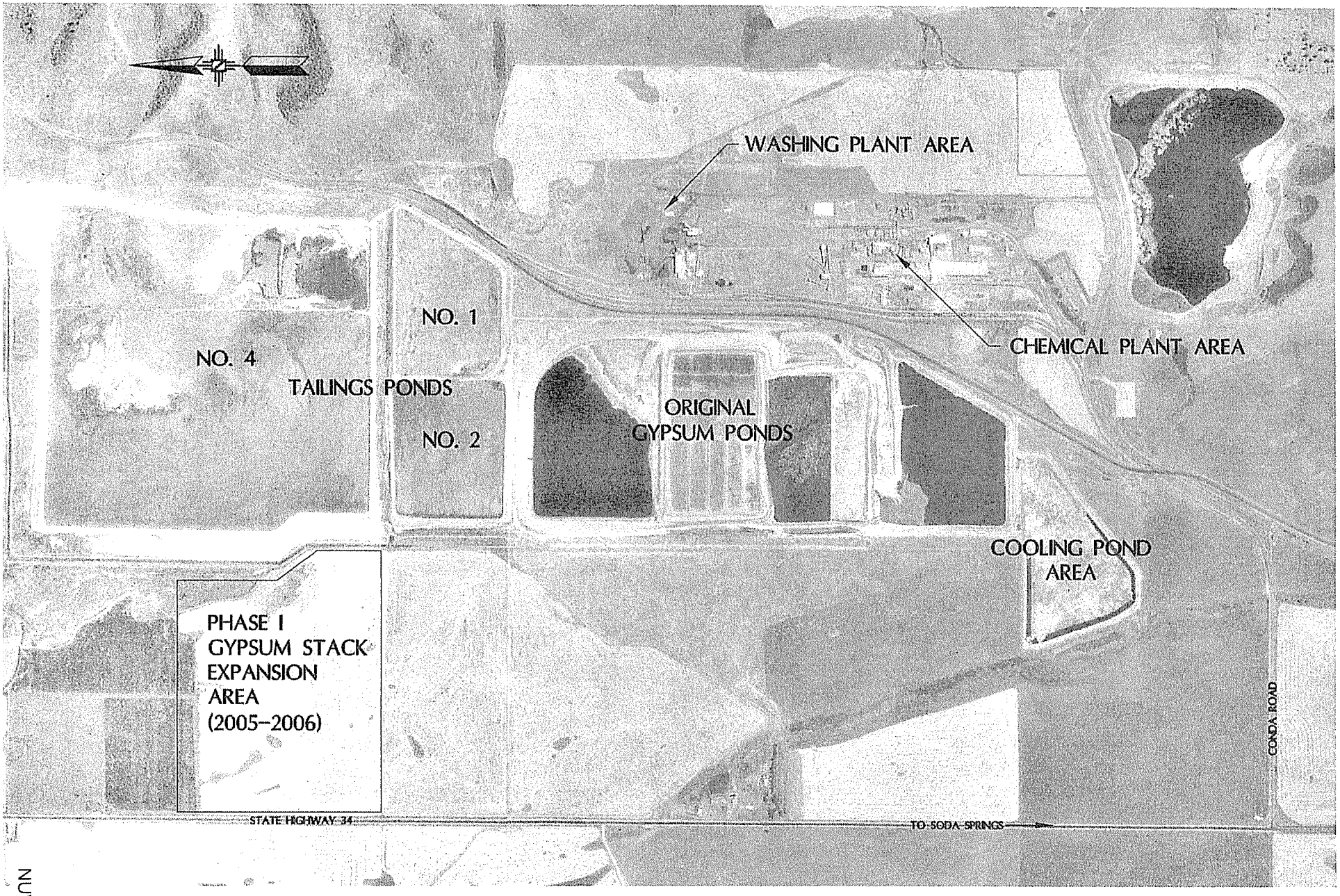
Well ID	Aluminum Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86
JRS 8					Wells not sampled until June 2005				
MW A									
MW B									

Table 11 Page 2 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH DECEMBER 2006

Well ID	Aluminum Concentrations (mg/L)					
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
A-1	<0.03	<0.03	0.4	<0.03	<0.03	<0.03
A-2	N.S.	0.14	N.S.	<0.03	<0.03	<0.00
A-3	N.S.	N.S.	N.S.	N.S.	0.05	0.06
A-4	0.31	0.22	<0.03	0.46	<0.03	<0.03
A-5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
A-6	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03
A-7	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03
A-8	N.S.	N.S.	N.S.	N.S.	0.07	0.07
A-9/A-9A	0.57	<0.03	<0.03	0.09	<0.03	<0.03
A-10	<0.03	<0.03	<0.03	0.17	<0.03	0.03
MF Well	N.S.	<0.03	<0.03	<0.03	N.S	N.S.
NW-1	1.52	<0.03	0.13	<0.03	N.S	N.S.
NW-5	<0.03	<0.03	<0.03	<0.03	N.S	<0.03
NW-7	<0.03	<0.03	<0.03	<0.03	<0.03	0.07
NW-8	<0.03	<0.03	<0.03	<0.03	<0.03	0.04
NW-9	N.S.	94.1	30.7	8.5	20.20	14.50
NW 10	<0.03	<0.03	<0.03	<0.03	<0.03	0.04
JRS-10	<0.03	0.76	0.04	<0.03	<0.03	<0.03
JRS-11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Arr-Maz	<0.03	<0.03	<0.03	<0.03	<0.03	0.04
Lowry	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Torgesen	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
JRS 8			<0.03	<0.03	<0.03	0.05
MW A			6.90	8.90	1.43	2.8
MW B			353	308	25.20	26.70

Note: N.S. = not sampled

FIGURES



DATE 09-03-02
JOB # NUW0604P
DWG. BY ONT
REVISIONS
06/04
11/04 PAS
10/05 PAS
3/07 ONT
FILE: \\ P:\ NUW0601P\ PLANS\FIG1.DWG

PROJECT
DECEMBER 2006
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

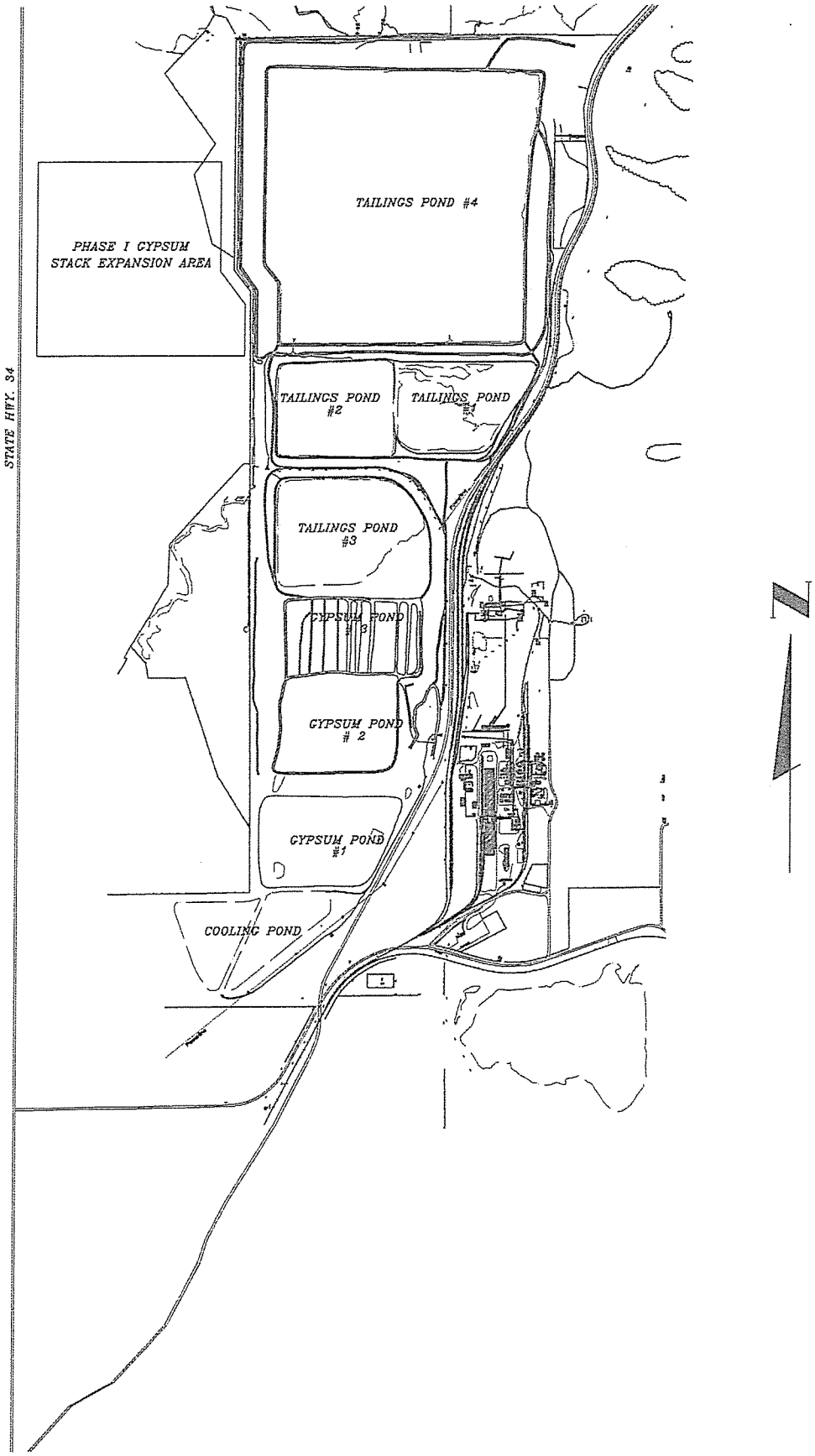
ENGINEERS INC

TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

NUW 005113



ENGINEERS INC
301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061
(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 3/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0604P

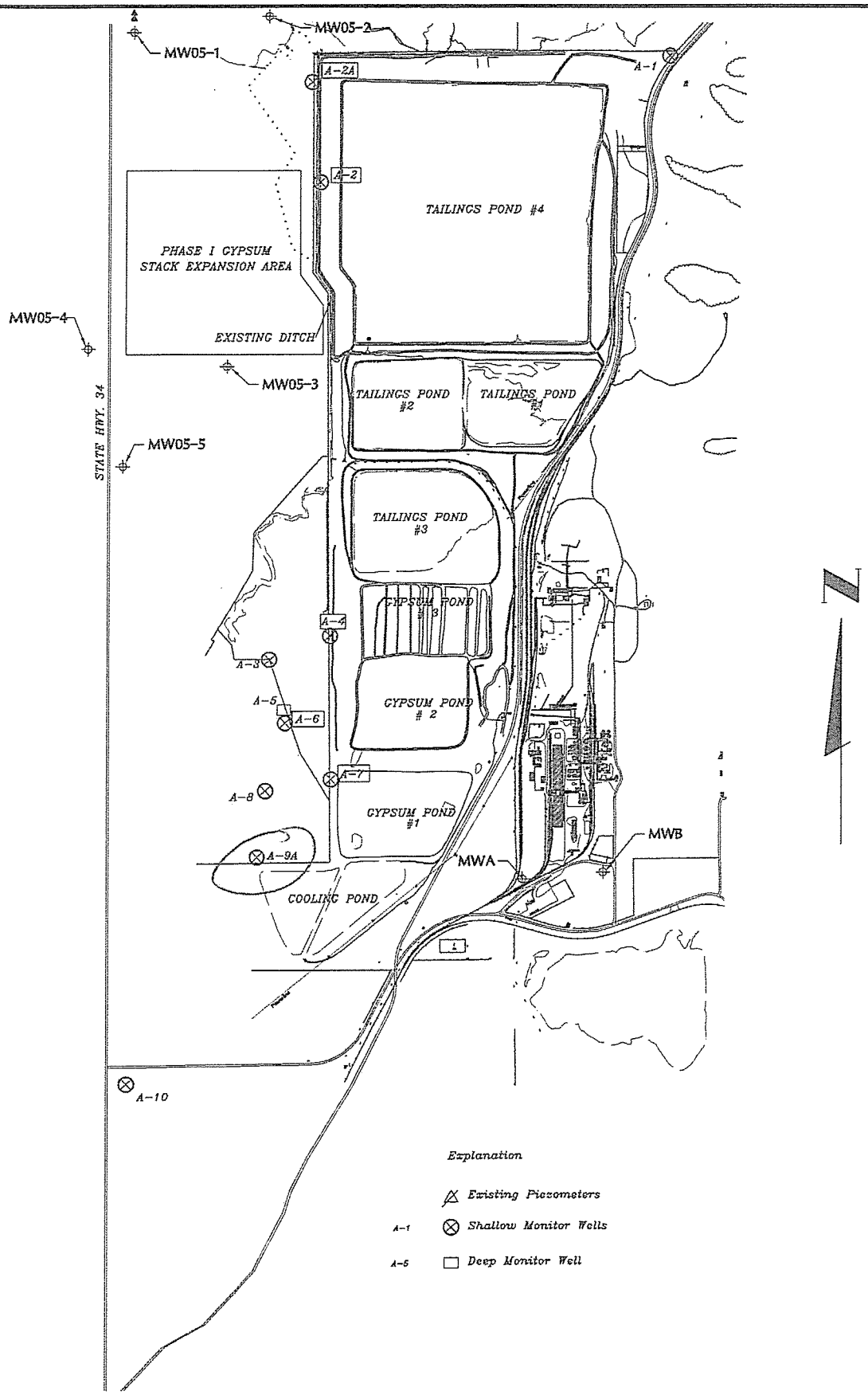


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FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
DECEMBER 2006
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 3/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0604P

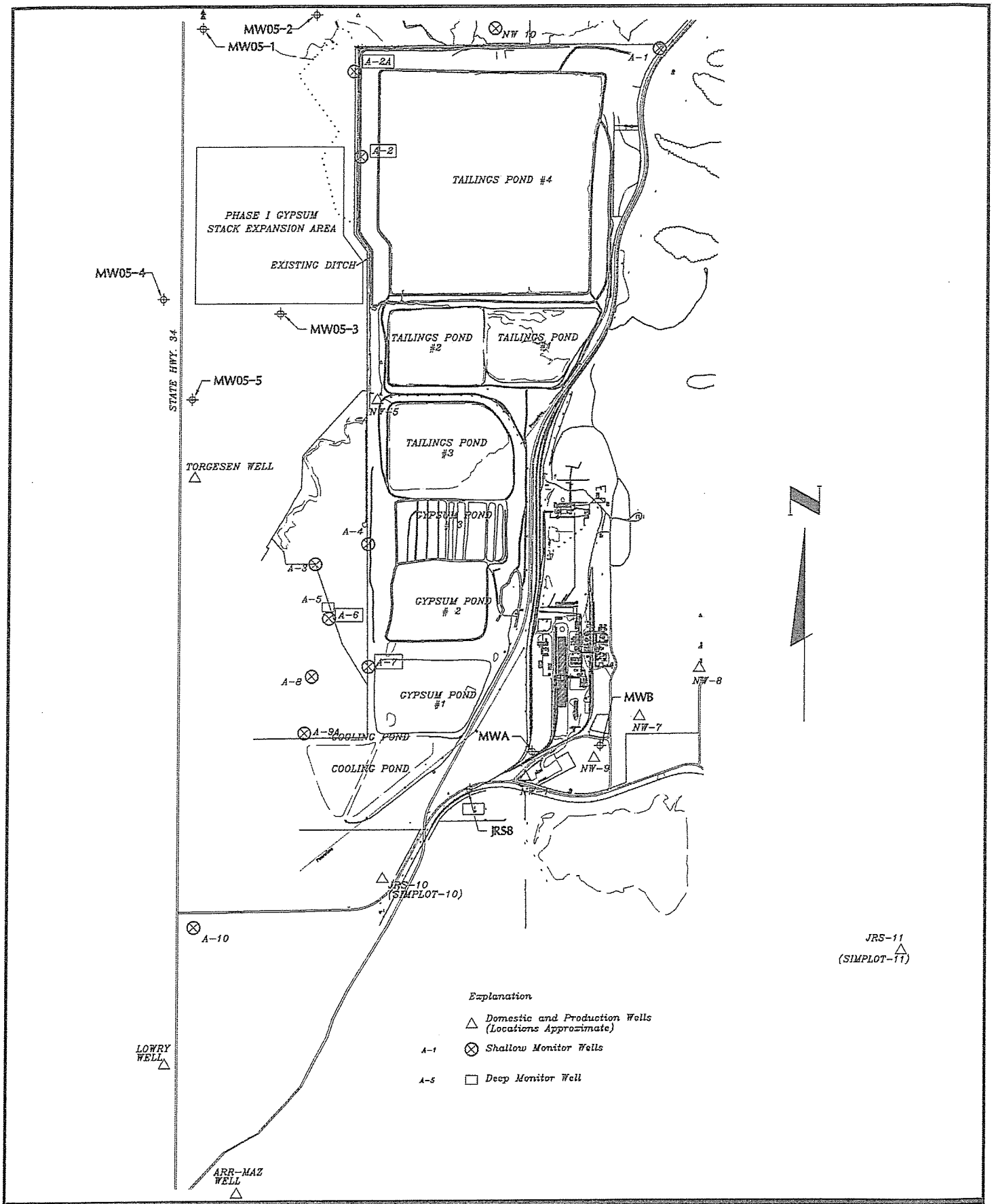

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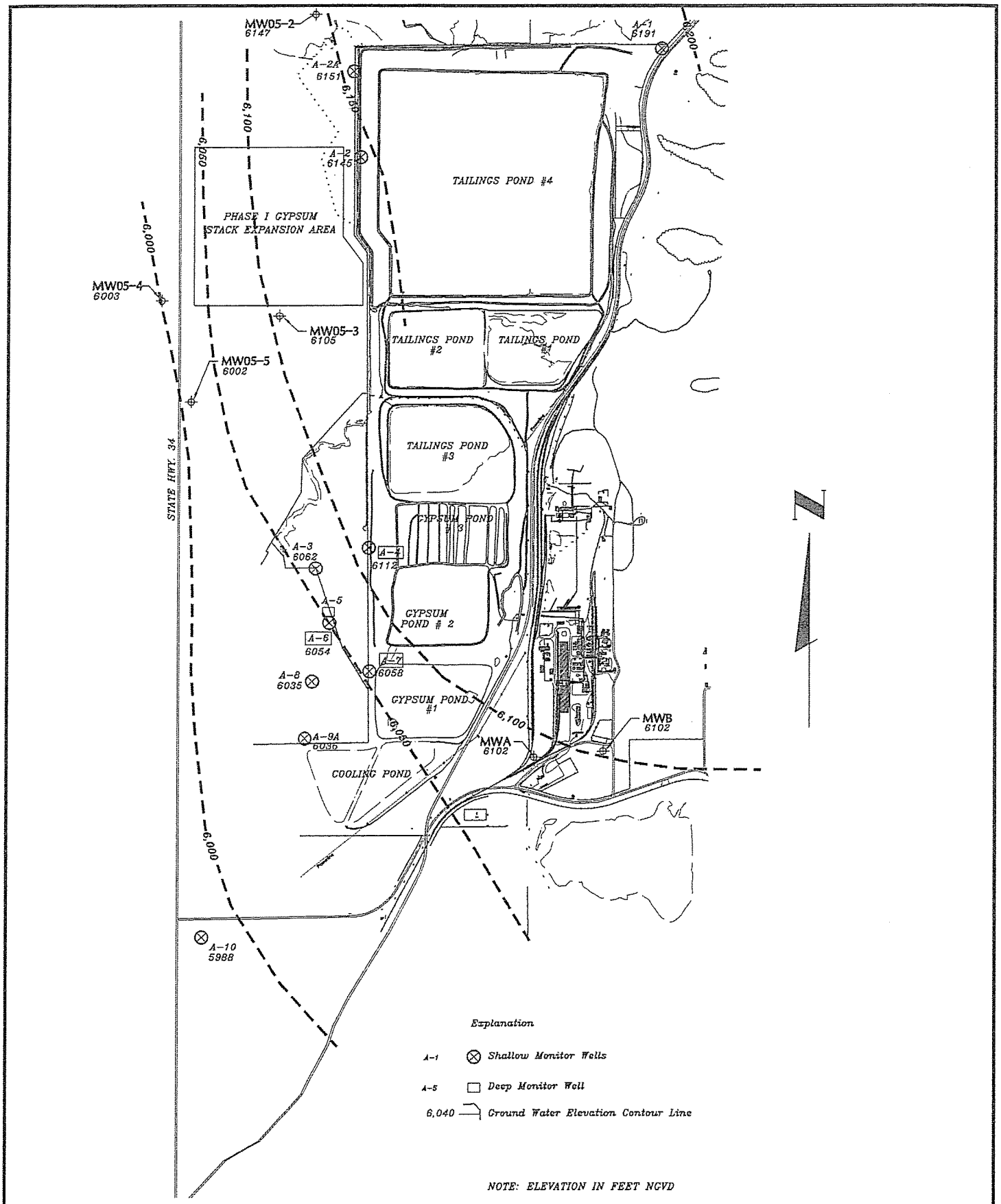
FIGURE 4
GROUND WATER SAMPLING LOCATIONS
DECEMBER 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 3/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0604P



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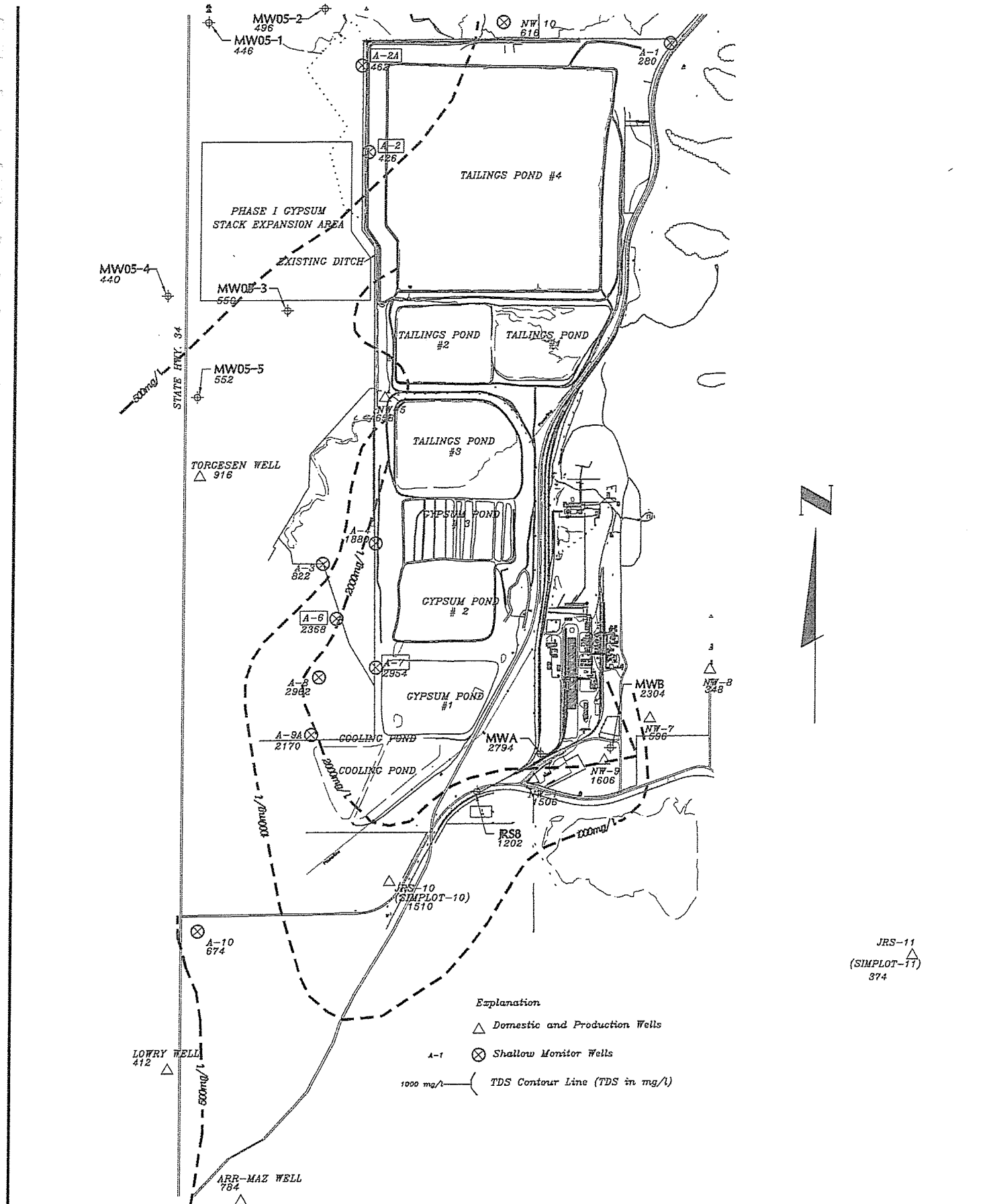
(505)538-5410 (FAX)

FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
DECEMBER 2006
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 3/07 ONT	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0604P



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(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-DECEMBER 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 3/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW060

NUW 005118

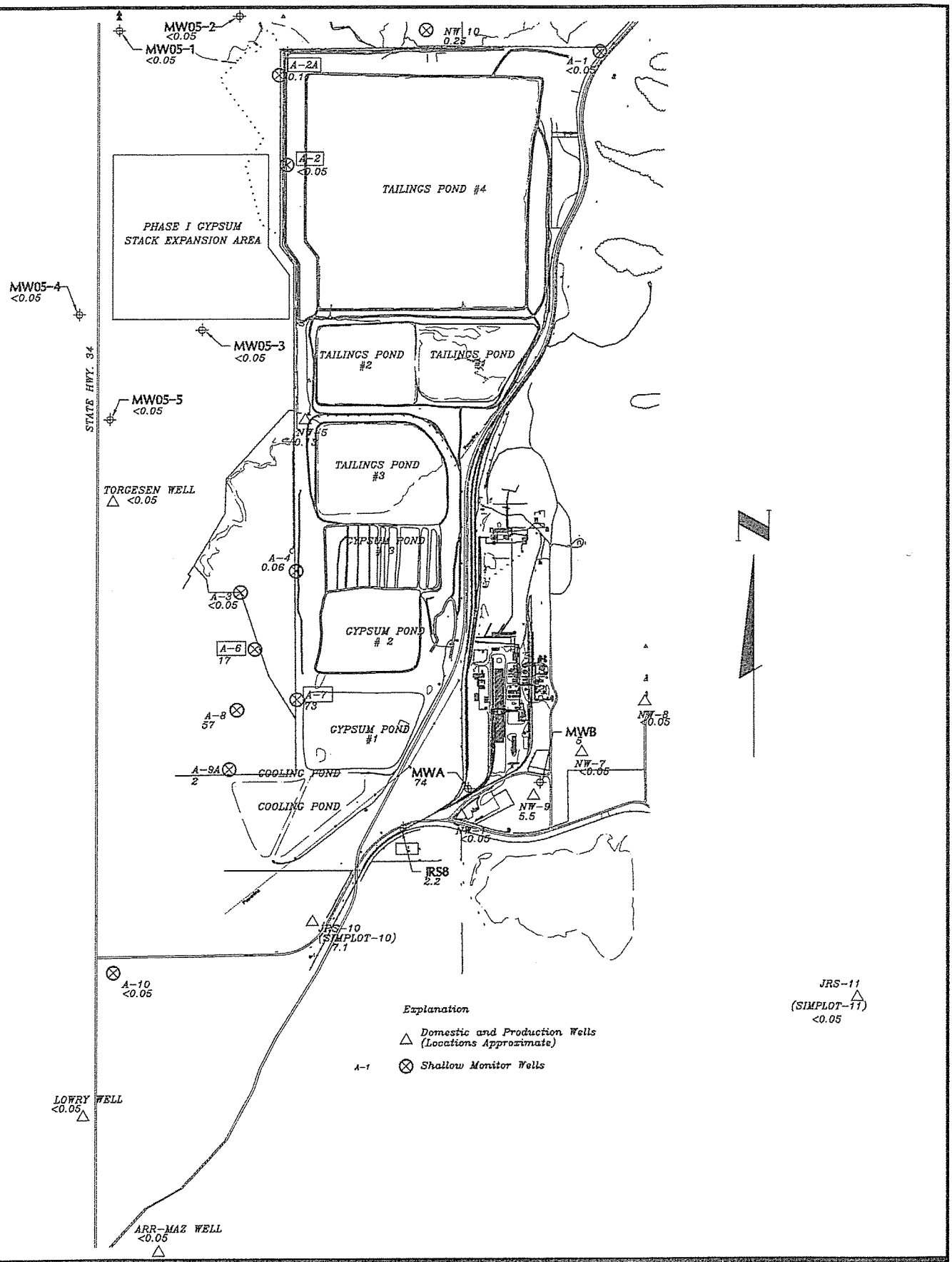

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FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS–DECEMBER 2006
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 3/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0604P

APPENDIX A

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 Cab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-1

DAY/DATE: 120306 Sun

PERSONNEL: RD TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 67

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite — Monitor Domestic Production

DEPTH TO WATER (feet): (b) 31

WATER COLUMN HEIGHT (feet) = (a) 67 - (b) 31 = (h) 36

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 17.7

39.3 min

PUMPING RATE 171.9 Hz

[Volume of Container (gallons)] 5 / 11.0 [Fill time (minutes)] = 0.45 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1215	7.81	426	7.6		CLOUDY
2	1235	7.67	438	7.5		CLEAR
3	1250	7.52	443	8.0		CLEAR
4	1305	7.59	434	7.7		CLEAR
5	1320	7.51	426	8.0		CLEAR
Sample	1330	7.50	428	8.0		CLEAR

SAMPLE DESCRIPTION:

NOTES: Pump set 60 ft

Signature of Sampling Personnel: [signature] Date 120306

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2

DAY/DATE: 120206 Sat

PERSONNEL: RPTP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 30

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 12

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 12 = (h) 18

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.0

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 9.0

PUMPING RATE 745.7 Hz 2.3 m/h

[Volume of Container (gallons)] 5 / 1.25 [Fill time (minutes)] = 4 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1228	7.51	664	6.4		Clear
2	1235	7.65	670	6.4		clear
3	1239	7.62	663	6.4		clear
4	1241	7.62	663	6.4		Clear
5						
Sample	1245	7.63	661	6.4		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 20 ft

Signature of Sampling Personnel: [signature] Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2A

DAY/DATE: 120206 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 168

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 10

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 10 = (h) 158

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 25.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 77.7

PUMPING RATE 255.7 Hz 18.5 min

[Volume of Container (gallons)] 5 / 1.2 [Fill time (minutes)] = 4.2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1300	7.20	687	7.3		CLEAR
2	1304	7.24	694	7.1		Clear
3	1306	7.36	693	7.2		Clear
4	1310	7.20	691	7.2		Clear
5	1313	7.30	687	7.2		Clear
	1316	7.32	668	7.2		Clear
	1323	7.34	683	7.3		Clear
Sample	1330	7.33	680	7.2		Clear

SAMPLE DESCRIPTION: Water and ice in ditch

Pump set 50 ft

NOTES:

Signature of Sampling Personnel: RP Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120606 Lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-3

DAY/DATE: 120606 Wed

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 108

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite / Offsite / Monitor / Domestic / Production

DEPTH TO WATER (feet): (b) 87

WATER COLUMN HEIGHT (feet) = (a) 108 - (b) 87 = (h) 21

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.4

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 10.3

PUMPING RATE: 248.6 Hz

[Volume of Container (gallons)] 5 / 3 [Fill time (minutes)] = 1.7 gallons/minute 6 L min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1115	6.23	1199	7.6		muddy
2	1120	6.24	1160	7.9		cloudy
3	1125	6.35	743	8.0		Clear
4	1130	6.24	849	8.0		Clear
5						
Sample	1135	6.29	873	8.0		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 100 ft

Signature of Sampling Personnel: RP

Date 120606

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 CAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-4

DAY/DATE: 120206 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 115

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 38

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 38 = (h) 77

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 12.6

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 37.9

PUMPING RATE 257.4 Hz 9.5 min

[Volume of Container (gallons)] 5 / 1.25 [Fill time (minutes)] = 4 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1150	6.20	2160	6.1		CLEAR BUBBLES
2	1154	6.06	1770	6.4		CLEAR
3	1156	5.99	1829	6.5		SLT Cloudy
4	1159	6.02	1872	6.5		SLT Cloudy
5	1202	6.03	2360	6.6		SLT Cloudy
	1204	6.06	2030	6.6		CLEAR
Sample	1206	6.03	1996	6.6		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 48 ft

Signature of Sampling Personnel: By

Date: 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	12.06.06 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-5

DAY/DATE: 12.06.06 wed

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 213

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 83.5

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 83.5 = (h) 130.0

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 21.2

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 63.7

PUMPING RATE: 292.3 Hz

[Volume of Container (gallons)] 5 / 2 [Fill time (minutes)] = 2.5 gallons/minute 25.5

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1225	6.98	1143	8.2		Clear
2	1230	6.99	1140	8.6		Clear
3	1240	7.00	1136	8.5		Clear
4	1250	7.00	1122	8.6		Clear
5	1300	7.00	1113	8.6		Clear
	1310	7.00	1109	8.6		Clear
Sample	1320	7.00	1104	8.6		Clear

SAMPLE DESCRIPTION:

NOTES: pump set 150 ft

Signature of Sampling Personnel: [signature] Date 120606

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME 12-06-06 lab			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-6

DAY/DATE: 12-06-06

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

TOTAL WELL DEPTH (feet) (a): 119

GROUND WATER ELEVATION (feet NGVD): _____

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 96

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 96 = (h) 23

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 11.3

PUMPING RATE 270.0 Hz

[Volume of Container (gallons)] 5 / 2.5 [Fill time (minutes)] = 2 gallons/minute 5.7 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1155	6.24	3050	7.7		Slt cloudy
2	1200	6.23	3180	8.7		Clear
3	1205	6.21	3200	8.8		Clear
4	1210	6.21	3190	9.3		Clear
5						
Sample	1215	6.21	3110	8.8		Clear

SAMPLE DESCRIPTION:

NOTES: Set Pump 110

Signature of Sampling Personnel: RP Date 12-06-06

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION	
DATE/TIME	120206 LAB
CALIBRATION STANDARDS & METERS READINGS	
pH (s.u.)	4 4.01 7 7.02 10 10.08
Conductance (umhos/cm)	1413
Turbidity (NTU)	
D.O. (mg/L) @ 100% air	100%

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-7

DAY/DATE: 120206 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 121

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 92

WATER COLUMN HEIGHT (feet) = (a) 121 - (b) 92 = (h) 29

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 4.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 14.3

PUMPING RATE 278.5 Hz 5.1 min

[Volume of Container (gallons)] 5 / 1.8 [Fill time (minutes)] = 2.8 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1119	6.23	3870	13.2		Clear
2	1125	6.24	3860	13.0		Clear
3	1127	6.24	3900	12.9		
4						
5						
Sample	1130	6.25	3910	13.1		

SAMPLE DESCRIPTION: Sunny about 28 °F

NOTES: Pump set 102 ft

Signature of Sampling Personnel: RP Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120606 Lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-8

DAY/DATE: 120606 Wed

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 128

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite (Offsite circled) Monitor (Monitor circled) Domestic Production

DEPTH TO WATER (feet): (b) 114

WATER COLUMN HEIGHT (feet) = (a) 128 - (b) 114 = (h) 14

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 2.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 6.9

PUMPING RATE 275.7 Hz

[Volume of Container (gallons)] 5 / 2.25 [Fill time (minutes)] = 2.2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1040	6.22	4100	11.4		muddy
2	1045	6.25	4100	11.5		Cloudy
3	1050	6.23	4100	11.9		Slt Cloudy
4						
5						
Sample	1055	6.24	4080	11.8		Slt Cloudy

SAMPLE DESCRIPTION:

Set pump 120 ft

NOTES:

Signature of Sampling Personnel: [signature] Date 120606

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	12-06-06 Lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A9A

DAY/DATE: 12.06.06 Wed

PERSONNEL: RP - JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

WELL TYPE: Onsite (Offsite)

TOTAL WELL DEPTH (feet) (a): 151

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD): _____

DEPTH TO WATER (feet): (b) 110

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 110 = (h) 41

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 6.7

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 20.2

PUMPING RATE 320.9 Hz 8.1 min

[Volume of Container (gallons)] 5 / 2 [Fill time (minutes)] = 2.5 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	10:00	6.38	2680	8.6		CLEAR
2	10:05	6.35	2730	8.7		Clear
3	1010	6.34	2720	8.7		Clear
4	1015	6.33	2780	8.7		Clear
5						
Sample	1020	6.33	2780	8.7		Clear

SAMPLE DESCRIPTION:

Pump set 125 ft

NOTES:

Signature of Sampling Personnel: Rg Date 120606

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-10

DAY/DATE: 120306 Sun

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 199

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 136

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 136 = (h) 63

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 31.0

PUMPING RATE

[Volume of Container (gallons)] 5 / 1.25 [Fill time (minutes)] = 4 gallons/minute 7.75 gpm

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1142	7.14	842	8.6		Cloudy
2	1146	7.12	845	8.8		Slt cloudy
3	1150	7.12	846	8.8		Clear
4						
5						
Sample	1155	7.12	852	8.8		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 165 ft

Signature of Sampling Personnel: [signature] Date 120306

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406	Lab	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW A

DAY/DATE: 120406 mon

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 54

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 54 = (h) 66

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 32.5

PUMPING RATE 253.3 Hz

[Volume of Container (gallons)] 5 / 1.75 [Fill time (minutes)] = 2.9 gallons/minute 11.2 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1145	5.73	1690	6.9		Cloudy
2	1150	5.58	1983	9.6		Cloudy
3	1155	5.57	2550	9.7		SLT Cloudy
4	1200	5.58	2860	9.7		CLEAR
5						
Sample	1205	5.56	2890	9.7		Clear

SAMPLE DESCRIPTION:

pump set 80 ft

NOTES:

Signature of Sampling Personnel: [signature] Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW B

DAY/DATE: 120406 Mon

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 60.8

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 60.8 = (h) 59.2

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$(h) = 9.7

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 29.1

PUMPING RATE 238.9 Hz 13.9 min

[Volume of Container (gallons)] 5 / 2.4 [Fill time (minutes)] = 2.1 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1030	5.73	1465	10.8		MILKY-WHITE
2	1045	5.50	1501	11.0		SLT MILKY
3	1050	5.43	1484	10.9		SLT MILKY
4	1055	5.29	1465	11.1		SLT MILKY
5		5				
Sample	1100	5.21	1441	11.1		SLT MILKY

SAMPLE DESCRIPTION: Discharge very white and milky. Cleared as pumped

NOTES: Set pump 80 ft

Signature of Sampling Personnel: [signature] Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	MW05-1
DAY/DATE	120206 Sat
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	2
TOP OF CASING ELEVATIN (feet NGVD)	
TOTAL WELL DEPTH (feet) (a)	265
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME 120206 1/06

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 110.8

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 110.8 = (h) 154.2

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 75.9

PUMPING RATE 245.7 Hz

[Volume of Container (gallons)] 5 / 2.5 [Fill time (minutes)] = 2 gallons/minute 38 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1552	7.47	631	7.5		Clear
2	1607	7.45	652	7.5		Clear
3	1619	7.45	641	7.7		Clear
4	1630	7.50	651	7.6		Clear
5	1635	7.45	646	7.5		Clear
Sample	1640	7.60	643	7.5		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 130 ft

Signature of Sampling Personnel: [signature] Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 1a6		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-2

DAY/DATE: 120206 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 97

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 13

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 13 = (h) 84

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 41.3

PUMPING RATE 245.6 Hz 9.6

[Volume of Container (gallons)] 5 / 1.16 [Fill time (minutes)] = 4.3 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1405	7.39	688	7.1		Slt Cloudy
2	1410	7.27	691	7.1		clear
3	1413	7.28	695	7.1		clear
4	1414	7.26	680	7.2		clear
5						
Sample	1420	7.33	688	7.2		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 25 ft

Signature of Sampling Personnel: [signature] Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-3

DAY/DATE: 120206

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 238

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 47.5

WATER COLUMN HEIGHT (feet) = (a) 238 - (b) 47.5 = (h) 190.5

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 31.2

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 93.7

PUMPING RATE 29.8 min

[Volume of Container (gallons)] 5 / 1.58 [Fill time (minutes)] = 3.16 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1445	7.49	771	6.4		SLT Cloudy
2	1452	7.50	775	6.5		mud
3	1454	7.52	768	6.5		mud
4	1505	7.54	778	6.4		SLT CLOUDY
5	1510	7.55	771	6.4		SLT Cloudy
	1520	7.53	771	6.4		clear
Sample	1530	7.54	774	6.4		clear

SAMPLE DESCRIPTION: Pressure released when cap removed. RP

NOTES: Pump set 65 ft

Signature of Sampling Personnel: RP

Date 120206

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206	1a6	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-4

DAY/DATE: 120306 Sun

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 171 = (h) 89

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 14.6

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 43.8

PUMPING RATE 334.2 15 min

[Volume of Container (gallons)] 5 / 1.75 [Fill time (minutes)] = 2.9 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1400	7.58	693	7.5		muddy
2	1407	7.56	693	7.6		cloudy
3	1411	7.52	694	7.7		Slt Cloudy
4	1419	7.49	688	7.7		Clear
5						
Sample	1430	7.47	683	7.7		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 200ft

Signature of Sampling Personnel: RP Date 120306

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120606 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-5

DAY/DATE: 120606 WED

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1400	7.04	872	7.9		RUSTY
2	1405	7.03	870	7.9		CLEAR
3	1410	7.03	874	8.0		CLEAR
4						
5						
Sample	1415	7.03	875	7.9		CLEAR

SAMPLE DESCRIPTION:

pump running

NOTES:

Signature of Sampling Personnel: [signature] Date 120606

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-5

DAY/DATE: 120306 Sun

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 175.8

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 175.8 = (h) 84.2

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 41.4

PUMPING RATE 345.1 Hz 12.5 gal/min

[Volume of Container (gallons)] 5 / 1.5 [Fill time (minutes)] = 3.3 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1056	6.94	694	7.1		Clear
2	1100	6.87	769	7.2		clear
3	1109	6.90	757	7.1		clear
4						
5						
Sample	1115	6.90	751	7.2		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 198ft

Signature of Sampling Personnel: [signature] Date 120306

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-7

DAY/DATE: 120406 MON

PERSONNEL:

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$(h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 5 / 2.5 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1315	7.18	621	8.2		Clear
2	1320	7.33	620	8.0		Clear
3	1325	7.55	617	8.3		Clear
4	1330	7.58	609	8.3		Clear
5						
Sample	1335	7.81	614	8.3		Clear

SAMPLE DESCRIPTION:

52 psi WATER Depth 41.3 ft

NOTES:

Signature of Sampling Personnel: [signature] Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-8

DAY/DATE: 120406 MON

PERSONNEL: RP JB

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

EQUIPMENT CALIBRATION

DATE/TIME: 120406 LAB

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1625	7.04	411	12.0		Clear
2	1630	7.06	421	12.2		Clear
3	1635	7.25	409	12.4		Clear
4						
5						
Sample	1640	7.50	411	12.3		Clear

SAMPLE DESCRIPTION:

31.8 psi WATER LEVEL 1 ft

NOTES:

Signature of Sampling Personnel: Rp

Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME 120406 LAB			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-9

DAY/DATE: 120406 MON

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 20

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1110	5.23	1150	9.2		Clear
2	1115	5.11	1132	9.4		Clear
3	1120	5.20	1087	9.4		Clear
4	1125	5.16	1056	9.5		Clear
5						
Sample	1130	5.21	1021	9.5		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION

DATE/TIME 120406 LAB

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID NW 10

DAY/DATE 120406 mon

PERSONNEL RP JB

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) ± 160

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0920	7.80	808	8.3		CLEAR
2	09:30	7.82	802	8.2		CLEAR
3	09:35	7.82	800	8.1		Clear
4	09:40	7.84	791	8.2		Clear
5		—				
Sample	0945	7.83	789	8.2		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: TRS-8

DAY/DATE: 120406 Mon

PERSONNEL: ZP JB

WELL DIAMETER (inches) (d): 10-12"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 67.5

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE: 233.2 Hz

[Volume of Container (gallons)] 5 / 2.5 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1540	6.60	1018	8.2		CLEAR
2	1545	6.31	1068	8.4		Clear
3	1550	6.31	1080	8.5		Clear
4	1555	6.29	1098	8.4		Clear
5	1600	6.27	1103	8.5		Clear
Sample	1605	6.26	1107	8.5		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS - 10

DAY/DATE: 120406 mon

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 5 / 0.9 [Fill time (minutes)] = 5.6 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	14:30	6.67	1207	8.5		clear
2	14:35	6.41	1270	9.2		clear
3	14:40	6.42	1293	9.2		clear
4						
5						
Sample	14:45	6.41	1297	9.2		clear

SAMPLE DESCRIPTION: Pump Running

NOTES:

Signature of Sampling Personnel: _____ Date _____

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 11

DAY/DATE: 120406 Mon

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$(h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 5 / 1 [Fill time (minutes)] = 5 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1400	7.59	460	8.3		Clear
2	1405	7.46	465	8.4		Clear
3	1410	7.38	464	8.4		Clear
4						
5						
Sample	1415	7.41	467	8.4		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: TORGESEN

DAY/DATE: 120406 MON

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite (circled: Offsite)

Monitor Domestic (circled: Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 5 / 0.3 [Fill time (minutes)] = 16.7 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1655	7.44	878	6.2		Clear
2	1700	7.41	879	6.4		Clear
3	1705	7.47	879	6.5		Clear
4						
5						
Sample	1710	7.40	882	6.5		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP

Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	12 06 06 Lab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Lowery

DAY/DATE: 12 06 06

PERSONNEL: RP JB

WELL DIAMETER (inches) (d): _____

TOP OF CASING ELEVATIN (feet NGVD): _____

TOTAL WELL DEPTH (feet) (a): _____

GROUND WATER ELEVATION (feet NGVD): _____

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1455	7.64	651	7.3		Clear
2	1500	7.51	632	7.9		Clear
3						
4						
5						
Sample	1505	7.50	634	7.9		Clear

SAMPLE DESCRIPTION:

NOTES: Well running

Signature of Sampling Personnel: Ryan Date 12 06 06

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120406 LAB		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Armaz

DAY/DATE: 120406 MON

PERSONNEL: RP JB

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 5 / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1502	7.13	828	9.7		Clear
2	1505	7.43	832	9.7		Clear
3	1510	7.22	825	9.9		Clear
4						
5						
Sample	1515	7.39	820	9.9		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP

Date 120406

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206	1/26	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Equip Blank

DAY/DATE: 120806 Sun

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$(h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	1500					

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 120306

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	120206 1ab		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Dwd

DAY/DATE: 120306 Sun

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 175.8

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 175.8 = (h) 84.2

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 41.4

PUMPING RATE 345.1 Hz

[Volume of Container (gallons)] 5 / 1.5 [Fill time (minutes)] = 3.3 gallons/minute

12.5 gpm

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1056	6.94	694	7.1		Clear
2	1100	6.87	769	7.2		Clear
3	1109	6.90	757	7.1		Clear
4						
5						
Sample	1115	6.90	751	7.2		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 198ft

Signature of Sampling Personnel: RP

Date 120306

APPENDIX B

Appendix B Page 1 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through December 2006

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			11/24/1999	10/25/2000	4/19/2001	7/31/2001	11/11/2001	6/10/2002	10/28/2002	5/6/2003	10/28/03
A-1	6,221.71	6,155.01	6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46
A-2	6,156.75	6,126.55	6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09	
A-3	6,149.77	6,041.77	6,068.35	6,050.29	6,053.88	6,042.97		6,054.70			
A-4	6,149.83	6,034.43	6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68
A-5	6,150.42	5,937.42	6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31
A-6	6,150.18	6,031.08	6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56	
A-7	6,150.47	6,029.27	6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56
A-8	6,148.99	6,021.89	6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65		
A-9/A-9A	6,146.25	5,995.25	6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09
A-10	6,124.25	5,925.15							5,985.16	5,986.58	5983.11

Appendix B Page 2 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through December 2006

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Dollection Date and Water Elevation (feet NGVD)					
			5/4/2004	10/25/2004	6/29/2005	10/29/2005	Jun-06	Dec-06
A-1	6,221.71	6,155.01	6188.15	6186.81	6189.7	6190.7	6189.0	6190.7
A-2	6,156.75	6,126.55		6,134.7	6127.0	6146.0	6144.9	6144.8
A-3	6,149.77	6,041.77					6060.4	6062.8
A-4	6,149.83	6,034.43	6,063.33	6,057.48	6062.4	6062.8	6111.5	6111.5
A-5	6,150.42	5,937.42	6,033.40	6,030.12	6032.4	6029.2	6067.0	6066.9
A-6	6,150.18	6,031.08			6033.4	6031.9	6044.2	6054.2
A-7	6,150.47	6,029.27	6,029.60				6063.8	6058.5
A-8	6,148.99	6,021.89					6037.0	6035.0
A-9/A-9A	6,146.25	5,995.25	6,011.37	6,009.79	6011.4	6010.4	6039.7	6036.3
A-10	6,124.25	5,925.15	5,985.20	5,982.45	5988.3	5983.3	5992.0	5988.3

APPENDIX C

APPENDIX C

Date Submitted: 12/5/06 & 12/7/06
Date Reported: 12/27/2006

Date Submitted: 12/5/2006
Date Reported: 12/27/2006

11206-4876	11206-4877	11206-4878	11206-4928	11206-4870	11206-4871	11206-4872	11206-4873	11206-4874	11206-4841	11206-4842
JRS11	TORGESEN	ARMAZ	NW-5	NW7	NW8	NW9	NW10	JRS8	DUP	A-1
2/4/06 14:15	12/4/06 17:10	12/4/06 15:15	12/6/06 14:15	12/4/06 13:35	12/4/06 16:40	12/4/06 11:30	12/4/06 9:45	12/4/06 16:05	12/3/06 11:15	12/3/06 13:30
<0.03	<0.03	0.04	<0.03	0.07	0.04	14.5	0.04	0.05	<0.03	<0.03
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	<0.005	<0.005
<0.05	0.09	0.11	<0.05	0.14	0.16	<0.05	0.12	0.05	0.09	0.08
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
96.9	177	231	140	122	66.7	211	130	219	115	66.9
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.120	<0.002	<0.002	<0.002	<0.002
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	0.12	<0.05	<0.05	0.40	0.11	0.06	<0.05	<0.05
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1.2	3.9	4.6	3.8	4.4	4.1	11.0	2.6	6.5	3.2	1.3
16.3	73.2	65.6	56.4	35.1	19.5	95.3	57.5	61.3	53.2	19.8
<0.01	<0.01	<0.01	0.06	0.02	<0.01	1.3	0.59	0.43	<0.01	<0.01
<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0.033	0.003	<0.003	0.008	0.020	0.003	0.012	<0.003	0.015	<0.003	<0.003
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.11	<0.03	<0.03	<0.03	<0.03
<0.05	0.06	0.51	<0.05	<0.05	<0.05	1.3	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	0.13	<0.05	<0.05	5.5	0.25	2.22	<0.05	<0.05
231	420	728	392	266	210	21	392	308	427	210
231	420	728	392	266	210	21	392	308	427	210
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
8	62	<5	5	17	9	53	5	41	<5	14
<0.5	<0.5	0.7	<0.5	<0.5	<0.5	94	<0.5	0.6	<0.5	<0.5
0.16	0.17	0.27	1.43	0.73	0.16	111	<0.05	1.39	0.91	0.13
0.14	0.15	0.25	1.3	0.68	0.15	99	<0.05	1.1	0.89	<0.05
1.2	39	<1.0	1.7	3.4	3.0	12.8	<1	13.6	2.2	<1.0
1.2	39	<0.5	1.7	3.4	3.0	17.0	<0.5	13.6	2.2	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	<0.5
8.16	18.79	7.39	18.34	13.13	9.51	68.81	11.98	69.84	16.79	6.99
503	1178	1128	877	723	439	1518	810	1380	784	418
47	71	30	168	154	25	603	144	455	57	<5
374	916	784	658	596	348	1606	616	1202	530	280
<2	<2	<2	14	<2	3	70	6	<2	2	15
7.8	7.4	7.2	6.9	7.8	7.7	5.2	7.7	6.5	7.3	7.7
3.97	0	1.2	4.4	3.7	1.8	9.5	2.1	0.8	1	0.7
2.5	7.6	5.6	7.7	3.6	4.5	12.0	3.5	8.5	3.97	0.8

NUW 005159
normal for sample type and methodology
express or implied, including warranty of

930	11206-4931	11206-4932	11206-4933	11206-4846	11206-4847	11206-4848	11206-4868	11206-4869	11206-4836	11206-4837	11206-4838	11206-48
	A-6	A-8	A-9A	A-7	A-10	Equip Blank	MWA	MWB	MW05-1	MW05-2	MW05-3	MW05-
3:20	12/6/06 12:15	12/6/06 10:55	12/6/06 10:20	12/2/06 11:30	12/3/06 11:55	12/3/06 15:00	12/4/06 12:05	12/4/06 11:00	12/2/06 16:40	12/2/06 14:20	12/2/06 15:30	12/3/06 14
3	<0.03	0.07	<0.03	<0.03	0.03	<0.03	2.77	26.7	<0.03	<0.03	<0.03	<0.03
3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5	0.016	0.017	<0.005	0.036	<0.005	<0.005	0.010	0.029	<0.005	<0.005	<0.005	<0.005
	0.22	0.19	0.14	<0.05	0.07	<0.05	<0.05	<0.05	0.08	0.08	0.10	0.06
2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
	372	254	369	140	146	<1	240	204	95	111	113	101
2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.021	0.180	<0.002	<0.002	<0.002	<0.002
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.08	<0.01	<0.01	<0.01	<0.01
5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05
5	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	4.1	<0.05	0.13	<0.05	<0.05
3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	23.7	59.2	13.0	85.7	4.4	0.6	21.7	12.9	2.4	1.9	3.1	2.6
	167	183	174	158	54.6	0.2	216	202	47.4	49.6	62.5	48.9
1	0.08	0.19	0.04	1.2	<0.01	<0.01	12.2	8.4	<0.01	0.12	0.05	<0.01
08	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000
5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.75	<0.05	<0.05	<0.05	<0.05
5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
3	0.013	0.009	<0.003	0.024	<0.003	<0.003	0.004	0.008	<0.003	<0.003	<0.003	<0.003
1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.10	2.8	<0.05	<0.05	<0.05	<0.05
5	17.0	57	2.15	73	<0.05	<0.05	74	5.1	<0.05	<0.05	<0.05	<0.05
	1162	1323	1043	1288	420	14	70	21	406	399	448	385
	1162	1323	1043	1288	420	14	70	21	406	399	448	385
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	37	56	43	33	14	<5	187	39	<5	<5	<5	5
5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.8	78	<0.5	<0.5	<0.5	<0.5
2	34	51	3.5	87	0.09	<0.05	23	147	0.05	0.05	0.07	0.07
0	29	44	3.0	91	0.07	<0.05	19	128	<0.05	<0.05	<0.05	<0.05
0	22.9	27	9.3	10.2	7.1	<1.0	132	4.5	1.6	<1.0	<1.0	1.6
5	34.9	73	10.9	84.2	7.1	<0.5	178	10.5	1.6	<0.5	<0.5	1.6
5	12	46	1.6	74	<0.5	<0.5	46	6	<0.5	<0.5	<0.5	<0.5
25	340	627	184	640	17.53	1.15	124	88.88	8.37	5.59	7.76	6.95
3	2780	3610	2440	3570	886	2.9	2960	1917	653	688	801	670
7	716	1081	722	1103	100	<5	1025	1093	24	51	65	30
0	2368	2962	2170	2954	674	20	2794	2304	446	496	550	440
	<2	35	7	24	26	<2	11	251	<2	4	3	9
1	6.6	6.6	7.0	6.9	7.4	5.3	6.1	5.0	7.3	7.8	7.5	7.5
9	0	0	8.7	0	1.3	--	1.4	3.8	1.6	0	2.8	8.9
2	18.5	55.6	19.1	76	5.7	--	15	17	5	4.7	4.6	3.5

APPENDIX D

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/4/2006
Date Reported: 12/27/2006

Tracking Number:	11206-4836	11206-4837	11206-4838	11206-4839	11206-4840
Sample Description:	MW05-1	MW05-2	MW05-3	MW05-4	MW05-5
Date & Time Collected:	12/2/06 16:40	12/2/06 14:20	12/2/06 15:30	12/3/06 14:30	12/3/06 11:15
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.08	0.08	0.10	0.08	0.09
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	95	111	113	101	115
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	0.13	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	2.4	1.9	3.1	2.6	3.2
Magnesium mg/L (0.1)	47.4	49.6	62.5	48.9	52.2
Manganese mg/L (0.01)	<0.01	0.12	0.05	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity mg/L (5)	406	399	448	385	413
Bicarbonate Alk mg/L (5)	406	399	448	385	413
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	<5	<5	<5	5	<5
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	0.05	0.05	0.07	0.07	0.90
Ortho-Phosphate:P mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	0.87
Nitrate as N mg/L (1)	1.6	<1.0	<1.0	1.6	2.2
Nitrogen Total mg/L (0.5)**	1.6	<0.5	<0.5	1.6	2.2
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	8.37	5.59	7.76	6.95	16.61
Specific Conductance uS (0.5)	653	688	801	670	785
Sulfate mg/L (5)	24	51	65	30	57
Total Dissolved Solids mg/L (2)	446	496	550	440	552
Total Suspended Solids mg/L (2)	<2	4	3	9	3
pH Units	7.3	7.8	7.5	7.5	7.1

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/4/2006
Date Reported: 12/27/2006

Tracking Number:	11206-4841	11206-4842	11206-4843	11206-4844	11206-4845
Sample Description:	DUP	A-1	A-2	A-2A	A-4
Date & Time Collected:	12/3/06 11:15	12/3/06 13:30	12/2/06 12:45	12/2/06 13:30	12/2/06 12:06
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.09	0.08	0.07	0.09	0.08
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	115	66.9	101	98.5	381
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	0.11	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	3.2	1.3	0.9	2.4	6.2
Magnesium mg/L (0.1)	53.2	19.8	44.3	48.1	158
Manganese mg/L (0.01)	<0.01	<0.01	<0.01	0.49	0.15
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	0.049
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	0.11	0.06
Alkalinity mg/L (5)	427	210	385	392	1106
Bicarbonate Alk mg/L (5)	427	210	385	392	1106
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	<5	14	<5	<5	13
Fluoride mg/L (0.5)	<0.5	<0.5	0.6	<0.5	<0.5
Phosphorus:P mg/L (0.05)	0.91	0.13	<0.05	0.14	0.31
Ortho-Phosphate:P mg/L (0.05)	0.89	<0.05	<0.05	0.13	0.29
Nitrate as N mg/L (1)	2.2	<1.0	<1.0	<1.0	18.9
Nitrogen Total mg/L (0.5)**	2.2	<0.5	<0.5	<0.5	18.9
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	16.79	6.99	4.72	6.84	72.82
Specific Conductance uS (0.5)	784	418	663	668	2190
Sulfate mg/L (5)	57	<5	35	36	406
Total Dissolved Solids mg/L (2)	530	280	426	462	1880
Total Suspended Solids mg/L (2)	2	15	<2	7	55
pH Units	7.3	7.7	7.7	7.6	7.5

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave. Suite 1
Silver City, NM 88061

Date Submitted: 12/4/06 & 12/5/06
Date Reported: 12/27/2006

Tracking Number:	11206-4846	11206-4847	11206-4848	11206-4868	11206-4869
Sample Description:	A-7	A-10	Equip Blank	MWA	MWB
Date & Time Collected:	12/2/06 11:30	12/3/06 11:55	12/3/06 15:00	12/4/06 12:05	12/4/06 11:00
Aluminum mg/L (0.03)	<0.03	0.03	<0.03	2.77	26.7
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.036	<0.005	<0.005	0.010	0.029
Barium mg/L (0.05)	<0.05	0.07	<0.05	<0.05	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	0.002
Calcium mg/L (1)	140	146	<1	240	204
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	0.021	0.180
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	0.07	0.08
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	0.07
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	4.1
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	85.7	4.4	0.6	21.7	12.9
Magnesium mg/L (0.1)	158	54.6	0.2	216	202
Manganese mg/L (0.01)	1.2	<0.01	<0.01	12.2	8.4
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	0.32	0.75
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.024	<0.003	<0.003	0.004	0.008
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	0.10	2.8
Ammonia Total mg/L (0.05)	73	<0.05	<0.05	74	5.1
Alkalinity mg/L (5)	1288	420	14	70	21
Bicarbonate Alk mg/L (5)	1288	420	14	70	21
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	33	14	<5	187	39
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	10.8	78
Phosphorus:P mg/L (0.05)	87	0.09	<0.05	23	147
Ortho-Phosphate:P mg/L (0.05)	91	0.07	<0.05	19	128
Nitrate as N mg/L (1)	10.2	7.1	<1.0	132	4.5
Nitrogen Total mg/L (0.5)**	84.2	7.1	<0.5	178	10.5
Nitrogen Total Kjeldahl mg/L (0.5)	74	<0.5	<0.5	46	6
Sodium mg/L (0.05)	640	17.53	1.15	124	88.88
Specific Conductance uS (0.5)	3570	886	2.9	2960	1917
Sulfate mg/L (5)	1103	100	<5	1025	1093
Total Dissolved Solids mg/L (2)	2954	674	20	2794	2304
Total Suspended Solids mg/L (2)	24	26	<2	11	251
pH Units	6.9	7.4	5.3	6.1	5.0

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/5/2006
Date Reported: 12/27/2006

Tracking Number:	11206-4870	11206-4871	11206-4872	11206-4873	11206-4874
Sample Description:	NW7	NW8	NW9	NW10	JRS8
Date & Time Collected:	12/4/06 13:35	12/4/06 16:40	12/4/06 11:30	12/4/06 9:45	12/4/06 16:05
Aluminum mg/L (0.03)	0.07	0.04	14.5	0.04	0.05
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	0.016	<0.005	<0.005
Barium mg/L (0.05)	0.14	0.16	<0.05	0.12	0.05
Beryllium mg/L (0.002)	<0.002	<0.002	0.002	<0.002	<0.002
Calcium mg/L (1)	122	66.7	211	130	219
Cadmium mg/L (0.002)	<0.002	<0.002	0.120	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	0.02	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	0.40	0.11	0.06
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	4.4	4.1	11.0	2.6	6.5
Magnesium mg/L (0.1)	35.1	19.5	95.3	57.5	61.3
Manganese mg/L (0.01)	0.02	<0.01	1.3	0.59	0.43
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	0.27	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.020	0.003	0.012	<0.003	0.015
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	0.11	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	1.3	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	5.5	0.25	2.22
Alkalinity mg/L (5)	266	210	21	392	308
Bicarbonate Alk mg/L (5)	266	210	21	392	308
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	17	9	53	5	41
Fluoride mg/L (0.5)	<0.5	<0.5	94	<0.5	0.6
Phosphorus:P mg/L (0.05)	0.73	0.16	111	<0.05	1.39
Ortho-Phosphate:P mg/L (0.05)	0.68	0.15	99	<0.05	1.1
Nitrate as N mg/L (1)	3.4	3.0	12.8	<1	13.6
Nitrogen Total mg/L (0.5)**	3.4	3.0	17.0	<0.5	13.6
Nitrogen Total Kieldahl mg/L (0.5)	<0.5	<0.5	4.2	<0.5	<0.5
Sodium mg/L (0.05)	13.13	9.51	68.81	11.98	69.84
Specific Conductance uS (0.5)	723	439	1518	810	1380
Sulfate mg/L (5)	154	25	603	144	455
Total Dissolved Solids mg/L (2)	596	348	1606	816	1202
Total Suspended Solids mg/L (2)	<2	3	70	6	<2
pH Units	7.8	7.7	5.2	7.7	6.5

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/5/06 & 12/7/06
Date Reported: 12/27/2006

Tracking Number:	11206-4875	11206-4876	11206-4877	11206-4878	11206-4928
Sample Description:	JRS10	JRS11	TORGESEN	ARMAZ	NW-5
Date & Time Collected:	12/4/06 14:45	12/4/06 14:15	12/4/06 17:10	12/4/06 15:15	12/6/06 14:15
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	0.04	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.008	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.16	<0.05	0.09	0.11	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	234	96.9	177	231	140
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	0.12
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	11.6	1.2	3.9	4.6	3.8
Magnesium mg/L (0.1)	96.7	16.3	73.2	85.6	56.4
Manganese mg/L (0.01)	0.11	<0.01	<0.01	<0.01	0.06
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.008	0.033	0.003	<0.003	0.008
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	0.06	0.51	<0.05
Ammonia Total mg/L (0.05)	7.1	<0.05	<0.05	<0.05	0.13
Alkalinity mg/L (5)	525	231	420	728	392
Bicarbonate Alk mg/L (5)	525	231	420	728	392
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	35	8	62	<5	5
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	0.7	<0.5
Phosphorus:P mg/L (0.05)	9.4	0.16	0.17	0.27	1.49
Ortho-Phosphate:P mg/L (0.05)	9.6	0.14	0.15	0.25	1.3
Nitrate as N mg/L (1)	16.3	1.2	39	<1.0	1.7
Nitrogen Total mg/L (0.5)**	21.4	1.2	39	<0.5	1.7
Nitrogen Total Kieldahl mg/L (0.5)	5.1	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	100.20	8.16	18.79	7.39	18.34
Specific Conductance uS (0.5)	1707	503	1178	1128	877
Sulfate mg/L (5)	522	47	71	30	168
Total Dissolved Solids mg/L (2)	1510	374	916	784	658
Total Suspended Solids mg/L (2)	<2	<2	<2	<2	14
pH Units	6.7	7.8	7.4	7.2	6.9

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/7/2006
Date Reported: 12/27/2006

Tracking Number:	11206-4929	11206-4930	11206-4931	11206-4932	11206-4933
Sample Description:	A-3	A-5	A-6	A-8	A-9A
Date & Time Collected:	12/6/06 11:35	12/6/06 13:20	12/6/06 12:15	12/6/06 10:55	12/6/06 10:20
Aluminum mg/L (0.03)	0.08	<0.03	<0.03	0.07	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	0.016	0.017	<0.005
Barium mg/L (0.05)	0.16	0.08	0.22	0.19	0.14
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	201	196	372	254	369
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	0.07	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	4.9	12.4	23.7	59.2	13.0
Magnesium mg/L (0.1)	77.9	75.0	167	183	174
Manganese mg/L (0.01)	<0.01	<0.01	0.08	0.19	0.04
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.005	<0.003	0.013	0.009	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	17.0	57	2.15
Alkalinity mg/L (5)	665	504	1162	1323	1043
Bicarbonate Alk mg/L (5)	665	504	1162	1323	1043
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	7	19	37	56	43
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	1.34	0.72	34	51	3.5
Ortho-Phosphate:P mg/L (0.05)	1.1	0.70	29	44	3.0
Nitrate as N mg/L (1)	1.9	<1.0	22.9	27	9.3
Nitrogen Total mg/L (0.5)**	1.9	<0.5	34.9	73	10.9
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	12	46	1.6
Sodium mg/L (0.05)	27.97	20.25	340	627	184
Specific Conductance uS (0.5)	1178	1143	2780	3610	2440
Sulfate mg/L (5)	128	197	716	1081	722
Total Dissolved Solids mg/L (2)	822	890	2368	2952	2170
Total Suspended Solids mg/L (2)	16	<2	<2	35	7
pH Units	6.5	7.1	6.6	6.6	7.0

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Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 12/7/2006
Date Reported: 12/27/2006

Tracking Number:	11206-4934
Sample Description:	LOWRY
Date & Time Collected:	12/6/06 15:05
Aluminum mg/L (0.03)	<0.03
Antimony mg/L (0.003)	<0.003
Arsenic mg/L (0.005)	<0.005
Barium mg/L (0.05)	<0.05
Beryllium mg/L (0.002)	<0.002
Calcium mg/L (1)	88.5
Cadmium mg/L (0.002)	<0.002
Cobalt mg/L (0.01)	<0.01
Chromium mg/L (0.05)	<0.05
Copper mg/L (0.05)	<0.05
Iron mg/L (0.05)	<0.05
Lead mg/L (0.003)	<0.003
Potassium mg/L (0.5)	4.1
Magnesium mg/L (0.1)	20.7
Manganese mg/L (0.01)	<0.01
Mercury mg/L (0.0008)	<0.0008
Nickel mg/L (0.05)	<0.05
Silver mg/L (0.05)	<0.05
Selenium mg/L (0.003)	0.003
Thallium mg/L (0.001)	<0.001
Vanadium mg/L (0.03)	<0.03
Zinc mg/L (0.05)	0.13
Ammonia Total mg/L (0.05)	<0.05
Alkalinity mg/L (5)	175
Bicarbonate Alk mg/L (5)	175
Carbonate Alkalinity mg/L (5)	<5
Chloride mg/L (5)	47
Fluoride mg/L (0.5)	<0.5
Phosphorus:P mg/L (0.05)	0.13
Ortho-Phosphate:P mg/L (0.05)	0.12
Nitrate as N mg/L (1)	15.7
Nitrogen Total mg/L (0.5)**	15.7
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5
Sodium mg/L (0.05)	26.25
Specific Conductance uS (0.5)	814
Sulfate mg/L (5)	59
Total Dissolved Solids mg/L (2)	412
Total Suspended Solids mg/L (2)	3
pH Units	7.7

G. Ryan Pattie/bd
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

**TKN + Nitrate value expressed as N mg/L

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Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLR

Data Package Contains _____ Pages

Report No.: 34150

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
33302		A-1	J6L210146-7	JLX041AA	9JLX0410	6355430
		A-1	J6L210146-7	JLX041AC	9JLX0410	6355432
		A-10	J6L210146-12	JLX1N1AA	9JLX1N10	6355430
		A-10	J6L210146-12	JLX1N1AC	9JLX1N10	6355432
		A-2	J6L210146-8	JLX051AA	9JLX0510	6355430
		A-2	J6L210146-8	JLX051AC	9JLX0510	6355432
		A-2A	J6L210146-9	JLX091AA	9JLX0910	6355430
		A-2A	J6L210146-9	JLX091AC	9JLX0910	6355432
		A-3	J6L210146-25	JLX211AA	9JLX2110	6355431
		A-3	J6L210146-25	JLX211AC	9JLX2110	6355433
		A-4	J6L210146-10	JLX1E1AA	9JLX1E10	6355430
		A-4	J6L210146-10	JLX1E1AC	9JLX1E10	6355432
		A-5	J6L210146-26	JLX231AA	9JLX2310	6355431
		A-5	J6L210146-26	JLX231AC	9JLX2310	6355433
		A-6	J6L210146-27	JLX251AA	9JLX2510	6355431
		A-6	J6L210146-27	JLX251AC	9JLX2510	6355433
		A-7	J6L210146-11	JLX1K1AA	9JLX1K10	6355430
		A-7	J6L210146-11	JLX1K1AC	9JLX1K10	6355432
		A-8	J6L210146-28	JLX261AA	9JLX2610	6355431
		A-8	J6L210146-28	JLX261AC	9JLX2610	6355433
		A-9A	J6L210146-29	JLX3A1AA	9JLX3A10	6355431
		A-9A	J6L210146-29	JLX3A1AC	9JLX3A10	6355433
		ARMAZ	J6L210146-23	JLX2T1AA	9JLX2T10	6355431
		ARMAZ	J6L210146-23	JLX2T1AC	9JLX2T10	6355433
		DUP	J6L210146-6	JLX0W1AA	9JLX0W10	6355430
		DUP	J6L210146-6	JLX0W1AC	9JLX0W10	6355432

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
33302		JRS10	J6L210146-20	JLX2G1AA	9JLX2G10	6355431
		JRS10	J6L210146-20	JLX2G1AC	9JLX2G10	6355433
		JRS11	J6L210146-21	JLX2M1AA	9JLX2M10	6355431
		JRS11	J6L210146-21	JLX2M1AC	9JLX2M10	6355433
		JRS8	J6L210146-19	JLX2D1AA	9JLX2D10	6355431
		JRS8	J6L210146-19	JLX2D1AC	9JLX2D10	6355433
		LOWRY	J6L210146-30	JLX3D1AA	9JLX3D10	6355431
		LOWRY	J6L210146-30	JLX3D1AC	9JLX3D10	6355433
		MW05-1	J6L210146-1	JLXWP1AA	9JLXWP10	6355430
		MW05-1	J6L210146-1	JLXWP1AC	9JLXWP10	6355432
		MW05-2	J6L210146-2	JLXXL1AA	9JLXXL10	6355430
		MW05-2	J6L210146-2	JLXXL1AC	9JLXXL10	6355432
		MW05-3	J6L210146-3	JLX0J1AA	9JLX0J10	6355430
		MW05-3	J6L210146-3	JLX0J1AC	9JLX0J10	6355432
		MW05-4	J6L210146-4	JLX0N1AA	9JLX0N10	6355430
		MW05-4	J6L210146-4	JLX0N1AC	9JLX0N10	6355432
		MW05-5	J6L210146-5	JLX0T1AA	9JLX0T10	6355430
		MW05-5	J6L210146-5	JLX0T1AC	9JLX0T10	6355432
		MWA	J6L210146-13	JLX1W1AA	9JLX1W10	6355430
		MWA	J6L210146-13	JLX1W1AC	9JLX1W10	6355432
		MWB	J6L210146-14	JLX121AA	9JLX1210	6355430
		MWB	J6L210146-14	JLX121AC	9JLX1210	6355432
		NW10	J6L210146-18	JLX2A1AA	9JLX2A10	6355431
		NW10	J6L210146-18	JLX2A1AC	9JLX2A10	6355433
		NW5	J6L210146-24	JLX2X1AA	9JLX2X10	6355431
		NW5	J6L210146-24	JLX2X1AC	9JLX2X10	6355433
		NW7	J6L210146-15	JLX131AA	9JLX1310	6355430
		NW7	J6L210146-15	JLX131AC	9JLX1310	6355432
		NW8	J6L210146-16	JLX161AA	9JLX1610	6355431
		NW8	J6L210146-16	JLX161AC	9JLX1610	6355433
		NW9	J6L210146-17	JLX191AA	9JLX1910	6355431
		NW9	J6L210146-17	JLX191AC	9JLX1910	6355433
		TORGESON	J6L210146-22	JLX2Q1AA	9JLX2Q10	6355431
		TORGESON	J6L210146-22	JLX2Q1AC	9JLX2Q10	6355433

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

January 8, 2007

Engineers, Inc.
301 W. College Avenue
Suite 1
Silver City, NM 88061

Attention: Wayne Ericson

Date Received in Lab	:	December 18, 2006
Sample Type	:	Thirty (30) Water
SDG Number	:	33302
Project Name/Number	:	IAS EnviroChem
Requisition Number	:	NUW0604P

CASE NARRATIVE

I. Introduction

On December 18, 2006, thirty water samples were received at the STL Richland (STLR) laboratory for radiochemical analysis. Upon receipt, the samples were assigned the STLR identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J6L210146.

II. Sample Receipt

Sample A3 was received broken and empty. The rest of the samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gross Alpha by method RICH-RC-5014 (EPA 900.0)
Gross Beta by method RICH-RC-5014 (EPA 900.0)

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:

The samples were analyzed in two batches: 6355430 and 6355431. In the both batches the CRDL is not met on samples MW05-5 DUP, A-4, A-7, A-10, MWA, MWB, NW7, NW9, NW10, JRS8, JRS10, ARMAZ, A-3, A-5, A-6, A-8 and A-9A due to high dissolved solids. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

Gross Beta Analysis:

The samples were analyzed in two batches: 6355432 and 6355433. In batch 6355432, only samples A-1 and NW7 meet CRDL. The rest of the samples did not meet CRDL due to high dissolved solids. In the second batch, 6355433, samples NW9, NW10, JRS8, ARMAZ, NW5, A-3, A-5, A-6, A-8 and A-9A did not meet CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Date: 08-Jan-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 34150

SDG No: 33302

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6355430 RICHRC5014									
	A-1 JLX041AA	ALPHA	7.05E-01 +- 9.14E-01	U	pCi/L	100%	1.71E+00	3.00E+00	
	A-10 JLX1N1AA	ALPHA	1.33E+00 +- 2.11E+00	U	pCi/L	100%	4.32E+00	3.00E+00	
	A-2 JLX051AA	ALPHA	2.13E-01 +- 8.50E-01	U	pCi/L	100%	2.24E+00	3.00E+00	
	A-2A JLX091AA	ALPHA	3.25E-01 +- 8.95E-01	U	pCi/L	100%	2.20E+00	3.00E+00	
	A-4 JLX1E1AA	ALPHA	7.53E+00 +- 7.15E+00	U	pCi/L	100%	1.13E+01	3.00E+00	
	A-7 JLX1K1AA	ALPHA	-7.89E+00 +- 5.96E+00	U	pCi/L	100%	2.72E+01	3.00E+00	
	DUP JLX0W1AA	ALPHA	1.04E+00 +- 1.88E+00	U	pCi/L	100%	4.09E+00	3.00E+00	
	MW05-1 JLXWP1AA	ALPHA	1.58E+00 +- 1.66E+00	U	pCi/L	100%	2.80E+00	3.00E+00	
	MW05-1 DUP JLXWP1AD	ALPHA	5.62E-01 +- 1.45E+00	U	pCi/L	100%	3.44E+00	3.00E+00	0.9
	MW05-2 JLXXL1AA	ALPHA	-3.13E-01 +- 6.30E-01	U	pCi/L	100%	2.69E+00	3.00E+00	
	MW05-3 JLX0J1AA	ALPHA	2.80E+00 +- 2.35E+00	U	pCi/L	100%	3.34E+00	3.00E+00	
	MW05-4 JLX0N1AA	ALPHA	8.89E-02 +- 8.74E-01	U	pCi/L	100%	2.60E+00	3.00E+00	
	MW05-5 JLX0T1AA	ALPHA	-1.33E-01 +- 9.96E-01	U	pCi/L	100%	3.30E+00	3.00E+00	
	MWA JLX1W1AA	ALPHA	1.36E+00 +- 5.43E+00	U	pCi/L	100%	1.43E+01	3.00E+00	
	MWB JLX121AA	ALPHA	3.83E+00 +- 6.85E+00	U	pCi/L	100%	1.46E+01	3.00E+00	
	NW7 JLX131AA	ALPHA	3.74E+00 +- 2.71E+00		pCi/L	100%	3.50E+00	3.00E+00	
6355431 RICHRC5014									
	A-3 JLX211AA	ALPHA	2.46E+00 +- 2.54E+00	U	pCi/L	100%	3.80E+00	3.00E+00	
	A-5 JLX231AA	ALPHA	1.86E+00 +- 2.86E+00	U	pCi/L	100%	5.76E+00	3.00E+00	
	A-6 JLX251AA	ALPHA	-2.37E+00 +- 4.40E+00	U	pCi/L	100%	1.90E+01	3.00E+00	

STL Richland

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RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 08-Jan-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 34150 **SDG No:** 33302

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6355431 RICHRC5014									
	A-8								
	JLX261AA	ALPHA	-4.45E+00 +- 5.75E+00	U	pCi/L	100%	2.29E+01	3.00E+00	
	A-9A								
	JLX3A1AA	ALPHA	8.66E+00 +- 8.97E+00	U	pCi/L	100%	1.43E+01	3.00E+00	
	ARMAZ								
	JLX2T1AA	ALPHA	1.17E-01 +- 1.15E+00	U	pCi/L	100%	3.42E+00	3.00E+00	
	JRS10								
	JLX2G1AA	ALPHA	-1.11E-01 +- 2.33E+00	U	pCi/L	100%	8.40E+00	3.00E+00	
	JRS11								
	JLX2M1AA	ALPHA	3.97E+00 +- 2.24E+00		pCi/L	100%	2.17E+00	3.00E+00	
	JRS8								
	JLX2D1AA	ALPHA	8.32E-01 +- 2.98E+00	U	pCi/L	100%	7.73E+00	3.00E+00	
	LOWRY								
	JLX3D1AA	ALPHA	-5.31E-02 +- 7.91E-01	U	pCi/L	100%	2.55E+00	3.00E+00	
	NW10								
	JLX2A1AA	ALPHA	2.11E+00 +- 2.19E+00	U	pCi/L	100%	3.49E+00	3.00E+00	
	NW5								
	JLX2X1AA	ALPHA	4.43E+00 +- 3.26E+00		pCi/L	100%	4.11E+00	3.00E+00	
	NW8								
	JLX161AA	ALPHA	1.82E+00 +- 1.45E+00	J	pCi/L	100%	1.75E+00	3.00E+00	
	NW8 DUP								
	JLX161AD	ALPHA	1.15E+00 +- 1.27E+00	U	pCi/L	100%	2.14E+00	3.00E+00	0.7
	NW9								
	JLX191AA	ALPHA	4.50E+00 +- 6.00E+00	U	pCi/L	100%	1.14E+01	3.00E+00	
	TORGESON								
	JLX2Q1AA	ALPHA	-9.49E-02 +- 1.41E+00	U	pCi/L	100%	4.56E+00	3.00E+00	
6355432 RICHRC5014									
	A-1								
	JLX041AC	BETA	8.25E-01 +- 1.41E+00	U	pCi/L	100%	2.99E+00	4.00E+00	
	A-10								
	JLX1N1AC	BETA	5.74E+00 +- 3.10E+00		pCi/L	100%	5.72E+00	4.00E+00	
	A-2								
	JLX051AC	BETA	2.10E+00 +- 2.23E+00	U	pCi/L	100%	4.59E+00	4.00E+00	
	A-2A								
	JLX091AC	BETA	1.84E+00 +- 2.13E+00	U	pCi/L	100%	4.41E+00	4.00E+00	
	A-4								
	JLX1E1AC	BETA	6.81E+00 +- 7.76E+00	U	pCi/L	100%	1.60E+01	4.00E+00	
	A-7								
	JLX1K1AC	BETA	7.67E+01 +- 1.67E+01		pCi/L	100%	1.85E+01	4.00E+00	

STL Richland

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RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 08-Jan-07

Report No. : 34150

SDG No: 33302

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6355432 RICHRC5014									
	DUP								
	JLX0W1AC	BETA	3.97E+00 +- 2.50E+00	U	pCi/L	100%	4.74E+00	4.00E+00	
	MW05-1								
	JLXWP1AC	BETA	5.02E+00 +- 2.65E+00		pCi/L	100%	4.67E+00	4.00E+00	
	MW05-2								
	JLXXL1AC	BETA	4.69E+00 +- 2.57E+00	U	pCi/L	100%	4.71E+00	4.00E+00	
	MW05-2 DUP								
	JLXXL1AD	BETA	2.36E+00 +- 2.41E+00	U	pCi/L	100%	4.93E+00	4.00E+00	1.3
	MW05-3								
	JLX0J1AC	BETA	4.58E+00 +- 2.84E+00	U	pCi/L	100%	5.23E+00	4.00E+00	
	MW05-4								
	JLX0N1AC	BETA	3.53E+00 +- 2.37E+00	U	pCi/L	100%	4.45E+00	4.00E+00	
	MW05-5								
	JLX0T1AC	BETA	5.94E+00 +- 2.96E+00		pCi/L	100%	5.29E+00	4.00E+00	
	MWA								
	JLX1W1AC	BETA	1.52E+01 +- 6.68E+00		pCi/L	100%	1.17E+01	4.00E+00	
	MWB								
	JLX121AC	BETA	1.73E+01 +- 6.95E+00		pCi/L	100%	1.18E+01	4.00E+00	
	NW7								
	JLX131AC	BETA	3.57E+00 +- 2.10E+00	U	pCi/L	100%	3.95E+00	4.00E+00	
6355433 RICHRC5014									
	A-3								
	JLX211AC	BETA	4.90E+00 +- 3.97E+00	U	pCi/L	100%	7.89E+00	4.00E+00	
	A-5								
	JLX231AC	BETA	1.32E+01 +- 4.16E+00		pCi/L	100%	6.29E+00	4.00E+00	
	A-6								
	JLX251AC	BETA	1.85E+01 +- 1.13E+01	U	pCi/L	100%	2.15E+01	4.00E+00	
	A-8								
	JLX261AC	BETA	5.56E+01 +- 1.75E+01		pCi/L	100%	1.99E+01	4.00E+00	
	A-9A								
	JLX3A1AC	BETA	1.91E+01 +- 9.51E+00		pCi/L	100%	1.70E+01	4.00E+00	
	ARMAZ								
	JLX2T1AC	BETA	5.58E+00 +- 3.79E+00	U	pCi/L	100%	7.29E+00	4.00E+00	
	JRS10								
	JLX2G1AC	BETA	9.43E+00 +- 6.02E+00	U	pCi/L	100%	1.16E+01	4.00E+00	
	JRS11								
	JLX2M1AC	BETA	2.52E+00 +- 1.81E+00	U	pCi/L	100%	3.53E+00	4.00E+00	
	JRS8								
	JLX2D1AC	BETA	8.46E+00 +- 4.50E+00		pCi/L	100%	8.06E+00	4.00E+00	

STL Richland

rptSTLRchSaSummary2 V5.1 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 08-Jan-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 34150

SDG No: 33302

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RER2
6355433	RICHRC5014								
	LOWRY								
	JLX3D1AC	BETA	5.13E+00 +- 2.37E+00		pCi/L	100%	4.10E+00	4.00E+00	
	NW10								
	JLX2A1AC	BETA	3.47E+00 +- 2.64E+00	U	pCi/L	100%	5.18E+00	4.00E+00	
	NW5								
	JLX2X1AC	BETA	7.72E+00 +- 3.07E+00		pCi/L	100%	5.14E+00	4.00E+00	
	NW8								
	JLX161AC	BETA	4.53E+00 +- 1.90E+00		pCi/L	100%	3.01E+00	4.00E+00	
	NW8 DUP								
	JLX161AE	BETA	3.87E+00 +- 1.70E+00	J	pCi/L	100%	2.73E+00	4.00E+00	0.5
	NW9								
	JLX191AC	BETA	1.20E+01 +- 4.93E+00		pCi/L	100%	8.23E+00	4.00E+00	
	TORGESON								
	JLX2Q1AC	BETA	7.60E+00 +- 4.16E+00	U	pCi/L	100%	7.67E+00	4.00E+00	

No. of Results: 64

STL Richland

rptSTLRchSaSummary2 V5.1 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 08-Jan-07

QC Results Summary
STL Richland STLR
Ordered by Method, Batch No, QC Type,.

Report No. : 34150

SDG No.: 33302

Batch / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	Recovery	Bias	MDC|MDA
RICHRC5014								
6355430 BLANK QC								
JL07W1AA	ALPHA	8.19E-02 +- 4.26E-01	U	pCi/L	100%			1.13E+00
6355430 LCS								
JL07W1AC	ALPHA	3.85E+01 +- 9.56E+00		pCi/L	100%	94%	-0.1	1.01E+00
RICHRC5014								
6355431 BLANK QC								
JL07X1AA	ALPHA	1.99E-01 +- 4.11E-01	U	pCi/L	100%			9.25E-01
6355431 LCS								
JL07X1AC	ALPHA	3.59E+01 +- 9.22E+00		pCi/L	100%	89%	-0.1	9.54E-01
RICHRC5014								
6355432 BLANK QC								
JL0701AA	BETA	-9.26E-03 +- 1.09E+00	U	pCi/L	100%			2.45E+00
6355432 LCS								
JL0701AC	BETA	3.82E+01 +- 6.02E+00		pCi/L	100%	95%	0.0	2.46E+00
RICHRC5014								
6355433 BLANK QC								
JL0741AA	BETA	1.62E+00 +- 1.33E+00	U	pCi/L	100%			2.64E+00
6355433 LCS								
JL0741AC	BETA	3.45E+01 +- 7.05E+00		pCi/L	100%	84%	-0.2	2.35E+00

No. of Results: 8

STL Richland
rptSTLRchQcSummary V5.1 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-7
Client Sample ID: A-1

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/3/2006 1:30:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	-RICHRC5014			Work Order: JLX041AA		Report DB ID: 9JLX0410						
ALPHA	7.05E-01	U	9.0E-01	9.1E-01	1.71E+00	pCi/L	100%	*0.41*	1/4/07 03:26 p		0.2031	GPC10B
						6.09E-01	3.00E+00	*(1.5)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX041AC		Report DB ID: 9JLX0410						
BETA	8.25E-01	U	1.4E+00	1.4E+00	2.99E+00	pCi/L	100%	*0.28*	1/4/07 06:34 p		0.1996	GPC32D
						1.42E+00	4.00E+00	*(1.2)*			L	

No. of Results: 2 Comments:

12

STL Richland
OptSTLRchSample
7.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005177

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-12
Client Sample ID: A-10

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/3/2006 11:55:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX1N1AA			Report DB ID: 9JLX1N10					
ALPHA	1.33E+00	U	2.1E+00	2.1E+00	4.32E+00	pCi/L	100%	*0.31*	1/4/07 04:33 p		0.0957 L	GPC10B
						1.54E+00	3.00E+00	*(1.3)*				
Batch: 6355432	RICHRC5014			Work Order: JLX1N1AC			Report DB ID: 9JLX1N10					
BETA	5.74E+00		3.0E+00	3.1E+00	5.72E+00	pCi/L	100%	*(1.)*	1/4/07 07:00 p		0.0975 L	GPC27A
						2.71E+00	4.00E+00	*(3.7)*				

No. of Results: 2 Comments:

13

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005178

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/2/2006 12:45:00 PM
Lot-Sample No.:	J6L210146-8	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	A-2	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX051AA			Report DB ID: 9JLX0510					
ALPHA	2.13E-01	U	8.5E-01	8.5E-01	2.24E+00	pCi/L	100%	*0.1*	1/4/07 03:26 p		0.1685 L	GPC10C
						7.98E-01	3.00E+00	*0.5*				
Batch: 6355432	RICHRC5014			Work Order: JLX051AC			Report DB ID: 9JLX0510					
BETA	2.10E+00	U	2.2E+00	2.2E+00	4.59E+00	pCi/L	100%	*0.46*	1/4/07 07:00 p		0.136 L	GPC26A
						2.19E+00	4.00E+00	*(1.9)*				

No. of Results: 2 Comments:

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-9
Client Sample ID: A-2A

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 1:30:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX091AA			Report DB ID: 9JLX0910					
ALPHA	3.25E-01	U	8.9E-01	8.9E-01	2.20E+00	pCi/L	100%	*0.15*	1/4/07 03:26 p		0.1483 L	GPC10D
						7.59E-01	3.00E+00	*0.73*				
Batch: 6355432	RICHRC5014			Work Order: JLX091AC			Report DB ID: 9JLX0910					
BETA	1.84E+00	U	2.1E+00	2.1E+00	4.41E+00	pCi/L	100%	*0.42*	1/4/07 07:00 p		0.1325 L	GPC26B
						2.10E+00	4.00E+00	*(1.7)*				

No. of Results: 2 Comments:

15

STL Richland
rptSTLRchSample
v5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW00518

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-25
Client Sample ID: A-3

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 11:35:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX211AA		Report DB ID: 9JLX2110						
ALPHA	2.46E+00	U	2.5E+00	2.5E+00	3.80E+00	pCi/L	100%	*0.65*	1/5/07 05:35 p		0.0808	GPC10B
						1.22E+00	3.00E+00	*(1.9)*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX211AC		Report DB ID: 9JLX2110						
BETA	4.90E+00	U	3.9E+00	4.0E+00	7.89E+00	pCi/L	100%	*0.62*	1/5/07 05:12 p		0.072	GPC27B
						3.74E+00	4.00E+00	*(2.5)*			L	

No. of Results: 2 Comments:

16

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-005181

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-10
Client Sample ID: A-4

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 12:06:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX1E1AA			Report DB ID: 9JLX1E10					
ALPHA	7.53E+00	U	6.9E+00	7.1E+00	1.13E+01	pCi/L	100%	*0.67*	1/4/07 03:26 p		0.0391	GPC10F
						4.11E+00	3.00E+00	*(2.1)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX1E1AC			Report DB ID: 9JLX1E10					
BETA	6.81E+00	U	7.7E+00	7.8E+00	1.60E+01	pCi/L	100%	*0.43*	1/4/07 07:00 p		0.0363	GPC26C
						7.59E+00	4.00E+00	*(1.8)*			L	

No. of Results: 2 Comments:

17

STL Richland
RptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005182

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-26
Client Sample ID: A-5

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 1:20:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX231AA		Report DB ID: 9JLX2310						
ALPHA	1.86E+00	U	2.8E+00	2.9E+00	5.76E+00	pCi/L	100%	*0.32*	1/5/07 05:35 p		0.0683	GPC10C
						2.04E+00	3.00E+00	*(1.3)*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX231AC		Report DB ID: 9JLX2310						
BETA	1.32E+01		3.8E+00	4.2E+00	6.29E+00	pCi/L	100%	*(2.1)*	1/5/07 05:12 p		0.0881	GPC27C
						2.98E+00	4.00E+00	*(6.3)*			L	

No. of Results: 2 Comments:

18

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005183

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-27
Client Sample ID: A-6

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 12:15:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX251AA			Report DB ID: 9JLX2510					
ALPHA	-2.37E+00	U	4.4E+00	4.4E+00	1.90E+01	pCi/L	100%	-0.12	1/5/07 05:35 p		0.0225	GPC10D
						6.83E+00	3.00E+00	-(1.1)			L	
Batch: 6355433	RICHRC5014			Work Order: JLX251AC			Report DB ID: 9JLX2510					
BETA	1.85E+01	U	1.1E+01	1.1E+01	2.15E+01	pCi/L	100%	0.86	1/5/07 05:12 p		0.0253	GPC27D
						1.02E+01	4.00E+00	(3.3)			L	

No. of Results: 2 Comments:

19

STL Richland
RptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-005184

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-11
Client Sample ID: A-7

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 11:30:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order:	JLX1K1AA		Report DB ID:	9JLX1K10				
ALPHA	-7.89E+00	U	5.7E+00	6.0E+00	2.72E+01	pCi/L	100%	-0.29	1/4/07 04:33 p		0.0172	GPC10A
						1.03E+01	3.00E+00	-(2.6)			L	
Batch: 6355432	RICHRC5014			Work Order:	JLX1K1AC		Report DB ID:	9JLX1K10				
BETA	7.67E+01		1.3E+01	1.7E+01	1.85E+01	pCi/L	100%	(4.1)	1/4/07 07:00 p		0.0295	GPC26D
						8.75E+00	4.00E+00	(9.2)			L	

No. of Results: 2 Comments:

20

STL Richland
rptSTLRchSample
v5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005785

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-28
Client Sample ID: A-8

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 10:55:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX261AA			Report DB ID: 9JLX2610					
ALPHA	-4.45E+00	U	5.7E+00	5.7E+00	2.29E+01	pCi/L	100%	-0.19	1/5/07 05:35 p		0.0163	GPC10F
						7.93E+00	3.00E+00	-(1.5)			L	
Batch: 6355433	RICHRC5014			Work Order: JLX261AC			Report DB ID: 9JLX2610					
BETA	5.56E+01		1.3E+01	1.7E+01	1.99E+01	pCi/L	100%	(2.8)	1/5/07 05:12 p		0.027	GPC28A
						9.41E+00	4.00E+00	(6.4)			L	

No. of Results: 2 Comments:

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-29
Client Sample ID: A-9A

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 10:20:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX3A1AA			Report DB ID: 9JLX3A10					
ALPHA	8.66E+00	U	8.7E+00	9.0E+00	1.43E+01	pCi/L	100%	*0.6*	1/5/07 06:43 p		0.0261	GPC10F
						4.95E+00	3.00E+00	*(1.9)*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX3A1AC			Report DB ID: 9JLX3A10					
BETA	1.91E+01		9.1E+00	9.5E+00	1.70E+01	pCi/L	100%	*(1.1)*	1/5/07 05:12 p		0.0334	GPC28B
						8.02E+00	4.00E+00	*(4.)*			L	

No. of Results: 2 Comments:

22

STL Richland
ptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 005187

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-23
Client Sample ID: ARMAZ

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 3:15:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2T1AA			Report DB ID: 9JLX2T10					
ALPHA	1.17E-01	U	1.1E+00	1.1E+00	3.42E+00	pCi/L	100%	*0.03*	1/5/07 04:30 p		0.1083 L	GPC10F
						1.18E+00	3.00E+00	*0.2*				
Batch: 6355433	RICHRC5014			Work Order: JLX2T1AC			Report DB ID: 9JLX2T10					
BETA	5.58E+00	U	3.7E+00	3.8E+00	7.29E+00	pCi/L	100%	*0.77*	1/5/07 05:12 p		0.0734 L	GPC26D
						3.44E+00	4.00E+00	*(2.9)*				

No. of Results: 2 Comments:

23

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-6
Client Sample ID: DUP

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/3/2006 11:15:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX0W1AA		Report DB ID: 9JLX0W10						
ALPHA	1.04E+00	U	1.9E+00	1.9E+00	4.09E+00	pCi/L	100%	*0.25*	1/4/07 03:26 p		0.1199	GPC10A
						1.54E+00	3.00E+00	*(1.1)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX0W1AC		Report DB ID: 9JLX0W10						
BETA	3.97E+00	U	2.4E+00	2.5E+00	4.74E+00	pCi/L	100%	*0.84*	1/4/07 06:34 p		0.1142	GPC32C
						2.24E+00	4.00E+00	*(3.2)*			L	

No. of Results: 2 Comments:

24

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW/005189

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/4/2006 2:45:00 PM
Lot-Sample No.:	J6L210146-20	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	JRS10	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2G1AA		Report DB ID: 9JLX2G10						
ALPHA	-1.11E-01	U	2.3E+00	2.3E+00	8.40E+00	pCi/L	100%	*-0.01*	1/5/07 04:30 p		0.0429	GPC10B
						2.70E+00	3.00E+00	*-0.09*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX2G1AC		Report DB ID: 9JLX2G10						
BETA	9.43E+00	U	5.9E+00	6.0E+00	1.16E+01	pCi/L	100%	*0.81*	1/5/07 05:12 p		0.0537	GPC26A
						5.53E+00	4.00E+00	*(3.1)*			L	

No. of Results: 2 Comments:

25

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-21
Client Sample ID: JRS11

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 2:15:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2M1AA		Report DB ID: 9JLX2M10						
ALPHA	3.97E+00		2.0E+00	2.2E+00	2.17E+00	pCi/L	100%	*(1.8)*	1/5/07 04:30 p		0.1559	GPC10C
						7.68E-01	3.00E+00	*(3.5)*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX2M1AC		Report DB ID: 9JLX2M10						
BETA	2.52E+00	U	1.8E+00	1.8E+00	3.53E+00	pCi/L	100%	*0.71*	1/5/07 05:12 p		0.1574	GPC26B
						1.68E+00	4.00E+00	*(2.8)*			L	

No. of Results: 2 Comments:

26

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-0015191

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-19
Client Sample ID: JRS8

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 4:05:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2D1AA			Report DB ID: 9JLX2D10					
ALPHA	8.32E-01	U	3.0E+00	3.0E+00	7.73E+00	pCi/L	100%	*0.11*	1/5/07 04:30 p		0.0505 L	GPC10A
						2.74E+00	3.00E+00	*0.56*				
Batch: 6355433	RICHRC5014			Work Order: JLX2D1AC			Report DB ID: 9JLX2D10					
BETA	8.46E+00		4.3E+00	4.5E+00	8.06E+00	pCi/L	100%	*(1.)*	1/5/07 05:12 p		0.0691 L	GPC32D
						3.83E+00	4.00E+00	*(3.8)*				

No. of Results: 2 Comments:

27

STL Richland
ptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-0005132

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-30
Client Sample ID: LOWRY

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 3:05:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX3D1AA		Report DB ID: 9JLX3D10						
ALPHA	-5.31E-02	U	7.9E-01	7.9E-01	2.55E+00	pCi/L	100%	*-0.02*	1/5/07 06:43 p		0.1539 L	GPC10D
						9.15E-01	3.00E+00	*-0.13*				
Batch: 6355433	RICHRC5014			Work Order: JLX3D1AC		Report DB ID: 9JLX3D10						
BETA	5.13E+00		2.2E+00	2.4E+00	4.10E+00	pCi/L	100%	*(1.2)*	1/5/07 05:12 p		0.1426 L	GPC28C
						1.95E+00	4.00E+00	*(4.3)*				

No. of Results: 2 Comments:

28

STL Richland
rptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-1
Client Sample ID: MW05-1

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 4:40:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLXWP1AA			Report DB ID: 9JLXWP10					
ALPHA	1.58E+00	U	1.6E+00	1.7E+00	2.80E+00	pCi/L	100%	*0.56*	1/4/07 12:55 p		0.1424	GPC10F
						1.02E+00	3.00E+00	*(1.9)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLXWP1AC			Report DB ID: 9JLXWP10					
BETA	5.02E+00		2.5E+00	2.6E+00	4.67E+00	pCi/L	100%	*(1.1)*	1/4/07 06:34 p		0.1236	GPC31A
						2.22E+00	4.00E+00	*(3.8)*			L	

No. of Results: 2 Comments:

29

STL Richland
RptSTLRchSample
/5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW/005194

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-2
Client Sample ID: MW05-2

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 2:20:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLXXL1AA		Report DB ID: 9JLXXL10						
ALPHA	-3.13E-01	U	6.3E-01	6.3E-01	2.69E+00	pCi/L	100%	-0.12	1/4/07 02:20 p		0.1576	GPC10B
						9.59E-01	3.00E+00	-0.99			L	
Batch: 6355432	RICHRC5014			Work Order: JLXXL1AC		Report DB ID: 9JLXXL10						
BETA	4.69E+00	U	2.5E+00	2.6E+00	4.71E+00	pCi/L	100%	1.	1/4/07 06:34 p		0.1224	GPC31B
						2.23E+00	4.00E+00	(3.7)			L	

No. of Results: 2 Comments:

30

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005195

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/2/2006 3:30:00 PM
Lot-Sample No.:	J6L210146-3	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	MW05-3	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX0J1AA		Report DB ID: 9JLX0J10						
ALPHA	2.80E+00	U	2.3E+00	2.4E+00	3.34E+00	pCi/L	100%	*0.84*	1/4/07 02:20 p		0.1121	GPC10C
						1.19E+00	3.00E+00	*(2.4)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX0J1AC		Report DB ID: 9JLX0J10						
BETA	4.58E+00	U	2.7E+00	2.8E+00	5.23E+00	pCi/L	100%	*0.88*	1/4/07 06:34 p		0.109	GPC31D
						2.48E+00	4.00E+00	*(3.2)*			L	

No. of Results: 2 Comments:

31

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-4
Client Sample ID: MW05-4

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/3/2006 2:30:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX0N1AA		Report DB ID: 9JLX0N10						
ALPHA	8.89E-02	U	8.7E-01	8.7E-01	2.60E+00	pCi/L	100%	*0.03*	1/4/07 02:20 p		0.1475	GPC10D
						8.99E-01	3.00E+00	*0.2*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX0N1AC		Report DB ID: 9JLX0N10						
BETA	3.53E+00	U	2.3E+00	2.4E+00	4.45E+00	pCi/L	100%	*0.79*	1/4/07 06:34 p		0.1254	GPC32A
						2.11E+00	4.00E+00	*(3.)*			L	

No. of Results: 2 Comments:

32

STL Richland
RptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005167

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/3/2006 11:15:00 AM
Lot-Sample No.:	J6L210146-5	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	MW05-5	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX0T1AA		Report DB ID: 9JLX0T10						
ALPHA	-1.33E-01	U	1.0E+00	1.0E+00	3.30E+00	pCi/L	100%	*-0.04*	1/4/07 02:20 p		0.1338	GPC10F
						1.20E+00	3.00E+00	*-0.27*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX0T1AC		Report DB ID: 9JLX0T10						
BETA	5.94E+00		2.8E+00	3.0E+00	5.29E+00	pCi/L	100%	*(1.1)*	1/4/07 06:34 p		0.1087	GPC32B
						2.51E+00	4.00E+00	*(4.)*			L	

No. of Results: 2 Comments:

33

STL Richland
RptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005198

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/4/2006 12:05:00 PM
Lot-Sample No.:	J6L210146-13	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	MWA	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX1W1AA		Report DB ID: 9JLX1W10						
ALPHA	1.36E+00	U	5.4E+00	5.4E+00	1.43E+01	pCi/L	100%	*0.1*	1/4/07 04:33 p		0.0256	GPC10C
						5.10E+00	3.00E+00	*0.5*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX1W1AC		Report DB ID: 9JLX1W10						
BETA	1.52E+01		6.4E+00	6.7E+00	1.17E+01	pCi/L	100%	*(1.3)*	1/4/07 07:00 p		0.0488	GPC27B
						5.56E+00	4.00E+00	*(4.5)*			L	

No. of Results: 2 Comments:

34

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-14
Client Sample ID: MWB

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 11:00:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX121AA			Report DB ID: 9JLX1210					
ALPHA	3.83E+00	U	6.8E+00	6.9E+00	1.46E+01	pCi/L	100%	*0.26*	1/4/07 04:33 p		0.0245	GPC10D
						5.05E+00	3.00E+00	*(1.1)*			L	
Batch: 6355432	RICHRC5014			Work Order: JLX121AC			Report DB ID: 9JLX1210					
BETA	1.73E+01		6.6E+00	7.0E+00	1.18E+01	pCi/L	100%	*(1.5)*	1/4/07 07:00 p		0.0476	GPC27C
						5.57E+00	4.00E+00	*(5.)*			L	

No. of Results: 2 Comments:

35

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005200

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-18
Client Sample ID: NW10

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 9:45:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2A1AA		Report DB ID: 9JLX2A10						
ALPHA	2.11E+00	U	2.1E+00	2.2E+00	3.49E+00	pCi/L	100%	*0.6*	1/5/07 09:47 a		0.1006 L	GPC10F
						1.21E+00	3.00E+00	*(1.9)*				
Batch: 6355433	RICHRC5014			Work Order: JLX2A1AC		Report DB ID: 9JLX2A10						
BETA	3.47E+00	U	2.6E+00	2.6E+00	5.18E+00	pCi/L	100%	*0.67*	1/5/07 05:12 p		0.104 L	GPC32C
						2.45E+00	4.00E+00	*(2.6)*				

No. of Results: 2 Comments:

36

STL Richland
rptSTLRchSample
V5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005201

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-24
Client Sample ID: NW5

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/6/2006 2:15:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2X1AA		Report DB ID: 9JLX2X10						
ALPHA	4.43E+00		3.1E+00	3.3E+00	4.11E+00	pCi/L	100%	(1.1)	1/5/07 05:35 p		0.0948 L	GPC10A
						1.46E+00	3.00E+00	(2.7)				
Batch: 6355433	RICHRC5014			Work Order: JLX2X1AC		Report DB ID: 9JLX2X10						
BETA	7.72E+00		2.9E+00	3.1E+00	5.14E+00	pCi/L	100%	(1.5)	1/5/07 05:12 p		0.1058 L	GPC27A
						2.43E+00	4.00E+00	(5.)				

No. of Results: 2 Comments:

37

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 08-Jan-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-15
Client Sample ID: NW7

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 1:35:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JLX131AA		Report DB ID: 9JLX1310						
ALPHA	3.74E+00		2.6E+00	2.7E+00	3.50E+00	pCi/L	100%	(1.1)	1/4/07 04:33 p		0.104	GPC10F
						1.27E+00	3.00E+00	(2.8)			L	
Batch: 6355432	RICHRC5014			Work Order: JLX131AC		Report DB ID: 9JLX1310						
BETA	3.57E+00	U	2.0E+00	2.1E+00	3.95E+00	pCi/L	100%	0.9	1/4/07 07:00 p		0.1425	GPC27D
						1.87E+00	4.00E+00	(3.4)			L	

No. of Results: 2 Comments:

38

STL Richland
rptSTLRchSample
75.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005203

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-16
Client Sample ID: NW8

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 4:40:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX161AA		Report DB ID: 9JLX1610						
ALPHA	1.82E+00	J	1.4E+00	1.4E+00	1.75E+00	pCi/L	100%	(1.)	1/5/07 09:47 a		0.1926	GPC10B
						5.62E-01	3.00E+00	(2.5)			L	
Batch: 6355433	RICHRC5014			Work Order: JLX161AC		Report DB ID: 9JLX1610						
BETA	4.53E+00		1.7E+00	1.9E+00	3.01E+00	pCi/L	100%	(1.5)	1/5/07 03:16 p		0.192	GPC31D
						1.43E+00	4.00E+00	(4.8)			L	

No. of Results: 2 Comments:

39

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name: STL Richland
Lot-Sample No.: J6L210146-17
Client Sample ID: NW9

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/4/2006 11:30:00 AM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX191AA		Report DB ID: 9JLX1910						
ALPHA	4.50E+00	U	5.9E+00	6.0E+00	1.14E+01	pCi/L	100%	*0.4*	1/5/07 09:47 a		0.0332	GPC10D
						4.09E+00	3.00E+00	*(1.5)*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX191AC		Report DB ID: 9JLX1910						
BETA	1.20E+01		4.6E+00	4.9E+00	8.23E+00	pCi/L	100%	*(1.5)*	1/5/07 05:12 p		0.0681	GPC32B
						3.91E+00	4.00E+00	*(4.8)*			L	

No. of Results: 2 Comments:

40

STL Richland
RptSTLRchSample
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005205

FORM I

SAMPLE RESULTS

Date: 08-Jan-07

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/4/2006 5:10:00 PM
Lot-Sample No.:	J6L210146-22	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	TORGESON	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX2Q1AA		Report DB ID: 9JLX2Q10						
ALPHA	-9.49E-02	U	1.4E+00	1.4E+00	4.56E+00	pCi/L	100%	*-0.02*	1/5/07 04:30 p		0.0874	GPC10D
						1.64E+00	3.00E+00	*-0.13*			L	
Batch: 6355433	RICHRC5014			Work Order: JLX2Q1AC		Report DB ID: 9JLX2Q10						
BETA	7.60E+00	U	4.0E+00	4.2E+00	7.67E+00	pCi/L	100%	*0.99*	1/5/07 05:12 p		0.0721	GPC26C
						3.63E+00	4.00E+00	*(3.7)*			L	

No. of Results: 2 Comments:

41

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 08-Jan-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-1
Client Sample ID: MW05-1 DUP

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 4:40:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014 , .			Work Order: JLXWP1AD		Report DB ID: JLXWP1DR			Orig Sa DB ID: 9JLXWP10			
ALPHA	5.62E-01	U	1.4E+00	1.4E+00	3.44E+00	pCi/L	100%	0.16	1/4/07 02:20 p		0.1452	GPC10A
	1.58E+00	U	RER2 0.9			3.00E+00		0.78			L	

No. of Results: 1 Comments:

42

STL Richland
rptSTLRchDupV5.1
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005207

FORM II

Date: 08-Jan-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J6L210146-2
Client Sample ID: MW05-2 DUP

SDG: 33302
Report No. : 34150
COC No. :

Collection Date: 12/2/2006 2:20:00 PM
Received Date: 12/18/2006 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355432	RICHRC5014			Work Order: JLXXL1AD		Report DB ID: JLXXL1DR			Orig Sa DB ID: 9JLXXL10			
BETA	2.36E+00	U	2.4E+00	2.4E+00	4.93E+00	pCi/L	100%	0.48	1/4/07 06:34.p		0.1221	GPC31C
	4.69E+00	U	RER2 1.3			4.00E+00		(2.)			L	

No. of Results: 1 Comments:

43

STL Richland
OptSTLRchDupV5.1
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMP 085208

FORM II

Date: 08-Jan-07

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	33302	Collection Date:	12/4/2006 4:40:00 PM
Lot-Sample No.:	J6L210146-16	Report No. :	34150	Received Date:	12/18/2006 10:00:00 AM
Client Sample ID:	NW8 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355431	RICHRC5014			Work Order: JLX161AD		Report DB ID: JLX161DR			Orig Sa DB ID: 9JLX1610			
ALPHA	1.15E+00	U	1.2E+00	1.3E+00	2.14E+00	pCi/L	100%	0.54	1/5/07 09:47 a		0.1929	GPC10C
	1.82E+00	J	RER2 0.7			3.00E+00		(1.8)			L	
Batch: 6355433	RICHRC5014			Work Order: JLX161AE		Report DB ID: JLX161ER			Orig Sa DB ID: 9JLX1610			
BETA	3.87E+00	J	1.5E+00	1.7E+00	2.73E+00	pCi/L	100%	(1.4)	1/5/07 05:12 p		0.1921	GPC32A
	4.53E+00		RER2 0.5			4.00E+00		(4.6)			L	

No. of Results: 2 Comments:

STL Richland
StSTLRchDupV5.1
2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMS 005209

FORM II

BLANK RESULTS

Date: 08-Jan-07

Lab Name: STL Richland

Matrix: WATER

SDG: 33302

Report No. : 34150

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JL07W1AA		Report DB ID: JL07W1AB						
ALPHA	8.19E-02	U	4.3E-01	4.3E-01	1.13E+00	pCi/L	100%	0.07	1/4/07 05:46 p		0.2018	GPC10A
					4.26E-01	3.00E+00		0.38			L	
Batch: 6355431	RICHRC5014			Work Order: JL07X1AA		Report DB ID: JL07X1AB						
ALPHA	1.99E-01	U	4.1E-01	4.1E-01	9.25E-01	pCi/L	100%	0.22	1/5/07 06:43 p		0.2025	GPC10C
					3.28E-01	3.00E+00		0.97			L	
Batch: 6355432	RICHRC5014			Work Order: JL0701AA		Report DB ID: JL0701AB						
BETA	-9.26E-03	U	1.1E+00	1.1E+00	2.45E+00	pCi/L	100%	0.	1/4/07 07:00 p		0.2017	GPC28A
					1.16E+00	4.00E+00		-0.02			L	
Batch: 6355433	RICHRC5014			Work Order: JL0741AA		Report DB ID: JL0741AB						
BETA	1.62E+00	U	1.3E+00	1.3E+00	2.64E+00	pCi/L	100%	0.62	1/5/07 05:12 p		0.1998	GPC28D
					1.25E+00	4.00E+00		(2.4)			L	

No. of Results: 4 Comments:

STL Richland
rptSTLRchBlank
5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

45

NUW 005210

FORM II

Date: 08-Jan-07

LCS RESULTS

Lab Name: STL Richland

Matrix: WATER

SDG: 33302

Report No. : 34150

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 6355430	RICHRC5014			Work Order: JL07W1AC			Report DB ID: JL07W1CS						
ALPHA	3.85E+01		4.1E+00	9.6E+00	1.01E+00	pCi/L	100%	4.09E+01	1.28E+00	94%	1/4/07 05:46 p	0.1996	GPC10B
							Rec Limits:	70	130	-0.1		L	
Batch: 6355431	RICHRC5014			Work Order: JL07X1AC			Report DB ID: JL07X1CS						
ALPHA	3.59E+01		3.9E+00	9.2E+00	9.54E-01	pCi/L	100%	4.03E+01	1.26E+00	89%	1/5/07 06:43 p	0.2028	GPC10A
							Rec Limits:	70	130	-0.1		L	
Batch: 6355432	RICHRC5014			Work Order: JL0701AC			Report DB ID: JL0701CS						
BETA	3.82E+01		2.9E+00	6.0E+00	2.46E+00	pCi/L	100%	4.01E+01	7.97E-01	95%	1/4/07 07:00 p	0.2034	GPC28B
							Rec Limits:	70	130	0.0		L	
Batch: 6355433	RICHRC5014			Work Order: JL0741AC			Report DB ID: JL0741CS						
BETA	3.45E+01		2.7E+00	7.1E+00	2.35E+00	pCi/L	100%	4.11E+01	8.16E-01	84%	1/5/07 05:12 p	0.2009	GPC31D
							Rec Limits:	70	130	-0.2		L	

No. of Results: 4 Comments:

46

STL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
V5.1 A2002

NUWJ-00521

JGL210146 35002

Due 01.08.07

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3306@iasenvirochem.com

12/19/2006 14:59 2082373336 IAS ENVIRO CHEM PAGE 02

Company Name: Engineers INC

Address: 301 W. College Ave., Suite 1

City Silver City State: NM Zip: 88061

Requisition No: NUW0604P

Special INSTRUCTIONS

Analyses Requested

Comments

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Description	Date/Time Collected	Gross Alpha	Gross Beta																		
11206-4836	MW05-1	12/02/06 16:40	X	X					J	L	X	W	P									
11206-4837	MW05-2	12/02/06 14:20	X	X					J	L	X	X	L									
11206-4838	MW05-3	12/02/06 15:30	X	X					J	L	X	O	J									
11206-4839	MW05-4	12/03/06 14:30	X	X					J	L	X	O	V									
11206-4840	MW05-5	12/03/06 11:15	X	X					J	L	X	O	T									
11206-4841	DUP	12/03/06 11:15	X	X					J	L	X	O	W									
11206-4842	A-1	12/03/06 13:30	X	X					J	L	X	O	4									
11206-4843	A-2	12/02/06 12:45	X	X					J	L	X	0	5									
11206-4844	A-2A	12/02/06 13:30	X	X					J	L	X	0	9									
11206-4845	A-4	12/02/06 12:06	X	X					J	L	X	1	E									
11206-4846	A-7	12/02/06 11:30	X	X					J	L	X	1	K									
11206-4847	A-10	12/03/06 11:55	X	X					J	L	X	1	N									

RELINQUISHED BY

Signature: [signature]

Printed Name: Brekelle Deeg

Date/Time:

RECEIVED BY

Signature: S. Smith 12.18.06

Printed Name:

Date/Time:

Lab Use Only

Received Intact?	YES	NO
Labels and Chain Agree?	YES	NO
Container Sealed?	YES	NO

33302 Due 01-08-07

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: Engineers INC

Address: 301 W. College Ave., Suite 1

City Silver City State: NM Zip: 88061

Requisition No: NUW0604P

Special INSTRUCTIONS

Analyses Requested

Comments

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Description	Date/Time Collected	Gross Alpha	Gross Beta																	
11206-4868	MWA	12/04/06 12:05	X	X				J	L	X1	a										
11206-4869	MWB	12/04/06 11:00	X	X				J	L	X1	2										
11206-4870	NW7	12/04/06 13:35	X	X				J	L	X	13										
11206-4871	NW8	12/04/06 16:40	X	X				J	L	X	16										
11206-4872	NW9	12/04/06 11:30	X	X				JL	X1	9											
11206-4873	NW10	12/04/06 9:45	X	X				J	L	X	2A										
11206-4874	JRS8	12/04/06 16:05	X	X				J	L	X	2D										
11206-4875	JRS10	12/04/06 14:45	X	X				J	L	X	2G										
11206-4876	JRS11	12/04/06 14:15	X	X				JL	X2	m											
11206-4877	TORGESON	12/04/06 17:10	X	X				JL	X2	Q											
11206-4878	ARMAZ	12/04/06 15:15	X	X				JL	X2	T											

RELINQUISHED BY

Signature [signature]

Printed Name Brekelle Deed

Date/Time

RECEIVED BY

Signature:

Printed Name:

Date/Time:

Lab Use Only

Received Intact? YES NO

Labels and Chain Agree? YES NO

Container Sealed? YES NO

Vol 2.-144
33302 Due 01.08.07

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3388@iasenvirochem.com

Company Name: Engineers INC

Address: 301 W. College Ave., Suite 1

City Silver City State: NM Zip: 88061

Requisition No: NUW0604P

Special INSTRUCTIONS

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Description	Date/Time Collected	Gross Alpha	Gross Beta						Comments
11206-4928	NW5	12/06/06 14:15	X	X			JL	X	2X	
11206-4929	A-3	12/06/06 11:35	X	X			JL	X2	1	
11206-4930	A-5	12/06/06 13:20	X	X			JL	X2	3	
11206-4931	A-6	12/06/06 12:15	X	X			JL	X2	5	
11206-4932	A-8	12/06/06 10:55	X	X			JL	X2	6	
11206-4933	A-9A	12/06/06 10:20	X	X			JL	X3	A	
11206-4934	LOWRY	12/06/06 15:05	X	X			JL	X3	D	

RELINQUISHED BY

Signature: [signature]

Printed Name: Brekelle Deeg

Date/Time:

RECEIVED BY

Signature:

Printed Name:

Date/Time:

Lab Use Only

Received Intact?	YES	NO
Labels and Chain Agree?	YES	NO
Container Sealed?	YES	NO

ENGINEERS INC
ATTN: ACCOUNTING DEPT.

REQUISITION NO NU4006049

MTHLY ORDER
EMERGENCY
Payment Method
Master Card
Charge
Check

SHIP TO ENGINEERS INC
301 W. College Ave. Suite 1
Silver City, NM 88061

REQUISITION ORDER

DATE OF REQUISITION 12/15/06

NAME. WAE

OFFICE: SVC

VENDOR NAME STL HANFORD LABS

Phone
FAX

QUANTITY	UNIT	ITEM #	ITEM DESCRIPTION	ITEM PRICE	TOTAL PRICE
30+	ea		Gross Alpha		
30	ea		gross Beta		
			Samples from		
			Aquatim CPD		
			Shipped by		
			IAS Enviroham		

TOTAL AMOUNT OF REQUISITION $ 1900.00

DATE REQUISITION RECEIVED: 12/15/06

FINANCIAL DEPT. APPROVAL BY: DATE:

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 12-18-06 1000

Client: Envirochem SDG #: 33302 NA [ ] SAF #: _____ NA [ ]

Work Order Number: J6L210146 Chain of Custody # _____

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [✓] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]

3. Chain of Custody record present? Yes [✓] No [ ]

4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: 30

7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]

8. Samples have:
_____tape
_____custody seals
_____hazard labels
✓ appropriate samples labels

9. Samples are:
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ]

11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [ ]

13. Description of anomalies (include sample numbers): NO - COCS UPON ARRIVAL - 1 bottle - sample A3 broken - empty

Sample Custodian: S. Smith Date: 12-18-06 1000

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

GROUND WATER ASSESSMENT REPORT
Spring 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0701P

July 2007

ENGINEERS INC

July 31, 2007

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations - Agrium
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Spring 2007 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0701P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Spring 2007 activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO). This assessment includes evaluating sample collection data following the gypsum stack Phase I expansion area spill incident in late December 2006 and the gypsum line spill in late March 2007.

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

Wayne A. Ericson, P.E. 7/31/07
Engineers Inc.

Cc: Jim Cagle
Attachments

(505) 574-2288 - Wayne's wife
574-2295 - Wayne

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com
Our vision is to be the leading professional team, serving our communities with quality and integrity.

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Report

1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2.**

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, June and December 2006 and May 2007. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-12, MW05-1 through 5, MWA and MWB); wells A-11 and A-12 were drilled in the spring of 2007 in response to a spill incident at the new gypsum stack area, that is located northwest of the original stacks and the chemical plant.

- collection of ground water samples from 20 monitoring wells, five on-site production wells, three offsite production wells (Simplot well JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);

- collection of quality assurance samples, including duplicate samples and an equipment blank;

- submittal of the ground water samples to IAS-Envirochem, Inc., and Severn Trent Laboratories, Inc. (STL) for laboratory analysis of the parameters listed in the approved GWMP; and,

- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of all available laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1
Summary of Assessment Activities and Completion Dates

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	2003 – 2005	June-Dec 2006	April-May 2007
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--	X A-11 and 12
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--	
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--	
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--	
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X	X

NUW 005223

In response to a spill incident in late December 2006 at the southeast corner of the Phase I gypsum stack expansion area, northwest of the original gypsum stack area, two new monitoring wells were installed. The new wells were located south of the new stack area on property owned by the Torgesen Ranch, Inc., based on a monitoring and response plan that was submitted and approved by IDEQ (Loughlin Water, April 2007).

The new wells were designated as A-11 and A-12. They were located southeast of the Torgesen Ranch residence, near a swale or ditch that is periodically used for irrigation water, because this ditch received acidic water from the gypsum stack spill incident. The wells were located on each side of a near-vertical basalt escarpment that is believed to be associated with a fault line (Armstrong, 1969). They are located west of the original monitoring well A-3 and generally downgradient of the new and original gypsum stacks. The location of the new wells is shown on Figure 3.

The drilling depth for both locations was approximately 144 feet below the existing ground surface. The drill holes typically encountered interbedded layers of black, gray and brown basalt. The holes were fitted with two-inch diameter solid and slotted PVC well casing that extended to 140 feet below grade in A-11 and 112 feet below grade in A-12. The initial water levels in each hole ranged from about 112 feet to 82 feet, below the ground surface in A-11 and A-12, respectively. The well construction logs are shown as Figures 8 and 9.

In addition to the two new wells, the monitoring plan recommended frequent sampling for indicator and GWMP parameters in the Torgesen domestic well and production wells NW-5 and NW-10.

In March 2007 a gypsum line spill occurred between the existing gypsum ponds (2 and 3) and the chemical plant. Acid gypsum slurry water was released to an unlined ditch east of the cooling ponds and gypsum pond No. 1. The free water was captured and/or treated on-site. A monitoring plan was developed by Loughlin Water (May 2007) to do frequent sampling of near-by Simplot production well JRS-10 to determine if there were any groundwater impacts in the area of the spill.

2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-12, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2,** and the locations of the wells are shown on **Figure 3.** These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data Conda Phosphate Operations Spring 2007				
Well ID	Data Collection Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Est. Ground Water Elevation (feet)
A-1	May 2007	6,221.7	33.9	6187.8
A-2	May 2007	6,156.8	17.2	6139.6
A-3	May 2007	6149.8	93.8	6056.0
A-4	May 2007	6,149.8	47.4	6102.4
A-5	May 2007	6,150.4	85.5	6064.9
A-6	May 2007	6,150.2	96.1	6054.1
A-7	May 2007	6150.5	91.5	6059.0
A-8	May 2007	6,149.0	107.4	6041.6
A-9A	May 2007	6,146.3	103.0	6043.3
A-10	May 2007	6,124.3	133.1	5991.2
A-11	May 2007	6147	121.7	6025.3
A-12	May 2007	6125	83.7	6041.3
A-2A	May 2007	6,161*	13.9	6147.1
MWA	May 2007	6,155.8	52.5	6103.3
MWB	May 2007	6,162.5	60.4	6102.1
MW05-1	May 2007	6160*	105.8	6054.2
MW05-2	May 2007	6160*	14.4	6145.6
MW05-3	May 2007	6152*	59.3	6092.7
MW05-4	May 2007	6174*	169.0	6005.0
MW05-05	May 2007	6178*	175.2	6002.8

*Estimated from topographic map

2.2 Ground Water Sampling

In May 2007, ground water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Aquatech LLC for Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; two plant site monitoring wells
- Five new monitoring wells associated with the Phase I gypsum stack expansion
- Two new monitoring wells, A-11 and 12
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well, located at the Arr-Maz Products, Inc. facility; and,
- The domestic wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3.**

Table 3
Summary of Field Parameter Readings
May 2007

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	7.06	475	12.6
A-2	7.40	732	5.9
A-3	5.76	1411	9.6
A-4	5.98	2520	7.5
A-5	6.06	1297	9.4
A-6	6.25	3230	9.6
A-7	6.44	4340	14.1
A-8	6.44	4250	12.6
A-9A	6.35	3080	9.2
A-10	7.19	960	9.6
A-11	6.31	1377	13.2
A-12	7.26	1002	12.1
A-2A	7.40	788	8.0
*NW-1	N/A	N/A	N/A
*NW-5	6.47	1555	16.5
NW-7	7.76	833	8.8
NW-8	7.90	480	10.0
NW-9	6.23	1468	9.6
NW-10	7.41	983	8.7
*MT Fuel	N/A	N/A	N/A
JRS 10	6.50	2240	9.3
JRS 11	7.80	596	8.6
ARR-MAZ	6.85	1310	16.6
LOWRY	7.44	689	8.7
TORGESEN	7.30	1419	7.4
MWA	5.62	3330	10.5
MWB	5.50	1327	12.0
JRS-8	6.22	1684	9.2
MW05-1	7.58	750	8.4
MW05-2	6.85	821	7.8
MW05-3	7.57	958	7.5
MW05-4	7.67	828	8.1
MW05-5	7.01	940	7.7

Notes: 1) µS/cm = microSiemens per centimeter; °C = degrees Celsius
* well not sampled; pump not working

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were

operating in an "on demand" mode. Prior to sample collection, sampling ports or valves in the piping on the downstream side of each well pump were opened to remove stagnant water from the fitting. At each location, a minimum of 15 to 20 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.03	mg/L
Ammonia (Total)	350.3	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.7	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	325.2	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.8	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	353.2	1	mg/L
Nitrogen (Total) and TKN	351.4	0.5	mg/L
Orthophosphate	365.1	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.1	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for May 2007 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt. Water level data from the new well A-12 also appears to indicate that the screened interval was placed in a partially confined layer of the aquifer as the water level elevation is higher in A –12 than the upslope well A-11.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated upward as compared to December 2006. Water levels in wells A-2 and A-2A probably reflect the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through May 2007 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevations Dec. 2006 (ft. NGVD)	Ground Water Elevations May 2007 (ft. NGVD)	Ground Water Elevation Difference from 12/06 –5/07 (feet)
A-1	6190.7	6187.8	-2.9
A-2	6144.8	6139.6	-5.2
A-3	6062.8	6056.0	-6.8
A-4	6111.5	6102.4	-9.1
A-5	6066.9	6064.9	-2.0
A-6	6054.2	6054.1	-0.1
A-7	6058.5	6059.0	+0.5
A-8	6035.0	6041.6	+6.6
A-9/A-9A	6036.3	6043.3	+7.0
A-10	5988.3	5991.2	+2.9
A-2A	6151.0	6147.1	-3.9
MW05-1	6049.2	6054.2	+6.0
MW05-2	6147.0	6145.6	-1.4
MW05-3	6104.5	6092.7	-11.8
MW05-4	6003.0	6005.0	+2.0
MW05-5	6002.2	6002.8	+0.6
MW A	6101.8	6103.3	+1.5
MW B	6101.7	6102.1	+0.4

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results, along with a comparison of those results with the referenced water quality standards, is provided in a table contained in **Appendix C**. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-3, A-4, A-5, A-6, A-7, A-8, A-9A, A-10, A-11, A-12, MW 05-3 and 5, JRS-8 and JRS-10) reveal levels of TDS above the state standard of 500 mg/l. Production wells NW-5, NW-7, NW-9, NW-10 and JRS-10 and the Torgesen and Arr-Maz wells also revealed TDS levels above 500 mg/l. The TDS levels above the state standard are highlighted in the Table in Appendix C.

Maps of TDS and ammonia concentrations for May 2007 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

3.4 Spill Impact Assessment

It is understood, that the gypsum stack spill incident, that occurred in late December 2006 resulted in acidic gypsum decant water leaving the Agrium CPO property and being carried toward the south and southwest in an existing irrigation ditch on the adjacent Torgesen Ranch property. In order to monitor any impacts to the water table in the area downgradient and downslope of the spill limits, two new monitoring wells were installed on the Torgesen Ranch property, west of existing monitoring wells A-3 and A-6, which are also located on Torgesen Ranch property, west of the original gypsum stack area.

Using typical indicator parameters (TDS, sodium, sulfate, ortho-phosphate, total nitrogen, ammonia and potassium) associated with the plant operations, the water quality in well A-11 appears to have been impacted by the spill, based on May 2007 sample testing results. While well A-12, which is downslope of well A-11 and had a water level that is higher than A-11 (which appears to indicate a possible hydraulic barrier, along the fault line, between wells A-11 and A-12) did not seem to show impacts from the spill. Also the lack of elevated ortho-phosphate and ammonia, in the Torgesen Ranch well appears to indicate it had not been impacted by the spill, as of the May 2007 sampling event. Table 12 summarizes the comparison of these parameters for various wells in the area west and south of the gypsum stack spill limits.

To further assess any potential spill impacts, the Torgesen Ranch well, located northwest of the spill area, was sampled and tested weekly between January 3, 2007 and late June 2007. A review of sample parameters typically associated with gypsum decant water further supports the conclusion that the Torgesen Ranch well had likely not been impacted by the spill incident in late December 2006. The indicator parameters, sodium, sulfate, nitrate and total phosphorus are shown with respect to sampling time in Table 12A. The sample test reports are included in Appendix D.

A gypsum slurry line release was reported to have occurred in late March 2007 between Gypsum ponds 2/3 and the chemical plant area. Water reported flowed in ditches and over land in a southwesterly direction along the railroad tracks. The released water was immediately treated with limestone and/or pumped and returned to the gypsum stack system. Following this spill a ground water monitoring plan was developed. Simplot's production wellJRS-10 and the inactive production well JRS-8, which is near the south end of the spill limits was sampled in May 2007, as they have been for the past several sampling events.

A comparison of recent historical indicator parameters (ortho-phosphate, pH, conductivity, ammonia, sulfate, sodium and TDS) for wells JRS-8 and JRS-10, appears to indicate no increase in the parameters, thus no measurable impact (as of May 2007) due to the gypsum line spill event in March 2007. The historical comparison is presented in Table 13.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed variable water levels as compared to sampling intervals in December 2006. Wells A-3, A-6, A-7, and A-8 again had water in them after several sampling periods of being dry, and were sampled.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient and plant monitor wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in up-gradient wells (wells A-1, NW-7, NW-8 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the December 2006 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous and aluminum, as compared to the up gradient background wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the up-gradient wells) collected from the monitoring wells west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The monitoring wells installed in 2005 around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

8) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

10) The ground water in well A-11, in the vicinity of the south end of the December 2006 gypsum stack spill limits, appears to have impacted by the spill. The water in well A-12 and the Torgesen Ranch well do not appear to show measurable impacts, based on the May 2007 semi-annual sampling event. Weekly sampling and testing of the Torgesen Ranch well between early January and late June 2007 appears to further support this conclusion.

11) A review of historical indicator parameters for wells JRS-8 and JRS-10, south and downgradient of the March 2007 gypsum line spill limits appears to reveal no measurable impacts from that event, based on the May 2007 sampling.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (at least semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

5.0 REFERENCES

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Table 7 Page 1 of 2
TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	270	222	284	292	208	270	294	278	252
A-2	370	378	416	430	436	412	388	N.S.	N.S.
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.
A-4	455	546	758	644	740	1,074	998	1,002	1,186
A-5	740	552	554	622	646	708	760	824	790
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622
NW-7	470	542	542	498	452	560	562	568	536
NW-8	245	232	328	304	290	322	304	344	308
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548
JRS-11	N.S.	1,350	328	398	342	398	292	370	356
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804
Lowry	N.S.	N.S.	340	422	356	460	290	440	358
Torgesen	645	590	544	588	552	1,494	672	722	762
JRS 8						Wells First Sampled in June 2005			
MW A									
MW B									

NOTE: N.S.= Not sampled

TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Total Dissolved Solids Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
A-1	256	266	298	278	264	280	246
A-2	N.S.	390	N.S.	432	436	426	392
A-3	N.S.	N.S.	N.S.	N.S.	930	822	928
A-4	1,564	1,810	1,880	1,844	2,238	1,880	1,644
A-5	730	770	780	800	908	890	896
A-6	N.S.	N.S.	N.S.	N.S.	2,234	2,368	2,174
A-7	N.S.	N.S.	N.S.	N.S.	2,728	2,954	2,864
A-8	N.S.	N.S.	N.S.	N.S.	3,160	2,962	2,806
A-9/A-9A	1,990	1,764	1,774	1,602	1,858	2,170	2,188
A-10	682	596	650	660	672	674	612
MF Well	N.S.	1,078	1,138	1,080	N.S.	N.S.	N.S.
NW-1	1,486	1,664	1,102	1,506	N.S.	N.S.	N.S.
NW-5	2,130	1,816	2,432	914	N.S.	658	1,780
NW-7	554	554	472	514	556	596	538
NW-8	328	320	304	312	310	348	284
NW-9	N.S.	2,882	1,970	1,526	1,538	1,606	1,316
NW-10	686	742	652	670	660	616	594
JRS-10	1,458	1,534	1,274	1,256	1,366	1,510	1,508
JRS-11	374	402	374	386	396	374	352
Arr-Maz	572	682	656	732	728	714	782
Lowry	418	404	430	404	460	412	398
Torgesen	812	744	786	816	936	916	904
JRS 8			1,256	1,166	1,488	1,202	1,198
MW A			2,860	3,360	3,282	2,794	2,158
MW B			3,198	3,872	1,826	2,304	?
A--11							1,122
A-12							720
MW05-1				428	414	446	414
MW05-2				486	482	496	444
MW05-3				558	432	550	550
MW05-4				434	378	440	466
MW05-5				702	434	552	542

E: N.S.= Not sampled

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TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Total Nitrogen Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not sampled

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Total Nitrogen Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
A-1	1.20	<0.5	<0.5	<0.5	20.1	<0.5	0.9
A-2	N.S.	3.9	N.S.	<0.5	0.7	<0.5	0.7
A-3	N.S.	N.S	N.S.	N.S.	2.3	1.9	<0.5
A-4	6.00	5.6	8.5	8.5	25.0	18.9	<0.5
A-5	1.40	<0.5	<0.5	<0.5	1.1	<0.5	<0.5
A-6	N.S.	N.S.	N.S.	N.S.	57.0	34.9	14.9
A-7	N.S.	N.S.	N.S.	N.S.	104.0	84	105.2
A-8	N.S.	N.S.	N.S.	N.S.	86.0	73	98.4
A-9/A-9A	7.10	7.3	6.8	6.1	7.8	10.9	10.6
A-10	8.20	8.0	7.1	7.4	7.4	7.1	6.8
MF Well	N.S.	2.7	2.3	1.0	N.S.	N.S.	N.S.
NW-1	15.20	20.1	3.5	19.3	N.S.	N.S.	N.S.
NW-5	50.70	9.7	41.4	8.9	N.S.	1.7	10.2
NW-7	4.20	3.6	6.4	4.2	3.8	3.4	3.2
NW-8	3.60	2.8	3.1	2.8	3.2	3.0	2.6
NW-9	N.S.	23.3	22.9	14.8	27.7	17.0	15.0
NW-10	<1.0	0.7	0.8	<0.5	<0.5	<0.5	<0.5
JRS-10	23.80	21.4	19.2	16.7	27.8	21.4	22.2
JRS-11	2.0	1.4	1.5	1.5	1.0	1.2	1.4
Arr-Maz	1.30	<0.5	1.0	1.0	<0.5	<0.5	<0.5
Lowry	13.10	12.0	17.4	14.1	17.1	15.7	12.1
Torgesen	35.0	33.2	38.3	39.3	52.0	39	41.0
JRS 8			16.0	8.1	28.9	13.6	16.7
MW A			122.0	84.0	237.0	178	225.0
MW B			17.8	24.2	9.9	10.5	10.9
A-11							12.3
A-12							1.1
MW05-1				1.8	2.4	1.6	1.9
MW05-2				<0.5	<0.5	<0.5	<0.5
MW05-3				<0.5	<0.5	<0.5	0.7
MW05-4				3.70	3.4	1.6	3.5
MW05-5				1.40	3.0	2.2	2.3

NOTE: N.S. = Not sampled

Table 9 Page 1 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

	Sulfate Concentrations (mg/L)								
Well ID	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	17	11	11	12	12	12	8	12	13
A-2	29	32	37	36	54	34	42	N.S.	N.S.
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.
A-4	37	40	70	47	60	212	156	135	279
A-5	104	104	119	129	133	167	172	189	193
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	844	535	666	916	125	68	947	781	550
NW-7	166	164	157	81	85	148	146	138	139
NW-8	26	43	27	27	26	28	27	36	27
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167
JRS-10	N.S.	563	554	395	576	694	553	594	592
JRS-11	N.S.	56	55	54	52	53	49	51	53
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36
Lowry	N.S.	N.S.	56	47	51	60	48	51	48
Torgesen	58	55	55	52	55	587	60	61	60
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not Sampled

Table 9 Page 2 of 2

SULFATE CONCENTRATIONS OVER TIME

AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS

NOVEMBER 1999 THROUGH MAY 2007

Well ID	Sulfate Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
A-1	11	6	6	7	8.0	<5	8
A-2	N.S.	43	N.S.	30	39.0	35	36
A-3	N.S.	N.S.	N.S.	N.S.	118.0	128	15
A-4	426	502	490	424	600.0	406	330
A-5	188	194	198	205	220.0	197	228
A-6	N.S.	N.S.	N.S.	N.S.	516.0	716	605
A-7	N.S.	N.S.	N.S.	N.S.	975.0	1,103	1,106
A-8	N.S.	N.S.	N.S.	N.S.	1132.0	1,081	931
A-9/A-9A	623	557	470	424	582.0	722	668
A-10	110	107	101	84	98.0	100	84
MF Well	N.S.	265	269	201	N.S	N.S.	N.S.
NW-1	731	610	429	436	N.S	N.S.	N.S.
NW-5	804	547	920	184	N.S	168	646
NW-7	142	137	109	111	148.0	154	134
NW-8	38	25	27	18	29.0	25	20
NW-9	N.S.	937	824	518	647.0	603	538
NW-10	194	233	199	151	154.0	144	145
JRS-10	560	549	384	345	424.0	522	521
JRS-11	55	49	59	44	60.0	47	44
Arr-Maz	34	30	31	26	33.0	30	31
Lowry	53	48	67	17	61.0	59	47
Torgesen	60	62	68	54	72.0	71	66
JRS 8			464	265	556.0	455	464
MW A			1,545	1,546	1121.0	1,025	708
MW B			1,185	1,027	784.0	1,093	579
A-11							188
A-12							33
MW05-1				19	27	24	25
MW05-2				36	49	51	48
MW05-3				67	69	65	69
MW05-4				20	28	30	31
MW05-5				105	70	57	63

NOTE: N.S. = Not Sampled

Table 10 Page 1 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Sodium Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.70
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140.00
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200.00
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.00
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103.00
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.00
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.00
JRS 8									
MW A					Wells not sampled until June 2005				
MW B									

Table 10 Page 2 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Sodium Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
A-1	5.87	6.57	6.06	6.7	6.1	6.99	6.9
A-2	N.S.	4.99	N.S.	5.1	4.6	4.72	6.9
A-3	N.S.	N.S.	N.S.	N.S.	26.9	27.97	31.6
A-4	63.00	108	102	133.0	106.0	72.8	72.3
A-5	17.80	19.0	13.7	18.3	19.5	20.25	21.7
A-6	N.S.	N.S.	N.S.	N.S.	279.0	340	265
A-7	N.S.	N.S.	N.S.	N.S.	569.0	640	549
A-8	N.S.	N.S.	N.S.	N.S.	532.0	627	576
A-9/A-9A	131	132	96	102.0	124.0	184	213
A-10	16.30	17.9	16.2	17.4	15.8	17.53	18.00
MF Well	N.S.	56.4	50.6	48.0	N.S.	N,S	N.S.
NW-1	80.30	116	70	108.0	N.S.	N.S.	N.S.
NW-5	277	223	300	63.0	N.S.	18.34	126
NW-7	12.0	11.5	12.4	11.5	12.3	13.13	14.0
NW-8	9.0	8.55	8.34	8.6	9.0	9.51	9.9
NW-9	N.S.	95.8	66.5	62.0	85.8	68.81	71.40
NW-10	12.0	12.3	13.7	12.0	10.4	11.98	12.9
JRS-10	100	92.3	72.9	86.0	73.6	100.20	124
JRS-11	7.0	34.1	8.4	7.3	7.7	8.16	8.5
Arr-Maz	5.75	6.37	7.00	6.5	6.4	7.39	7.28
Lowry	22.70	20.4	33.4	21.0	35.8	26.25	29.6
Torgesen	15.40	18.20	19.30	18.7	19.8	18.79	23.25
JRS 8			63.5	53.6	78.4	69.84	81.5
MW A			134.0	160.0	108.0	124	103
MW B			120.0	164.0	86.0	88.9	75.9
A-11							84.5
A-12							29.4
MW05-1				8.0	7.0	8.0	8.0
MW05-2				5.0	5.0	6.0	5.0
MW05-3				8.0	7.0	8.0	8.0
MW05-4				7.0	8.0	7.0	8.0
MW06-5				23.0	20.0	17.0	15.0

NOTE: N.S. = NOT Sampled

Table 11 Page 1 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Aluminum Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86
JRS 8					Wells not sampled until June 2005				
MW A									
MW B									

Table 11 Page 2 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH MAY 2007

Well ID	Aluminum Concentrations (mg/L)						
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
A-1	<0.03	<0.03	0.4	<0.03	<0.03	<0.03	<0.03
A-2	N.S.	0.14	N.S.	<0.03	<0.03	<0.03	<0.03
A-3	N.S.	N.S.	N.S.	N.S.	0.05	0.06	<0.03
A-4	0.31	0.22	<0.03	0.46	<0.03	<0.03	<0.03
A-5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
A-6	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03
A-7	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03
A-8	N.S.	N.S.	N.S.	N.S.	0.07	0.07	<0.03
A-9/A-9A	0.57	<0.03	<0.03	0.09	<0.03	<0.03	<0.03
A-10	<0.03	<0.03	<0.03	0.17	<0.03	0.03	<0.03
MF Well	N.S.	<0.03	<0.03	<0.03	N.S	N.S.	N.S.
NW-1	1.52	<0.03	0.13	<0.03	N.S	N.S.	N.S.
NW-5	<0.03	<0.03	<0.03	<0.03	N.S	<0.03	<0.03
NW-7	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	0.05
NW-8	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03
NW-9	N.S.	94.1	30.7	8.5	20.20	14.50	0.31
NW 10	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03
JRS-10	<0.03	0.76	0.04	<0.03	<0.03	<0.03	<0.03
JRS-11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Arr-Maz	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03
Lowry	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Torgesen	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
JRS 8			<0.03	<0.03	<0.03	0.05	<0.03
MW A			6.90	8.90	1.43	2.8	1.30
MW B			353	308	25.20	26.70	8.9
A-11							<0.03
A-12							<0.03
MW05-1				<0.03	<0.03	<0.03	<0.03
MW05-2				<0.03	<0.03	<0.03	<0.03
MW05-3				<0.03	<0.03	<0.03	<0.03
MW05-4				<0.03	<0.03	<0.03	<0.03
MW05-5				0.11	<0.03	<0.03	<0.03

Note: N.S. = not sampled

Agrium CPO Well Comparison, May 2007 Test Results

Table 12

Parameter mg/l	**Well No.s**					
	MW-05-5	A-3	A-6	Torgesen	A-11	A-12
TDS	542	928	2174	904	1122	720
Ortho P	0.77	0.94	22.4	0.08	4.2	<0.05
Potassium	3.4	5.7	20.4	5	11.8	5.2
Sodium	14.66	31.6	265	23.25	84.5	29.4
Total Nitrogen	2.3	2.7	30.7	41	12.3	1.1
Ammonia	<0.05	< 0.05	16.2	< 0.05	1.29	<0.05
Sulfate	63	150	605	66	188	33

Note 1: Wells A-3 and A-6 are between the original gypsum stack area and wells A-11 and 12

Note 2: Well MW-05-5 is located north of the spill limits and is considered to represent typical background ground water conditions in the gypsum stack area.

Torgesen Ranch Well
Historical Comparison

Table 12A

Sample Date	Torgesen Ranch Well sodium	sulfate	total P	nitrate
	mg/l	mg/l	mg/l	mg/l
11/1/99	16	58	n/a	n/a
11/1/01	15	55	0.11	14
11/1/02	16	60	0.07	25
5/1/03	15	61	0.08	27
5/1/04	15	60	0.08	35
10/1/04	18	62	0.06	33
6/1/05	19	68	0.11	38
10/1/05	19	54	0.10	39
6/1/06	20	72	0.11	52
12/1/06	19	71	0.17	39
1/3/07	19	n/a	0.23	n/a
1/8/07	22	71	0.08	40
1/15/07	22	73	0.06	40
1/22/07	18	72	0.06	42
1/29/07	19	71	0.07	40
2/5/07	17	71	0.06	41
2/19/07	16	72	0.07	41
2/12/07	17	71	0.08	41
2/26/07	16	72	0.07	41
3/5/07	15	71	0.07	39
3/12/07	17	68	0.07	39
3/19/07	16	62	0.10	35
3/26/07	17	65	0.09	37
4/2/07	17	65	0.10	40
4/9/07	17	63	0.08	40
4/16/07	18	67	0.07	41
4/23/07	17	68	0.08	41
4/30/07	17	67	0.08	40
5/7/07	18	70	0.08	43
5/14/07	16	68	0.07	41
5/23/07	23	66	0.08	41
6/11/07	16	65	0.08	40
6/18/07	18	64	0.09	38
6/25/07	18	67	0.20	39

Agrium CPO
Historical Comparison
Wells JRS-8 and 10

Table 13

Well JRS-8

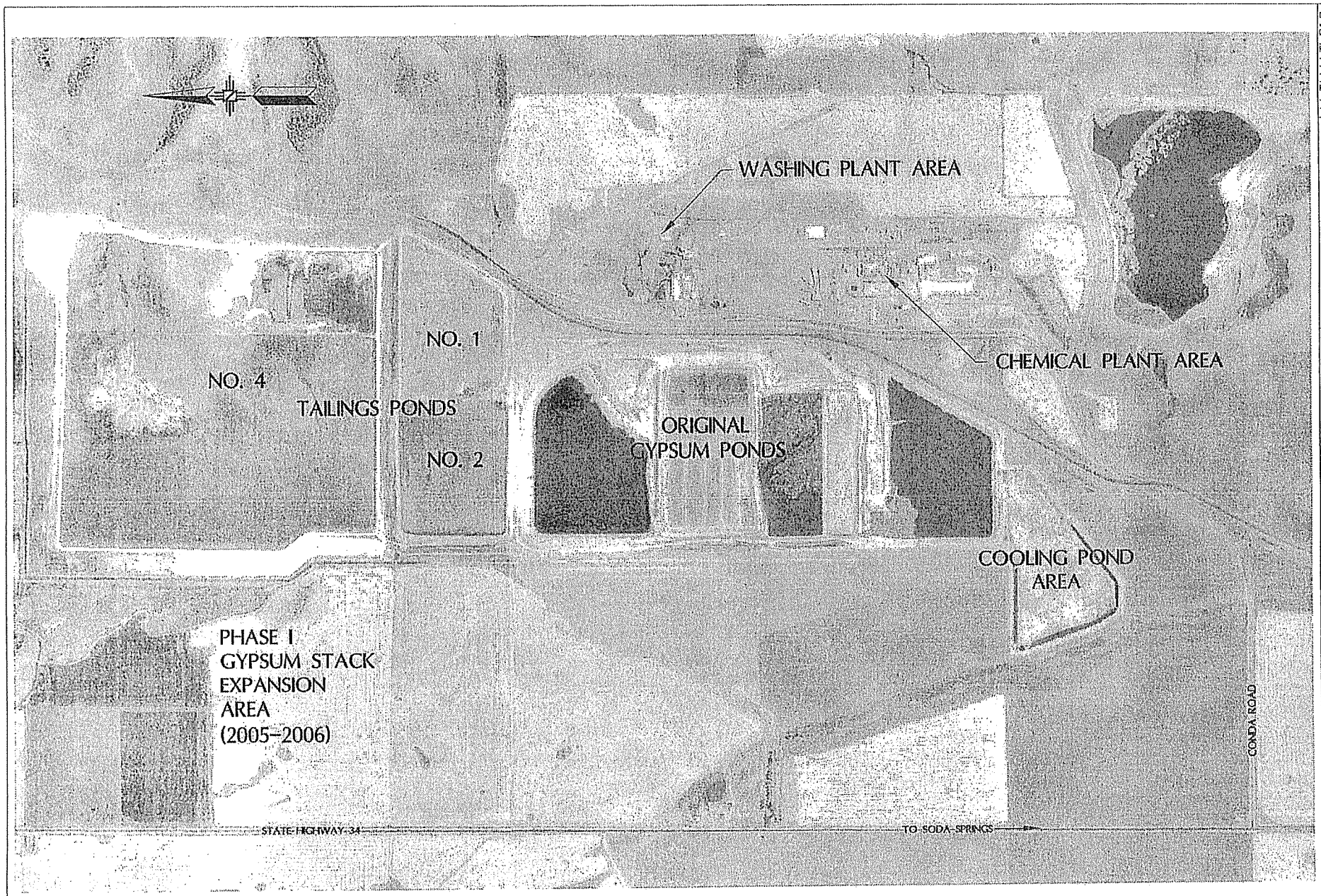
Parameter		June-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
				Date			
Ortho P	mg/l	ns	0.9	1.6	1.1	1.1	1.3
pH		ns	6.6	7.4	6.4	6.5	6.2
Conductivity	uS	ns	1573	1588	1654	1380	1558
TDS	mg/l	ns	1256	1166	1498	1202	1198

JRS-10

Parameter		June-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07
Ortho P	mg/l	11.5	5.6	8.7	6.4	9.6	9.7
pH		6.5	ns	7.1	6.1	6.7	6.2
Conductivity	uS	2010	1659	1792	1609	1707	1907
TDS	mg/l	1458	1274	1256	1366	1510	1508

Figures

NUW 005249



DATE 09-03-02
JOB # NUW0701P
DWG. BY ONT
REVISIONS
06/04
10/05 PAS
3/07 ONT
7/07 EJN
FILE: \\ P:\
NUW0701P\0-5\
PLANS\FIG1.DWG

PROJECT
MAY 2007
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

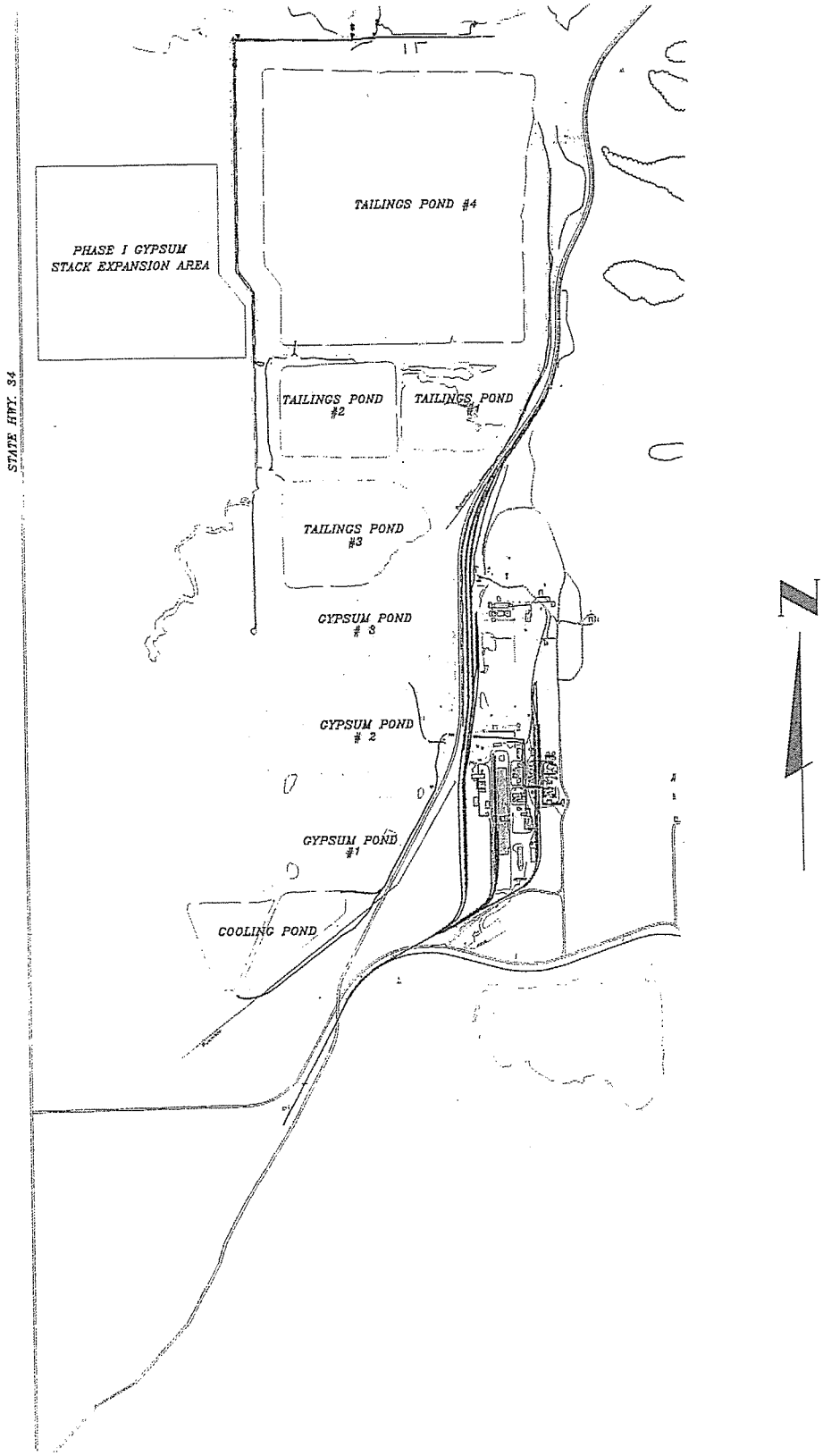
ENGINEERS INC

TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

NUW 005250



ENGINEERS INC

301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061

(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 7/07 EJN	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P

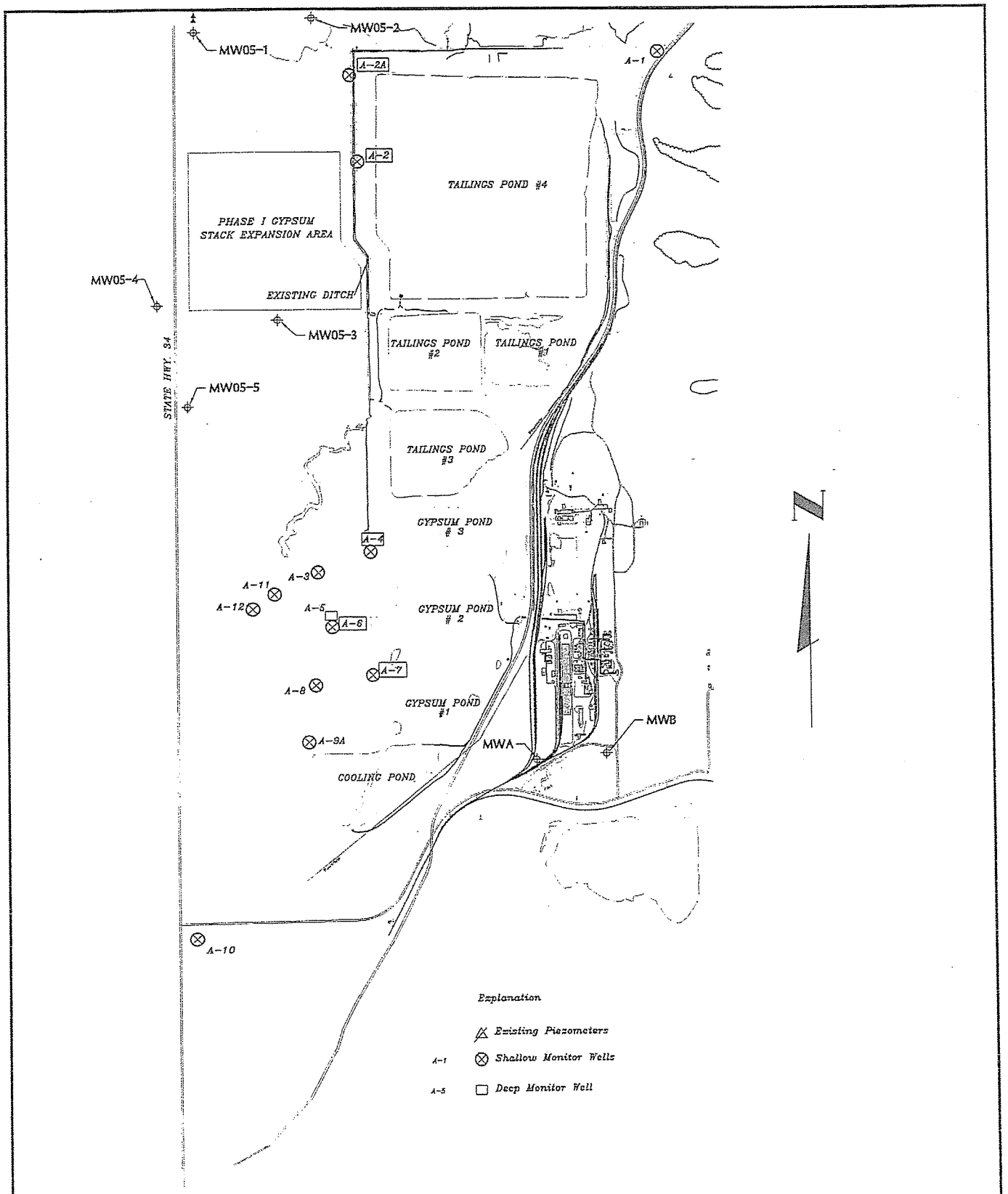


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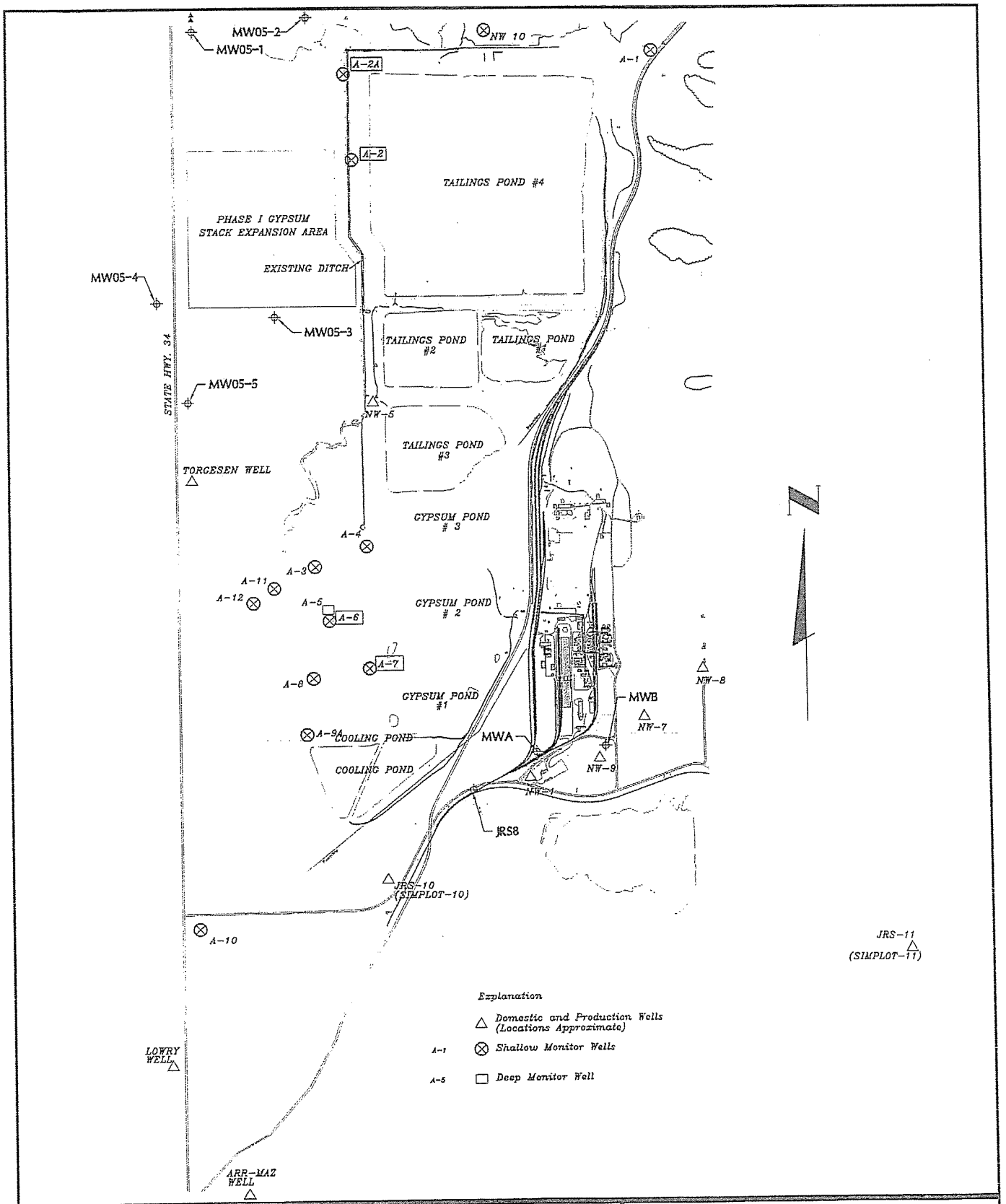
FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
MAY 2007
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 7/07 EJN	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P



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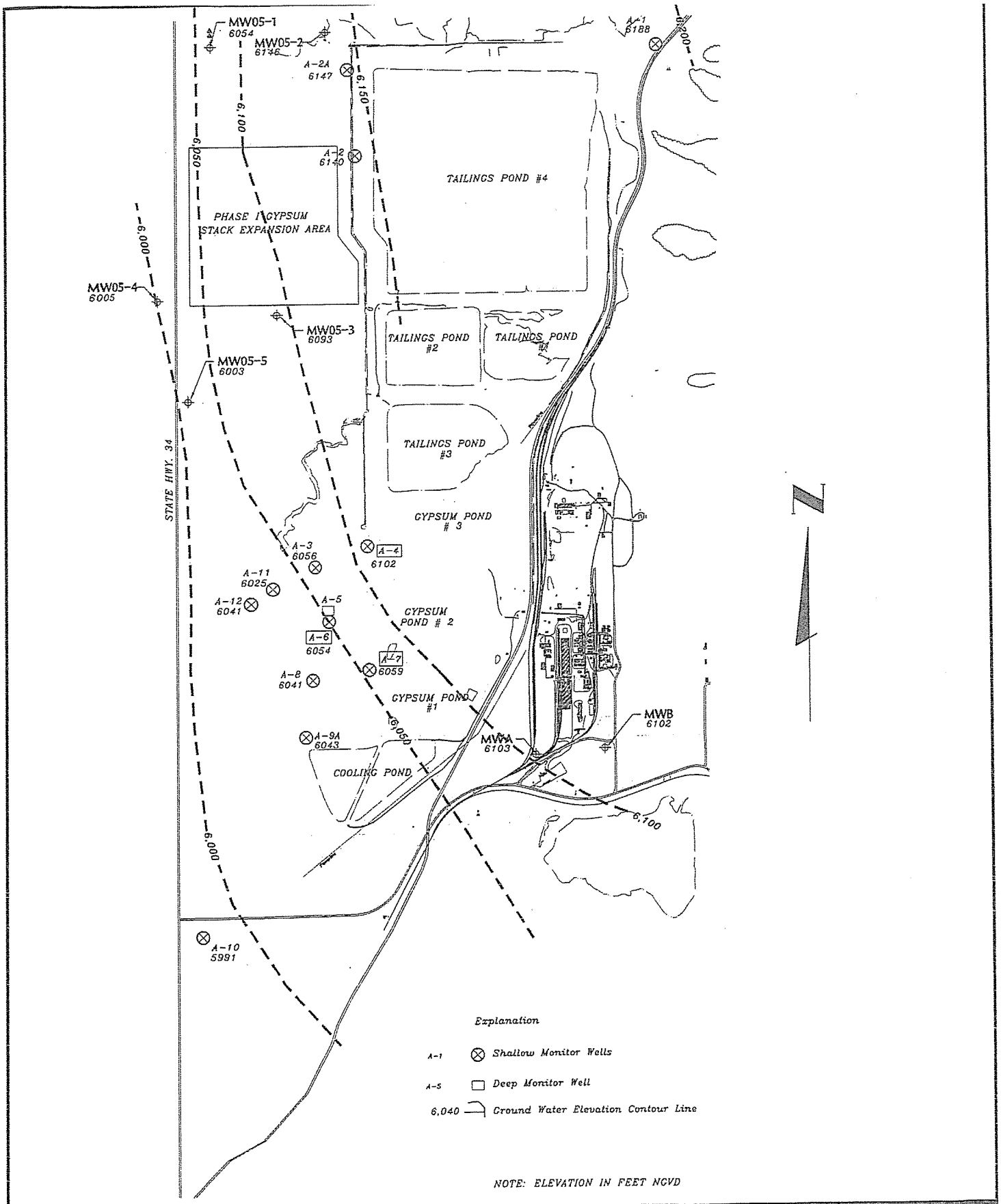
(505)538-5410 (FAX)

FIGURE 4
GROUND WATER SAMPLING LOCATIONS
MAY 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 7/07 EJN	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P



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(505)538-5410 (FAX)

FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
MAY 2007
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 7/07 EJN	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P

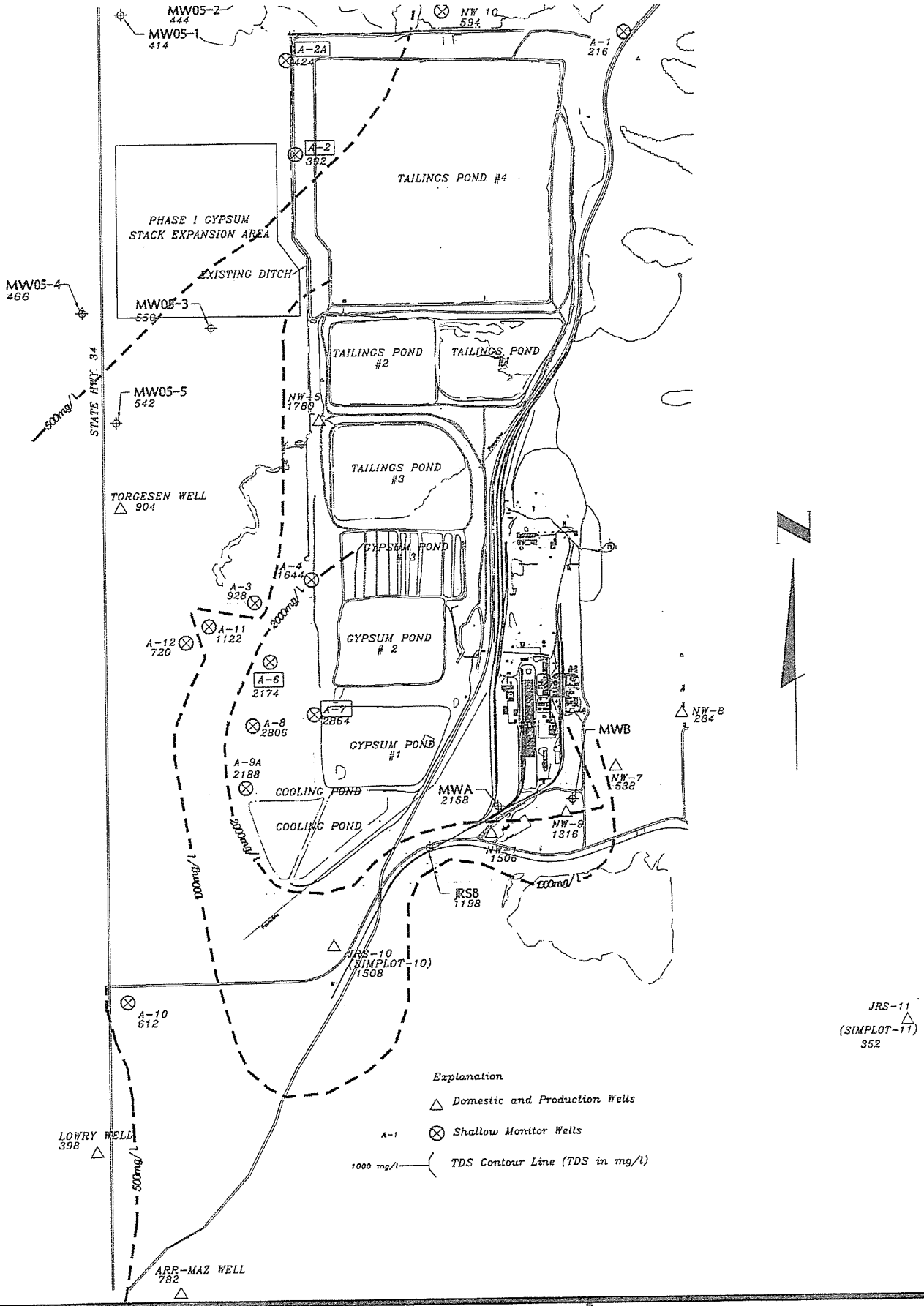

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FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-MAY 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 7/07 EJN	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P

NUW-005255

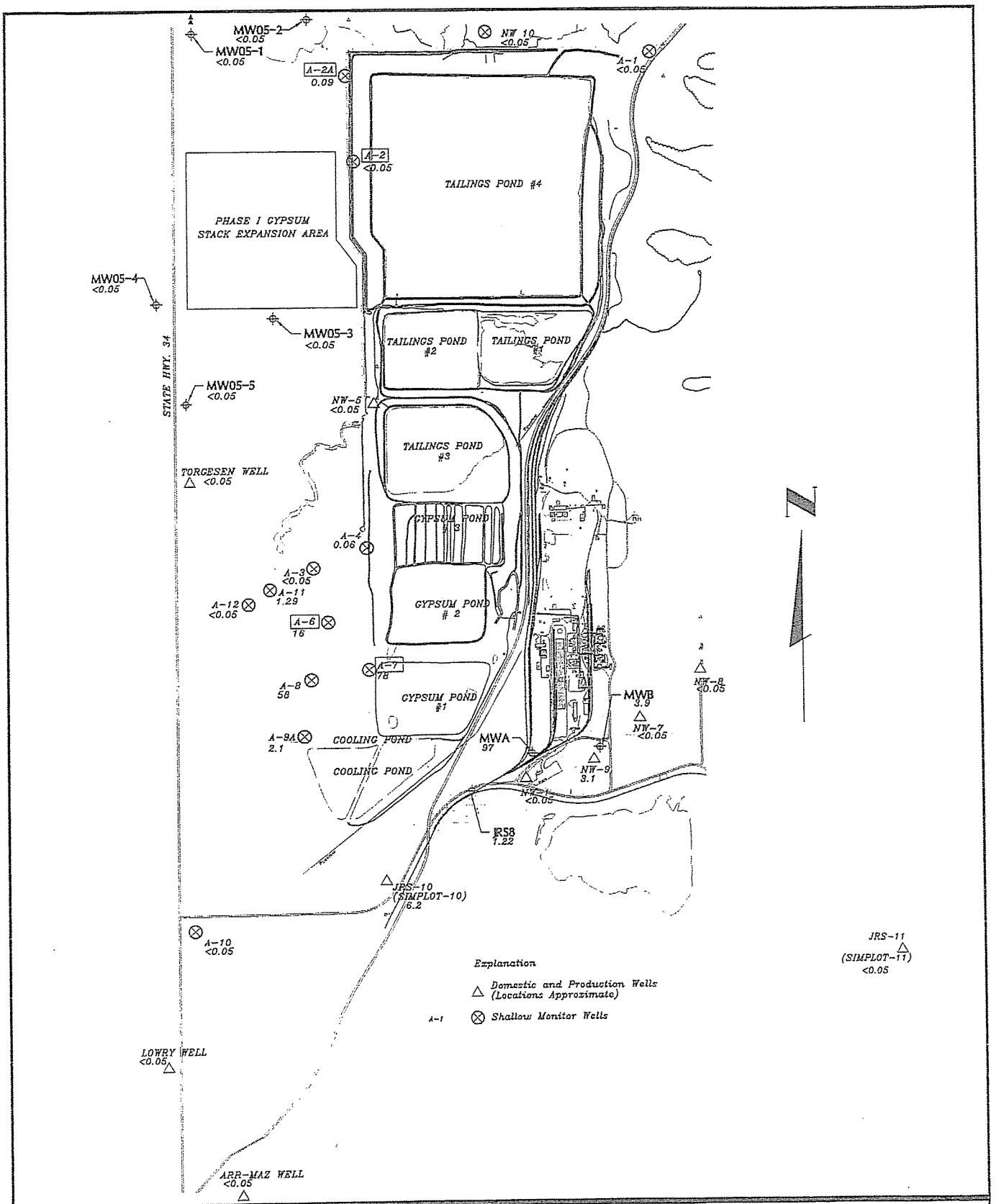

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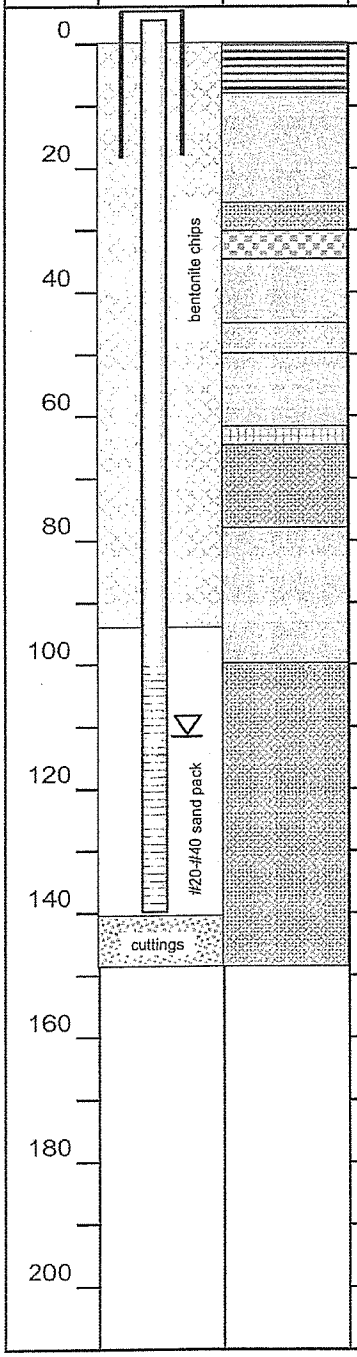
FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS-MAY 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 7/07 EJN	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0701P

Drilling Log

Hole No.: A-11	Project: Nu-West Industries Inc. / Agrium CPO
Date Started: 5/2/07	Location: Conda, Idaho
Date Completed: 5/3/07	Surface Elevation:
Logged by: Lori Robison	Depth to Water / Date: 112' on 5-3-07



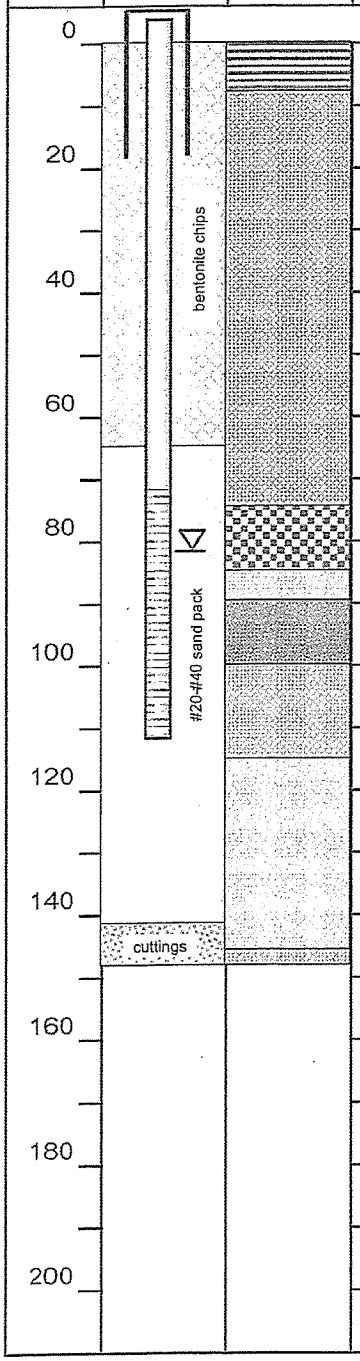
Depth	Sample	Description
0		
	x	Medium brown silty clay, slighltly moist (0-7.5')
20	x	Dark gray, hard basalt (7.5-25')
	x	Dark gray broken basalt with some reddish-brown cinders (25-30')
40	x	Dark gray broken basalt (30-35') Dark gray, hard basalt (35-45')
	x	Gray, hard basalt, with cinders and trace of clay (45-50')
60	x	Dark gray, hard basalt (50-62')
	x	Dark gray basalt with cinders and clay (62-65')
80	x	Dark gray and reddish brown basaltic cinders, vessicular (65-78')
	x	Gray, hard basalt (78-100')
100	x	
	x	Drak gray and reddish brown, vessicular basaltic cinders with brown fine to medium sand (100-148')
120	x	Water level 112' below ground level on 5-3-07
	x	
140	x	
160		
180		
200		

Loughlin Water Associates LLC

FIGURE 8

Drilling Log

Hole No.: A-12	Project: Nu-West Industries Inc. / Agrium CPO
Date Started: 5/10/07	Location: Conda, Idaho
Date Completed: 5/17/07	Surface Elevation:
Logged by: Lori Robison	Depth to Water / Date: 82' on 5-16-07



Depth	Sample	Description
0		
	x	Medium brown silty clay, slighltly moist (0-16')
	x	
20	x	Dark gray fractured basalt with some reddish-brown cinders and abundant fine sand (16-75')
	x	
40	x	
	x	
60	x	
	x	Black, hard, fractured basalt (75-85')
80	x	Water level 82' below ground level on 5-16-07 Gray basalt with clay and fine sand (85-90')
	x	Black basalt (90-100')
100	x	Medium brown basalt with clay and fine sand (100-115')
	x	
120	x	Gray hard basalt (115-145')
	x	
140	x	Brown basalt with clay and fine sand (145-148')
160		
180		
200		

Loughlin Water Associates LLC

FIGURE 9

APPENDIX A

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A-1

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite Offsite

TOTAL WELL DEPTH (feet) (a): 67

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 33.89

WATER COLUMN HEIGHT (feet) = (a) 67 - (b) 33.89 = (h) 33.11

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5.4

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 16.3

PUMPING RATE: 175.6 Hz

23.9 minutes

[Volume of Container (gallons)] 4 / 5.83 [Fill time (minutes)] = 0.68 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1600	6.96	478	12.4		Cloudy
2	1610	6.94	480	14.2		Slt Cloudy
3	1620	7.06	479	13.0		Slt Cloudy
4	1625	7.06	479	12.6		Slt Cloudy
5	1630	7.04	477	12.3		Clear
			475			
Sample	1635	7.06		12.6		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 50 ft

Signature of Sampling Personnel: Jason R Pattie Date 051707

NUW 005260

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A-2

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 30

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 17.22

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 17.22 = (h) 12.78

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 6.3

PUMPING RATE 263.5 Hz

[Volume of Container (gallons)] 4 / 1.25 [Fill time (minutes)] = 3.2 gallons/minute 2 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1755	7.39	737	5.8		clear
2	1800	7.43	733	5.8		clear
3	1805	7.38	733	5.9		clear
4						
5						
Sample	1810	7.40	732	5.9		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 25 ft
Water in west ditch
east ditch dry

Signature of Sampling Personnel: Tyson R Pattie Date 051707

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See mw05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A2A

DAY/DATE: 051707

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 168

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 13.91

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 13.51 = (h) 154.09

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 75.9

PUMPING RATE: 294.8 HZ

[Volume of Container (gallons)] 4 / 1.08 [Fill time (minutes)] = 3.7 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1705	7.35	784	7.8		clear
2	1710	7.41	794	7.8		clear
3	1715	7.31	817	8.1		clear
4	1720	7.28	781	8.2		clear
5	1725	7.30	812	8.2		clear
	1730	7.33	776	8.0		clear
	1735	7.36	788	8.0		clear
Sample	1740	7.40	788	8.0		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 25 ft
Running water in Ditch

Signature of Sampling Personnel: Tyson R Pattie Date 051707

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-3

DAY/DATE: 051807 Fri

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 108

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 93.78

WATER COLUMN HEIGHT (feet) = (a) 108 - (b) 93.78 = (h) 14.22

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 7

PUMPING RATE 245.9 HZ 5.4 gal/min

[Volume of Container (gallons)] 4 / 3.1 [Fill time (minutes)] = 1.3 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1240	5.86	1409	9.6		muddy
2	1245	5.78	1408	9.6		cloudy
3	1250	5.87	1405	9.7		cloudy
4						
5						
Sample	1255	5.76	1411	9.6		slt cloudy

SAMPLE DESCRIPTION:

NOTES: Pump set 100ft

Signature of Sampling Personnel: Jason R Pattie Date 051807

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A-4

DAY/DATE: 051807

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 115

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 47.36

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 47.36 = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 11.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 33.3

PUMPING RATE 275.5 HZ

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.67 gallons/minute 12.5 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1015	6.15	2390	8.5		Bubbles Cloudy
2	1020	6.02	2400	7.6		Bubbles Cloudy
3	1025	5.94	2450	7.5		slt cloudy
4	1030	5.97	2500	7.6		Bubbles slt cloudy
5						
Sample	1035	5.98	2520	7.5		Bubbles slt cloudy

SAMPLE DESCRIPTION:

NOTES: Pump set 70 ft

Signature of Sampling Personnel: Tyson R Patrie Date 051807

NUW 005264

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-5

DAY/DATE: 051807 Fri

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 213

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 85.54

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 85.54 = (h) 127.46

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 20.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 62.7

PUMPING RATE 356.9 Hz

[Volume of Container (gallons)] 4 / 1.22 [Fill time (minutes)] = 3.3 gallons/minute

19 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1345	6.10	1357	9.4		Clear
2	1350	6.20	1354	9.1		clear
3	1355	6.08	1330	9.3		Clear
4	1400	6.08	1313	9.4		Clear
5	1405	6.08	1308	9.4		Clear
Sample	1410	6.06	1297	9.4		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 150 ft

Signature of Sampling Personnel: Tyson R Pattie Date 051807

NUW 005265

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-6

DAY/DATE: 05 18 07

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite)

TOTAL WELL DEPTH (feet) (a): 119

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 96.11

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 96.11 = (h) 22.89

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 3.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 11.2

PUMPING RATE: 270.2 HZ

[Volume of Container (gallons)] 4 / 2.17 [Fill time (minutes)] = 1.8 gallons/minute 6.2 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1315	6.33	3300	10.1		cloudy
2	1320	6.23	3240	9.8		clear
3	1325	6.23	3190	9.7		clear
4						
5						
Sample	1330	6.25	3230	9.6		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 110

Signature of Sampling Personnel: Tyson R Pattie Date 05 18 07

NUW 005266

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A-7

DAY/DATE: 051807 Fri

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 121

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 91.48

WATER COLUMN HEIGHT (feet) = (a) 121 - (b) 91.48 = (h) 29.52

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 4.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 14.5

PUMPING RATE 289.4 H7

[Volume of Container (gallons)] 4 / 1.75 [Fill time (minutes)] = 2.3 gallons/minute 6.3 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1055	6.32	4300	14.0		Clear
2	1100	6.43	4340	14.1		Slt cloudy
3	1105	6.46	4330	14.1		Slt cloudy
4						
5						
Sample	1110	6.44	4340	14.1		Slt cloudy

SAMPLE DESCRIPTION:

NOTES: Pump set 110 ft

Signature of Sampling Personnel: Jason R Pattie

Date 051807

NUW 005267

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-8

DAY/DATE: 051807 Fri

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

TOTAL WELL DEPTH (feet) (a): 128

GROUND WATER ELEVATION (feet NGVD): _____

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 107.36

WATER COLUMN HEIGHT (feet) = (a) 128 - (b) 107.36 = (h) 20.64

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 10.2

PUMPING RATE 285.4 Hz 5.1 min

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1205	6.43	4120	13.6		muddy
2	1210	6.52	4240	12.6		cloudy
3	1215	6.42	4240	12.6		slt cloudy
4						
5						
Sample	1220	6.44	4250	12.6		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 120 ft

Signature of Sampling Personnel: Jason R Pattie Date 051807

NUW 005268

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See A-10		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-9A

DAY/DATE: 05 18 07

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

TOTAL WELL DEPTH (feet) (a): 151

GROUND WATER ELEVATION (feet NGVD): _____

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 102.96

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 102.96 = (h) 48.04

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 7.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 23.7

PUMPING RATE 320.4 Hz

[Volume of Container (gallons)] 4 / 1.28 [Fill time (minutes)] = 3.1 gallons/minute 7.6 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1130	6.43	2810	9.5		Slt cloudy & Sand
2	1135	6.49	3060	9.3		Slt cloudy
3	1140	6.36	3090	9.2		clear
4						
5						
Sample	1145	6.35	3080	9.2		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 125 ft

Signature of Sampling Personnel: Jayson R Pattie Date 05 18 07

NUW 005269

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION	
DATE/TIME	051707 2015
CALIBRATION STANDARDS & METERS READINGS	
pH (s.u.)	4 4.00 7 7.02 10 10.06
Conductance (umhos/cm)	1418
Turbidity (NTU)	
D.O. (mg/L)	100%
@ 100% air	Clear Sunny

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: A-10

DAY/DATE: 051807 Fri

PERSONNEL: RD TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 199

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 133.10

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 133.10 = (h) 65.90

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 32.4

PUMPING RATE 315.6 Hz

[Volume of Container (gallons)] 4 / 1.72 [Fill time (minutes)] = 2.3 gallons/minute 14.1 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0915	7.21	957	9.7		Muddy
2	0920	7.21	959	9.5		Cloudy
3	0925	7.21	961	9.5		Slt Cloudy
4	0930	7.22	957	9.7		Slt Cloudy
5	0935	7.19	956	9.5		Slt Cloudy
Sample	0940	7.19	960	9.6		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 165ft

Signature of Sampling Personnel: Jordan R Pattee Date 051807

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-11

DAY/DATE: 051907 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 140

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 120.83

WATER COLUMN HEIGHT (feet) = (a) 140 - (b) 120.83 = (h) 19.17

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.14

MINIMUM PURGE VOLUME (gallons)= (wv) X ~~3~~ 10 = 31.4

PUMPING RATE 278.45 HZ

[Volume of Container (gallons)] 4 / 3 [Fill time (minutes)] = 1.33 gallons/minute 23.6 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1130	6.22	1441	9.5		92
2	1140	6.21	1436	9.5		81
3	1150	6.45	1375	12.3		120
4	1200	6.17	1402	11.5		62
5	1210	6.17	1387	11.4		38
	1220	6.20	1395	11.6		41
	1230	6.31	1377	13.2		25
Sample						

SAMPLE DESCRIPTION:

NOTES: Pump set 135 ft
slow to recover.

Signature of Sampling Personnel: Ry

Date 051907

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	A-11
DAY/DATE	052307 WED
PERSONNEL	RP DDP
WELL DIAMETER (inches) (d)	2

EQUIPMENT CALIBRATION

DATE/TIME See Arr Mar

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

TOP OF CASING ELEVATIN (feet NGVD) _____

WELL TYPE Onsite (Offsite)

TOTAL WELL DEPTH (feet) (a) 140

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD) _____

DEPTH TO WATER (feet): (b) 121.71

WATER COLUMN HEIGHT (feet) = (a) 140 - (b) 121.71 = (h) 18.29

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 3.0

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 9.0

PUMPING RATE 283.21 HZ

[Volume of Container (gallons)] 4 / 3 [Fill time (minutes)] = 1.33 gallons/minute 6.8 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1100	6.19	1763	8.4		MUDDY
2	1105	6.08	1760	8.6		SLT CLOUDY
3	1110	6.10	1760	8.7		SLT CLOUDY
4						
5						
Sample	1115	6.12	1760	8.7		SLT CLOUDY

125

SAMPLE DESCRIPTION: Recovery - fair

NOTES: pump set 135 ft

Signature of Sampling Personnel: Rg Date 052307

NUW 005272

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-12

DAY/DATE: 05 19 07 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite (Offsite circled) Monitor (Monitor circled) Domestic Production

DEPTH TO WATER (feet): (b) 82.26

WATER COLUMN HEIGHT (feet) = (a) 112 - (b) 82.26 = (h) 29.74

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 4.9

MINIMUM PURGE VOLUME (gallons)= (wv) X ~~8~~ 10 = 49

PUMPING RATE 243.8 Hz

[Volume of Container (gallons)] 4 / 2.67 [Fill time (minutes)] = 1.5 gallons/minute 32.7 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1305	7.28	915	9.2		60
2	1315	7.28	980	9.5		150
3	1325	7.30	994	9.9		145
4	1335	7.30	996	10.0		66
5	1345	7.34	992	12.3		58
	1355	7.31	995	12.5		28
	1405	7.26	1002	12.1		28
Sample						

SAMPLE DESCRIPTION:

NOTES: Pump set 100 ft Well slow to recover.

Signature of Sampling Personnel: RP Date 051907

NUW 005273

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See Arr Mar		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-12

DAY/DATE: 052307 WED

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite)

TOTAL WELL DEPTH (feet) (a): 112

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 83.68

WATER COLUMN HEIGHT (feet) = (a) 112 - (b) 83.68 = (h) 28.32

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 4.64

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 13.9

PUMPING RATE: 246.74 Hz

[Volume of Container (gallons)] 4 / 5.75 [Fill time (minutes)] = 0.70 gallons/minute 19.9 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0935	7.10	1163	8.1		MUDDY
2	0940	7.12	1201	8.2		SLT MUDDY
3	0945	7.19	1217	8.3		SLT MUD
4	0950	7.14	1212	8.3		CLOUDY
5	0955	7.13	1202	8.3		CLOUDY
	1000	7.16	1210	8.3		CLOUDY
Sample	1005	7.15	1209	8.3		SLT CLOUDY

126

SAMPLE DESCRIPTION:

NOTES: NOT MUCH RECHARGE pump set 105 ft Rest pump set 105 ft

Signature of Sampling Personnel: Ry

Date 052307

NUW 005274

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See NW-9		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW A

DAY/DATE: 051907 Sat

PERSONNEL: DP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 52.49

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 52.49 = (h) 67.51

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 11.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 33.3

PUMPING RATE 260.1

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.6 gallons/minute 12.8 gal/min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0930	5.58	3280	10.4		Cloudy/Green
2	0935	5.61	3310	10.4		Cloudy/Green.
3	0940	5.61	3320	10.4		Cloudy/Green
4	0945	5.64	3330	10.4		Cloudy/slt Green.
5						
Sample	0950	5.62	3330	10.5		Cloudy green.

SAMPLE DESCRIPTION:

NOTES: Pump set 80 ft

Signature of Sampling Personnel: Jason R Pattie Date 051907

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See NW-9		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW B

DAY/DATE: 05 19 07 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 60.35

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 60.35 = (h) 59.65

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 29.4

PUMPING RATE 245.6 Hz

[Volume of Container (gallons)] 4 / 2.25 [Fill time (minutes)] = 1.78 gallons/minute

16.5 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0850	6.20	1254	11.7		Clear
2	0855	6.22	1252	11.8		clear
3	0900	5.95	1253	11.9		Clear
4	0905	5.82	1288	11.9		Clear
5	0910	5.69	1301	12.0		clear
Sample	0915	5.50	1327	12.0		Clear

SAMPLE DESCRIPTION: White ppt on pump - when removed. Pump slow going down well casing.

NOTES: Pump set 80 ft

Signature of Sampling Personnel: Tyson R Pattie Date 05 19 07

NUW 005276

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: MW05-1

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 265

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 105.81

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 105.81 = (h) 1059.19

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 26.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 78.3

PUMPING RATE: 349.0 Hz 20 m.h

[Volume of Container (gallons)] 4 / 1.05 [Fill time (minutes)] = 3.8 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1415	7.41	739	8.5		Clear
2	1420	7.53	745	8.5		clear
3	1425	7.56	744	8.5		clear
4	1430	7.59	742	8.5		Clear
5	1435	7.58	746	8.5		clear
	1440	7.60	742	8.4		Clear
	1445	7.58	745	8.4		clear
Sample	1450	7.58	750	8.3		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 125 ft

Signature of Sampling Personnel: Jason R Pattie Date 051707

NUW 005277

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION: MW05-1

WELL ID: Duplicate

DAY/DATE: 051707

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 265

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite / Offsite (Offsite circled)

Monitor / Domestic / Production (Monitor circled)

DEPTH TO WATER (feet): (b) 105.81

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 105.81 = (h) 159.19

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 26.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 78.3

PUMPING RATE: 349.0 Hz

[Volume of Container (gallons)] 4 / 1.05 [Fill time (minutes)] = 3.8 gallons/minute 20min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1415	7.41	739	8.5		clear
2	1420	7.53	745	8.5		clear
3	1425	7.56	744	8.5		clear
4	1430	7.59	742	8.5		clear
5	1435	7.58	740	8.5		clear
	1440	7.60	742	8.4		clear
	1445	7.58	745	8.4		clear
Sample	1450	7.58	750	8.3		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 125ft

Signature of Sampling Personnel: Jeffrey R Pattie

Date

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION	
DATE/TIME	051607 1849
CALIBRATION STANDARDS & METERS READINGS	
pH (s.u.)	4 4.00 7 7.02 10 10.06
Conductance (umhos/cm)	1418
Turbidity (NTU)	
D.O. (mg/L)	100%
@ 100% air	Clear Sunny

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-2

DAY/DATE: 051707 Thur

PERSONNEL: IZP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

TOTAL WELL DEPTH (feet) (a): 97

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 14.38

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 14.38 = (h) 82.62

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 40.6

PUMPING RATE 247.6 HZ 14 min

[Volume of Container (gallons)] 4 / 1.37 [Fill time (minutes)] = 2.9 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0945	7.37	819	8.0		Slt turb
2	0950	6.76	822	7.8		Clear
3	0955	6.93	821	7.8		Clear
4	1000	6.77	817	7.8		Clear
5	1005	6.70	828	7.8		Clear
Sample	1010	6.85	821	7.8		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 30ft

Signature of Sampling Personnel: Jason R Pattie Date 051707

NUW 005279

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SEE MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-3

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 238

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD): _____

DEPTH TO WATER (feet): (b) 59.25

WATER COLUMN HEIGHT (feet) = (a) 238 - (b) 59.25 = (h) 178.75

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 29.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 87.9

PUMPING RATE: 277.0 Hz

[Volume of Container (gallons)] 4 / 1.62 [Fill time (minutes)] = 2.5 gallons/minute 35 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1035	7.08	925	7.8		muddy
2	1045	7.57	955	7.4		slt muddy
3	1055	7.50	954	7.5		clear
4	1105	7.55	956	7.5		clear
5	1110	7.56	956	7.5		clear
	1115	7.56	955	7.4		clear
Sample	1120	7.57	958	7.5		clear

SAMPLE DESCRIPTION:

NOTES: Pump set 85ft

Signature of Sampling Personnel: Tyson R Pattie Date 051707

NUW 005280

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See mw05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: mw05-4

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 169.00

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 169 = (h) 91

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 14.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 44.8

PUMPING RATE 343.3 Hz

[Volume of Container (gallons)] 4 / 1.67 [Fill time (minutes)] = 2.4 gallons/minute 19 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1150	6.83	827	9.1		Slt muddy
2	1155	7.54	846	8.2		Slt muddy
3	1200	7.60	847	8.2		Slt muddy
4	1205	7.64	832	8.2		Slt Cloudy
5	1210	7.67	831	8.1		Clear
Sample	1215	7.67	828	8.1		Clear

SAMPLE DESCRIPTION:

NOTES: Pump set 200ft

Signature of Sampling Personnel: Jeffrey R Pattine Date 051707

NUW 005281

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See MW05-2		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: MW05-5

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite (Offsite circled) Monitor (Monitor circled) Domestic Production

DEPTH TO WATER (feet): (b) 175.21

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h) 84.79

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 41.7

PUMPING RATE 348.9 Hz

[Volume of Container (gallons)] 4 / 1.71 [Fill time (minutes)] = 2.3 gallons/minute 18 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1230	7.09	934	7.9		Clear
2	1235	7.07	933	7.7		Clear
3	1240	7.01	944	7.7		Clear
4	1245	6.99	937	7.7		
5	1250	6.99	942	7.6		
Sample	1255	7.01	940	7.7		

SAMPLE DESCRIPTION:

NOTES: Pump set 200ft

Signature of Sampling Personnel: Tyson R Pattie Date 051707

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See NW-5		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-5

DAY/DATE: 051907 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 101.2

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1040	6.51	1555	16.5		slt cloudy
2						
3						
4						
5						
Sample	1045	6.47	1555	16.5		slt cloudy

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Jason R Puttie Date 051907

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	NW-7
DAY/DATE	052207 TUE
PERSONNEL	RP DDP
WELL DIAMETER (inches) (d)	
TOP OF CASING ELEVATIN (feet NGVD)	
TOTAL WELL DEPTH (feet) (a)	
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME SEE ATTACH

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SNOW		

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 121

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 2.0 [Fill time (minutes)] = 2.0 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0855	7.69	838	8.8		RUSTY → CLEAR
2	0900	7.70	831	8.8		CLEAR
3	0905	7.78	839	8.8		CLEAR
4	0910	7.77	834	8.8		CLEAR
5						
Sample	0915	7.76	833	8.8		CLEAR

SAMPLE DESCRIPTION:

95 PSI

NOTES:

Signature of Sampling Personnel: RP Date 052207

NUW 005284

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID NW-8

DAY/DATE 052207 TUE

PERSONNEL RP DDP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

EQUIPMENT CALIBRATION

DATE/TIME SEE Arr Maz

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air SNOW

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 21.9

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 2.0 [Fill time (minutes)] = 2.0 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0930	7.91	481	10.0		Clear
2	0935	7.91	479	10.0		Clear
3	0940	7.91	480	10.0		clear
4	0945	7.94	481	10.0		clear
5						
Sample	0950	7.90	480	10.0		clear

SAMPLE DESCRIPTION:

28.4 PSI

NOTES:

Signature of Sampling Personnel: RP

Date 052207

NUW 005285

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION	
DATE/TIME	051807 1735
CALIBRATION STANDARDS & METERS READINGS	
pH (s.u.)	4 3.99 7 7.04 10 10.11
Conductance (umhos/cm)	1418
Turbidity (NTU)	
D.O. (mg/L) 100%	
@ 100% air	Sunny / slt Cloudy

CLIENT: Agrium CPO/Engineer Inc

SITE NAME: Conda phosphate operations

SITE LOCATION: Soda Springs / Idaho

WELL ID: NW-9

DAY/DATE: 051907 SAT

PERSONNEL: RP TP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 103.0

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0815	6.23	1533	9.6		Cloudy
2	0820	6.23	1510	9.6		Cloudy
3	0825	6.18	1484	9.7		Cloudy
4	0830	6.31	1486	9.6		Cloudy
5						
Sample	0835	6.23	1466	9.6		CLOUDY

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Jayson R Pattie Date 05-19-07

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO

SITE NAME: Agrium Soda Springs, Idaho

SITE LOCATION:

WELL ID: NW-10

DAY/DATE: 051707 Thur

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

DATE/TIME:

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 160

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1530	7.40	988	9.9		Rusty
2	1535	7.37	975	8.8		clear
3	1540	7.36	986	8.6		clear
4						
5						
Sample	1545	7.41	983	8.7		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Tyson R Pattie Date 051707

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See ArrMar		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	snow		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 8

DAY/DATE: 052207

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 56.32

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 70

PUMPING RATE 308.53 Hz

[Volume of Container (gallons)] 4 / 1.6 [Fill time (minutes)] = 2.5 gallons/minute 28 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1120	6.10	1659	8.8		clear
2	1130	6.31	16666	9.1		clear
3	1140	6.23	1677	9.1		clear
4	1150	6.21	1685	9.2		clear
5						
Sample	1200	6.22	1684	9.2		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 80 ft

Signature of Sampling Personnel: RP

Date 052207

NUW 005288

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See Arr Maz		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 10

DAY/DATE: 052207

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 0.4 [Fill time (minutes)] = 10 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1035	6.52	2240	9.3		rusty
2	1040	6.50	2250	9.2		clear
3	1045	6.49	2190	9.3		clear
4						
5						
Sample	1050	6.50	2240	9.3		clear

SAMPLE DESCRIPTION:

44# psi

NOTES:

Signature of Sampling Personnel: [signature] Date 052207

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See Arr Maz		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 11

DAY/DATE: 052207

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic (Production)

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 1.25 [Fill time (minutes)] = 3.2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1010	7.68	597	8.1		clear
2	1015	7.72	595	8.6		clear
3	1020	7.79	596	8.6		Clear
4						
5						
Sample	1025	7.80	596	8.6		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Ry Date 052207

NUW 005290

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION	
DATE/TIME	052107
CALIBRATION STANDARDS & METERS READINGS	
pH (s.u.)	4 4.01 7 7.00 10 9.99
Conductance (umhos/cm)	1413
Turbidity (NTU)	
D.O. (mg/L) 100%	
@ 100% air	CLOUDY - SNOW

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Arr Maz

DAY/DATE: 052207 TUE

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 0.37 [Fill time (minutes)] = 10.8 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0820	6.92	1306	16.6		CLEAR
2	0825	6.86	1307	16.8		CLEAR
3	0830	6.85	1310	16.7		CLEAR
4	0835	6.85	1310	16.6		CLEAR
5						
Sample	0840	6.85	1310	16.6		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 052207

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See Arr Maz		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SNOW		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Lowery

DAY/DATE: 052207

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1220	7.69	699	8.4		clear
2	1225	7.54	689	8.6		clear
3	1230	7.42	688	8.7		clear
4						
5						
Sample	1235	7.44	689	8.7		Clear

SAMPLE DESCRIPTION:

Well running 52 psi

NOTES:

Signature of Sampling Personnel: RP

Date 052207

NUW 005292

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Torgesen

DAY/DATE: 052307 WED

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

EQUIPMENT CALIBRATION

DATE/TIME: SEE ArrMaz

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air Sunny

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 0.66 [Fill time (minutes)] = 6.1 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1020	7.43	1419	7.3		CLEAR
2	1025	7.30	1409	7.4		clear
3	1030	7.27	1414	7.3		Clear
4						
5						
Sample	1035	7.30	1419	7.4		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 052307

NUW 005293

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	See Arr Maz		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Equip Blank

DAY/DATE: 052307 WED

PERSONNEL: RP DDP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	1200					

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP

Date 052307

APPENDIX B

Appendix B Page 1 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through May 2007

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			11/24/1999	10/25/2000	4/19/2001	7/31/2001	11/11/2001	6/10/2002	10/28/2002	5/6/2003	10/28/03
A-1	6,221.71	6,155.01	6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46
A-2	6,156.75	6,126.55	6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09	
A-3	6,149.77	6,041.77	6,068.35	6,050.29	6,053.88	6,042.97		6,054.70			
A-4	6,149.83	6,034.43	6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68
A-5	6,150.42	5,937.42	6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31
A-6	6,150.18	6,031.08	6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56	
A-7	6,150.47	6,029.27	6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56
A-8	6,148.99	6,021.89	6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65		
A-9/A-9A	6,146.25	5,995.25	6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09
A-10	6,124.25	5,925.15							5,985.16	5,986.58	5983.11

NUW 005296

Appendix B Page 2 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through May 2007

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)						
			5/4/2004	10/25/2004	6/29/2005	10/29/2005	Jun-06	Dec-06	May-07
A-1	6,221.71	6,155.01	6188.15	6186.81	6189.7	6190.7	6189.0	6190.7	6187.8
A-2	6,156.75	6,126.55		6,134.7	6127.0	6146.0	6144.9	6144.8	6139.6
A-3	6,149.77	6,041.77					6060.4	6062.8	6056.0
A-4	6,149.83	6,034.43	6,063.33	6,057.48	6062.4	6062.8	6111.5	6111.5	6102.4
A-5	6,150.42	5,937.42	6,033.40	6,030.12	6032.4	6029.2	6067.0	6066.9	6064.9
A-6	6,150.18	6,031.08			6033.4	6031.9	6044.2	6054.2	6054.1
A-7	6,150.47	6,029.27	6,029.60				6063.8	6058.5	6059.0
A-8	6,148.99	6,021.89					6037.0	6035.0	6041.6
A-9/A-9A	6,146.25	5,995.25	6,011.37	6,009.79	6011.4	6010.4	6039.7	6036.3	6043.3
A-10	6,124.25	5,925.15	5,985.20	5,982.45	5988.3	5983.3	5992.0	5988.3	5991.2
MW05-1							6057.6	6049.2	6054.2
MW05-2							6144.3	6147	6145.6
MW05-3							6104	6104.5	6092.7
MW05-4							6002	6003	6005
MW05-5							5999.8	6002.2	6002.8
MWA						6087.7	6103.8	6101.8	6103.3
MWB						6089.4	6103.2	6101.7	6102.1

APPENDIX C

Dates submitted
Date Reported 6/

10507-6378	10507-6381	10507-6374	10507-6303	10507-6372	10507-6373	10507-6304	10507-6287	10507-6376	10507-6279	10507-6284
JRS11	TORGESEN	ARRMAZ	NW-5	NW7	NW8	NW9	NW10	JRS8	DUP	A-1
5/22/07 10:25	5/23/07 10:35	5/22/07 8:40	5/19/07 10:45	5/22/07 9:50	5/22/07 9;50	5/19/07 8:35	5/17/07 15:45	5/22/07 12:00	5/17/07 14:50	5/17/07 16:35
<0.03	<0.03	<0.03	<0.03	0.05	<0.03	0.31	<0.03	<0.03	<0.03	<0.03
<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
<0.005	<0.005	<0.005	0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005
<0.05	0.08	0.11	0.06	0.14	0.14	<0.05	0.12	<0.05	0.07	0.06
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
102	186	236	268	128	69	198	134	238	92	71
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.039	<0.002	<0.002	<0.002	<0.002
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	0.35	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05
<0.003	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1.2	5.0	5.4	18.2	5.3	4.8	7.1	3.0	8.4	2.6	1.5
16.1	85.0	68.9	104	35.9	19.3	86.2	61.4	66.0	44.7	20.2
<0.01	<0.01	<0.01	0.21	0.01	<0.01	1.20	0.60	0.42	<0.01	<0.01
<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0.028	<0.003	<0.003	0.024	0.019	<0.003	0.013	<0.003	0.012	<0.003	<0.003
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1.99	0.06	0.23	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.09	<0.05	1.22	<0.05	<0.05
245	434	770	623	266	217	126	392	280	378	217
245	434	770	623	266	217	126	392	280	378	217
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
12	60	6	27	19	11	52	9	43	7	17
<0.5	<0.5	0.6	<0.5	<0.5	<0.5	19.2	<0.5	0.7	<0.5	<0.5
0.12	0.08	<0.05	13.8	0.28	0.08	78	0.06	1.3	<0.05	0.06
<0.05	0.08	<0.05	10.9	0.07	<0.05	63	<0.05	1.3	<0.05	<0.05
1.4	41	<1	10.2	3.2	2.6	11.2	<1.0	14.7	1.9	<1.0
1.4	41.0	<0.5	10.2	3.2	2.6	15.0	<0.5	16.7	1.9	0.9
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8	<0.5	2.0	<0.5	<0.5
8.51	23.25	7.28	126	14.04	9.87	71.4	12.87	81.5	7.52	6.93
574	422	1261	6360	382	463	1581	462	1558	643	283
44	66	31	646	134	20	538	145	464	25	8
352	**904**	**782**	**1780**	**538**	284	**1316**	**594**	**1198**	408	246
<2	2	<2	50	2	<2	183	7	3	2	7
7.4	7.2	6.9	6.4	7.6	7.8	6.4	7.5	6.2	6.9	6.4
2.2	1.2	7.8	2.4	2.0	1.4	2.0	1.1	2.2	1.4	8.6
3.3	9.6	8.3	18.8	5.1	2.9	17.9	2.5	7.0	2.8	2.6

NUW 00020

ion normal for sample type and methodology
express or implied, including warranty of
dice work performed must be governed

-6297	10507-6298	10507-6300	10507-6301	10507-6299	10507-6302	11206-4848	10507-6305	10507-6306	10507-6278	10507-6280	10507-6281	10507-6282	10507-6283	10507-
-5	A-6	A-8	A-9A	A-7	A-10	Equip Blank	MWA	MWB	MW05-1	MW05-2	MW05-3	MW05-4	MW05-5	LOW
7 14:10	5/18/07 13:30	5/18/07 12:20	5/18/07 11:45	5/18/07 11:10	5/18/07 9:40	5/23/07 12:00	5/19/07 9:50	5/19/07 9:15	5/17/07 14:50	5/17/07 10:10	5/17/07 11:20	5/17/07 12:15	5/17/07 12:55	5/22/07
.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	1.27	8.92	<0.03	<0.03	<0.03	<0.03	<0.03	<0.
003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.
005	0.012	0.016	<0.005	0.030	<0.005	<0.005	0.012	0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.
06	0.20	0.18	0.12	<0.05	0.06	<0.05	<0.05	<0.05	0.07	0.08	0.09	0.05	0.08	<0.
002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.
96	337	241	397	184	149	<1	258	155	97	105	122	106	126	8
002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.020	0.117	<0.002	<0.002	<0.002	<0.002	<0.002	<0.
.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.51	<0.05	0.49	<0.05	0.11	<0.05	<0
.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.
2.1	20.4	62.6	13.7	86.8	4.9	<0.5	22.4	10.3	2.7	2.0	3.4	2.9	3.4	4
0.8	155	184	180	189	56	<0.1	198	142	47.7	49.2	65.0	50.5	56.3	2
.01	0.06	0.92	0.05	1.46	<0.01	<0.01	9.59	4.72	<0.01	0.10	0.03	<0.01	<0.01	<0
0008	<0.0008	0.0011	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	0.47	<0.05	<0.05	<0.05	<0.05	<0.05	<0
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0
.003	0.010	0.010	<0.003	0.018	<0.003	<0.003	0.004	0.012	<0.003	<0.003	<0.003	<0.003	<0.003	<0.
.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0
.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0
.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	1.11	<0.05	<0.05	<0.05	<0.05	<0.05	0
.05	16.2	58	2.14	78	<0.05	<0.05	97	3.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0
511	1155	1267	1113	1281	413	14	77	49	385	406	476	399	462	1
511	1155	1267	1113	1281	413	14	77	49	385	406	476	399	462	1
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
21	35	50	43	52	16	<5	317	33	7	6	7	16	7	
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.7	44	<0.5	<0.5	<0.5	<0.5	<0.5	<
.77	25	51	3.5	88	0.23	<0.05	25	139	<0.05	<0.05	<0.05	0.10	0.86	0
.55	22.4	49	2.7	80	0.07	<0.05	29	124	<0.05	<0.05	<0.05	<0.05	0.77	0
1.1	15.8	31.4	8.7	7.2	6.8	<1	119	4.5	1.9	<1.0	<1.0	3.5	2.3	1
1.1	30.7	98.4	10.6	105.2	6.8	<0.5	225	10.9	1.9	<0.5	0.7	3.5	2.3	1
<0.5	14.9	67	1.9	98	<0.5	<0.5	106	6.4	<0.5	<0.5	<0.5	<0.5	<0.5	<
21.7	265	576	213	549	18.03	0.06	103	75.9	7.92	5.41	7.95	8.02	14.66	2
241	2840	3800	4590	3930	920	5	3420	400	689	751	887	754	395	
228	605	931	668	1106	84	<5	708	579	25	48	69	31	63	
896	**2174**	**2806**	**2188**	**2864**	**612**	32	**2158**	***8792 (A)***	414	444	**550**	466	**542**	
4	3	16	9	34	14	<2	10	153	<2	4	5	16	2	
7.0	6.2	6.2	6.3	6.3	6.4	6.6	5.7	6.0	7.2				6.6	
3.1	4.3	1.2	1.4	3.2	2.0	1.0	0	3.1	0	1.3	2.6	1.3	1.3	
1.2	22.9	46.7	10.5	82.7	4.6	0.0	19.9	9	3.5	3.3	3.5	2.8	3.9	

APPENDIX D

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
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Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 5/18/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6278	10507-6279	10507-6280	10507-6281	10507-6282
Sample Description:	MW05-1	Duplicate	MW05-2	MW05-3	MW05-4
Date & Time Collected:	5/17/07 14:50	5/17/07 14:50	5/17/07 10:10	5/17/07 11:20	5/17/07 12:15
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.07	0.07	0.08	0.09	0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	97	92	105	122	106
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	0.49	<0.05	0.11
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	2.7	2.6	2.0	3.4	2.9
Magnesium mg/L (0.1)	47.7	44.7	49.2	65.0	50.5
Manganese mg/L (0.01)	<0.01	<0.01	0.10	0.03	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity mg/L (5)	385	378	406	476	399
Bicarbonate Alk mg/L (5)	385	378	406	476	399
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	7	7	6	7	16
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	0.10
Ortho-Phosphate:P mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate as N mg/L (1)	1.9	1.9	<1.0	<1.0	3.5
Nitrogen Total mg/L (0.5)**	1.9	1.9	<0.5	0.7	3.5
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	7.92	7.52	5.41	7.95	8.02
Specific Conductance uS (0.5)	689	643	751	887	754
Sulfate mg/L (5)	25	25	48	69	31
Total Dissolved Solids mg/L (2)	414	408	444	550	466
Total Suspended Solids mg/L (2)	<2	2	4	5	16
pH Units	7.2	6.9	6.4	6.4	6.4

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Date Submitted: 5/18/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6283	10507-6284	10507-6285	10507-6286	10507-6287
Sample Description:	MW05-5	A-1	A-2	A-2A	NW-10
Date & Time Collected:	5/17/07 12:55	5/17/07 16:35	5/17/07 18:10	5/17/07 17:40	5/17/07 15:45
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.08	0.06	0.06	0.09	0.12
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	126	71	101	103	134
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	0.20	0.18
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	3.4	1.5	0.9	2.6	3.0
Magnesium mg/L (0.1)	56.3	20.2	43.9	50.6	61.4
Manganese mg/L (0.01)	<0.01	<0.01	<0.01	0.33	0.60
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	0.09	<0.05
Alkalinity mg/L (5)	462	217	364	406	392
Bicarbonate Alk mg/L (5)	462	217	364	406	392
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	7	17	6	6	9
Fluoride mg/L (0.5)	<0.5	<0.5	0.6	<0.5	<0.5
Phosphorus:P mg/L (0.05)	0.86	0.06	<0.05	0.10	0.06
Ortho-Phosphate:P mg/L (0.05)	0.77	<0.05	<0.05	0.12	<0.05
Nitrate as N mg/L (1)	2.3	<1.0	<1.0	<1.0	<1.0
Nitrogen Total mg/L (0.5)**	2.3	0.9	0.7	<0.5	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	14.66	6.93	6.86	6.78	12.87
Specific Conductance uS (0.5)	395	283	675	415	462
Sulfate mg/L (5)	63	8	36	38	145
Total Dissolved Solids mg/L (2)	542	246	392	424	594
Total Suspended Solids mg/L (2)	2	7	3	9	7
pH Units	6.6	6.4	6.5	7.3	7.5

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Date Submitted: 5/18/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6295	10507-6296	10507-6297	10507-6298
Sample Description:	A-3	A-4	A-5	A-6
Date & Time Collected:	5/18/07 12:55	5/18/07 10:35	5/18/07 14:10	5/18/07 13:30
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	0.012
Barium mg/L (0.05)	0.17	0.07	0.06	0.20
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	220	366	196	337
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	5.7	6.8	12.1	20.4
Magnesium mg/L (0.1)	87.9	149	80.8	155
Manganese mg/L (0.01)	<0.01	0.15	<0.01	0.06
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.005	0.040	<0.003	0.010
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	0.06	<0.05	16.2
Alkalinity mg/L (5)	721	1134	511	1155
Bicarbonate Alk mg/L (5)	721	1134	511	1155
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	11	19	21	35
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	1.5	0.39	0.77	25
Ortho-Phosphate:P mg/L (0.05)	0.94	0.35	0.55	22.4
Nitrate as N mg/L (1)	2.7	13.2	1.1	15.8
Nitrogen Total mg/L (0.5)**	2.7	13.2	1.1	30.7
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	14.9
Sodium mg/L (0.05)	31.6	72.3	21.7	265
Specific Conductance uS (0.5)	1389	2270	1241	2840
Sulfate mg/L (5)	150	330	228	605
Total Dissolved Solids mg/L (2)	928	1644	896	2174
Total Suspended Solids mg/L (2)	81	81	4	3
pH Units	6.1	6.4	7.0	6.2

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Date Submitted: 5/18/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6299	10507-6300	10507-6301	10507-6302
Sample Description:	A-7	A-8	A-9A	A-10
Date & Time Collected:	5/18/07 11:10	5/18/07 12:20	5/18/07 11:45	5/18/07 9:40
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.030	0.016	<0.005	<0.005
Barium mg/L (0.05)	<0.05	0.18	0.12	0.06
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	184	241	397	149
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	86.8	62.6	13.7	4.9
Magnesium mg/L (0.1)	189	184	180	56
Manganese mg/L (0.01)	1.46	0.92	0.05	<0.01
Mercury mg/L (0.0008)	<0.0008	0.0011	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.018	0.010	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	78	58	2.14	<0.05
Alkalinity mg/L (5)	1281	1267	1113	413
Bicarbonate Alk mg/L (5)	1281	1267	1113	413
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	52	50	43	16
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	88	51	3.5	0.23
Ortho-Phosphate:P mg/L (0.05)	80	49	2.7	0.07
Nitrate as N mg/L (1)	7.2	31.4	8.7	6.8
Nitrogen Total mg/L (0.5)**	105.2	98.4	10.6	6.8
Nitrogen Total Kjeldahl mg/L (0.5)	98	67	1.9	<0.5
Sodium mg/L (0.05)	549	576	213	18.03
Specific Conductance uS (0.5)	3930	3800	4590	920
Sulfate mg/L (5)	1106	931	668	84
Total Dissolved Solids mg/L (2)	2864	2806	2188	612
Total Suspended Solids mg/L (2)	34	16	9	14
pH Units	6.3	6.2	6.3	6.4

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Date Submitted: 5/19/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6303	10507-6304	10507-6305	10507-6306
Sample Description:	NW-5	NW-9	MWA	MWB
Date & Time Collected:	5/19/07 10:45	5/19/07 8:35	5/19/07 9:50	5/19/07 9:15
Aluminum mg/L (0.03)	<0.03	0.31	1.27	8.92
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.005	0.012	0.012	0.022
Barium mg/L (0.05)	0.06	<0.05	<0.05	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	268	198	258	155
Cadmium mg/L (0.002)	<0.002	0.039	0.020	0.117
Cobalt mg/L (0.01)	<0.01	0.02	0.06	0.04
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	0.09	<0.05	<0.05	<0.05
Iron mg/L (0.05)	0.35	<0.05	<0.05	0.51
Lead mg/L (0.003)	0.005	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	18.2	7.1	22.4	10.3
Magnesium mg/L (0.1)	104	86.2	198	142
Manganese mg/L (0.01)	0.21	1.20	9.59	4.72
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	0.20	0.27	0.47
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.024	0.013	0.004	0.012
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	0.13	0.09	1.11
Ammonia Total mg/L (0.05)	<0.05	3.09	97	3.9
Alkalinity mg/L (5)	623	126	77	49
Bicarbonate Alk mg/L (5)	623	126	77	49
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	27	52	317	33
Fluoride mg/L (0.5)	<0.5	19.2	7.7	44
Phosphorus:P mg/L (0.05)	13.8	78	25	139
Ortho-Phosphate:P mg/L (0.05)	10.9	63	29	124
Nitrate as N mg/L (1)	10.2	11.2	119	4.5
Nitrogen Total mg/L (0.5)**	10.2	15.0	225	10.9
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	3.8	106	6.4
Sodium mg/L (0.05)	126	71.4	103	75.9
Specific Conductance uS (0.5)	6360	1581	3420	400
Sulfate mg/L (5)	646	538	708	579
Total Dissolved Solids mg/L (2)	1780	1316	2158	~~8792~~
Total Suspended Solids mg/L (2)	50	183	10	153
pH Units	6.4	6.4	5.7	6.0

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Date Submitted: 5/22/2007
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Tracking Number:	10507-6372	10507-6373	10507-6374	10507-6375	10507-6376
Sample Description:	NW-7	NW-8	ARRMAZ	LOWRY	JRS-8
Date & Time Collected:	5/22/07 9:15	5/22/07 9:50	5/22/07 8:40	5/22/07 12:35	5/22/07 12:00
Aluminum mg/L (0.03)	0.05	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.14	0.14	0.11	<0.05	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	128	69	236	88	238
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	5.3	4.8	5.4	4.8	8.4
Magnesium mg/L (0.1)	35.9	19.3	68.9	21.0	66.0
Manganese mg/L (0.01)	0.01	<0.01	<0.01	<0.01	0.42
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.019	<0.003	<0.003	<0.003	0.012
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	0.23	0.07	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	<0.05	1.22
Alkalinity mg/L (5)	266	217	770	175	280
Bicarbonate Alk mg/L (5)	266	217	770	175	280
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5	<5
Chloride mg/L (5)	19	11	6	40	43
Fluoride mg/L (0.5)	<0.5	<0.5	0.6	<0.5	0.7
Phosphorus:P mg/L (0.05)	0.28	0.08	<0.05	0.12	1.3
Ortho-Phosphate:P mg/L (0.05)	0.07	<0.05	<0.05	0.12	1.3
Nitrate as N mg/L (1)	3.2	2.6	<1	12.1	14.7
Nitrogen Total mg/L (0.5)**	3.2	2.6	<0.5	12.1	16.7
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5	2.0
Sodium mg/L (0.05)	14.04	9.87	7.28	29.57	81.5
Specific Conductance uS (0.5)	382	463	1261	652	1558
Sulfate mg/L (5)	134	20	31	47	464
Total Dissolved Solids mg/L (2)	538	284	782	398	1198
Total Suspended Solids mg/L (2)	2	<2	<2	2	3
pH Units	7.6	7.8	6.9	6.4	6.2

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 5/22/2007 & 5/23/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6377	10507-6378	10507-6381	10507-6382
Sample Description:	JRS-10	JRS-11	TORGESEN	EQUIP BLANK
Date & Time Collected:	5/22/07 10:50	5/22/07 10:25	5/23/07 10:35	5/23/07 12:00
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.007	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.17	<0.05	0.08	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	250	102	186	<1
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	12.2	1.2	5.0	<0.5
Magnesium mg/L (0.1)	99.1	16.1	85.0	<0.1
Manganese mg/L (0.01)	0.12	<0.01	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.008	0.028	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	1.99	0.06	<0.05
Ammonia Total mg/L (0.05)	6.2	<0.05	<0.05	<0.05
Alkalinity mg/L (5)	553	245	434	14
Bicarbonate Alk mg/L (5)	553	245	434	14
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	36	12	60	<5
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	10.8	0.12	0.08	<0.05
Ortho-Phosphate:P mg/L (0.05)	9.7	<0.05	0.08	<0.05
Nitrate as N mg/L (1)	14.2	1.4	41	<1
Nitrogen Total mg/L (0.5)**	22.2	1.4	41.0	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	8.0	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	124	8.51	23.25	0.06
Specific Conductance uS (0.5)	1970	574	422	5
Sulfate mg/L (5)	521	44	66	<5
Total Dissolved Solids mg/L (2)	1508	352	904	32
Total Suspended Solids mg/L (2)	4	<2	2	<2
pH Units	6.2	7.4	7.2	6.6

G. Ryan Pattie/bd
Lab Director

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**TKN + Nitrate value expressed as N mg/L

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 5/23/2007
Date Reported: 6/11/2007

Tracking Number:	10507-6379	10507-6380
Sample Description:	A-11	A-12
Date & Time Collected:	5/23/07 11:15	5/23/07 10:05
Aluminum mg/L (0.03)	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005
Barium mg/L (0.05)	0.18	0.11
Beryllium mg/L (0.002)	<0.002	<0.002
Calcium mg/L (1)	222	157
Cadmium mg/L (0.002)	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003
Potassium mg/L (0.5)	11.8	5.2
Magnesium mg/L (0.1)	96.0	72.8
Manganese mg/L (0.01)	0.26	0.11
Mercury mg/L (0.0008)	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03
Zinc mg/L (0.05)	0.11	<0.05
Ammonia Total mg/L (0.05)	1.29	<0.05
Alkalinity mg/L (5)	777	616
Bicarbonate Alk mg/L (5)	777	616
Carbonate Alkalinity mg/L (5)	<5	<5
Chloride mg/L (5)	16	37
Fluoride mg/L (0.5)	<0.5	<0.5
Phosphorus:P mg/L (0.05)	4.7	0.16
Ortho-Phosphate:P mg/L (0.05)	4.2	<0.05
Nitrate as N mg/L (1)	10.4	1.1
Nitrogen Total mg/L (0.5)**	12.3	1.1
Nitrogen Total Kjeldahl mg/L (0.5)	1.9	<0.5
Sodium mg/L (0.05)	84.5	29.40
Specific Conductance uS (0.5)	1655	439
Sulfate mg/L (5)	188	33
Total Dissolved Solids mg/L (2)	1122	720
Total Suspended Solids mg/L (2)	301	60
pH Units	6.3	7.5

G. Ryan Pattie/bd
Lab Director

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**TKN + Nitrate value expressed as N mg/L

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 1/3/2007
Date Reported: 1/10/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 01-03-2007
Sampling Time: 7:15
Date Received: 01-03-2007
Lab Tracking #: 101075320

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	1/3/2007	BR
Antimony mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
Arsenic mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
Barium mg/L 200.8	0.075	mg/L	200.8	1/4/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	1/4/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
P2O5 %	<0.2	%	GRAV.	1/4/2007	GP
Selenium mg/L 200.8	0.003	mg/L	200.8	1/4/2007	RP
Sodium mg/L 200.8	19.025	mg/L	200.8	1/4/2007	RP
Specific Conductance us/cm	1213	us/cm	120.1	1/3/2007	BR
Thallium mg/L 200.8	<0.001	mg/L	200.8	1/4/2007	RP
pH units	6.9	pH units	150.1	1/3/2007	BR
Total Phos:P mg/L	0.23	mg/L	365.2	1/9/2007	RP

G. Ryan Pattie/bd
Lab Director

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IAS EnviroChem

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3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 1/8/2007
Date Reported: 1/10/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 01-08-2007
Sampling Time: 7:15
Date Received: 01-08-2007
Lab Tracking #: 101075335

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Barium mg/L 200.8	0.077	mg/L	200.8	1/9/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	1/9/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	1/9/2007	RP
Sodium mg/L 200.8	22.39	mg/L	200.8	1/9/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	1/9/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	1/9/2007	RP
Chloride mg/L	62	mg/L	300.0	1/9/2007	RP
Sulfate mg/L	71	mg/L	300.0	1/9/2007	RP
pH units	7.2	pH units	150.1	1/8/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	1/9/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	420	mg/L	310.1	1/8/2007	BR
Specific Conductance us/cm	1182	us/cm	120.1	1/8/2007	BR

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IAS EnviroChem

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Soda Springs, ID 83276

Date Submitted: 1/15/2007
Date Reported: 1/17/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 01-15-2007
Sampling Time: 9:15
Date Received: 01-15-2007
Lab Tracking #: 10107-5401

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Barium mg/L 200.8	0.081	mg/L	200.8	1/16/2006	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	1/16/2006	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	1/16/2006	RP
Sodium mg/L 200.8	21.73	mg/L	200.8	1/16/2006	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	1/16/2006	RP
Nitrate:N mg/L	40	mg/L	300.0	1/16/2007	RP
Chloride mg/L	64	mg/L	300.0	1/16/2007	RP
Sulfate mg/L	73	mg/L	300.0	1/16/2007	RP
pH units	7.3	pH units	150.1	1/15/2007	BR
Total Phos:P mg/L	0.06	mg/L	365.2	1/16/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	420	mg/L	310.1	1/15/2007	BR
Specific Conductance us/cm	1186	us/cm	120.1	1/15/2007	BR

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Lab Director

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IAS EnviroChem

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3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 1/22/2007
Date Reported: 1/24/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 01-22-2007
Sampling Time: 7:05
Date Received: 01-22-2007
Lab Tracking #: 10107-5451

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Barium mg/L 200.8	0.077	mg/L	200.8	1/23/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	1/23/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	1/23/2007	RP
Sodium mg/L 200.8	18.06	mg/L	200.8	1/23/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	1/23/2007	RP
Nitrate:N mg/L	42	mg/L	300.0	1/23/2007	RP
Chloride mg/L	63	mg/L	300.0	1/23/2007	RP
Sulfate mg/L	72	mg/L	300.0	1/23/2007	RP
pH units	7.3	pH units	150.1	1/22/2007	BR
Total Phos:P mg/L	0.06	mg/L	365.2	1/23/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	1/22/2007	BR
Specific Conductance us/cm	1194	us/cm	120.1	1/22/2007	BR

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Lab Director

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Soda Springs, ID 83276

Date Submitted: 1/29/2007
Date Reported: 1/31/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 01-29-2007
Sampling Time: 16:55
Date Received: 01-29-2007
Lab Tracking # : 10107-5507

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Barium mg/L 200.8	0.075	mg/L	200.8	1/30/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	1/30/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	1/30/2007	RP
Sodium mg/L 200.8	18.61	mg/L	200.8	1/30/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	1/30/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	1/29/2007	RP
Chloride mg/L	63	mg/L	300.0	1/29/2007	RP
Sulfate mg/L	71	mg/L	300.0	1/29/2007	RP
pH units	7.2	pH units	150.1	1/29/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	1/30/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	1/29/2007	BR
Specific Conductance us/cm	1189	us/cm	120.1	1/29/2007	BR

G. Ryan Pattie/bd
Lab Director

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IAS EnviroChem

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Dean Alcorn
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Soda Springs, ID 83276

Date Submitted: 2/5/2007
Date Reported: 2/7/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 02-05-2007
Sampling Time: 16:50
Date Received: 02-05-2007
Lab Tracking # : 10207-5308

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Barium mg/L 200.8	0.076	mg/L	200.8	2/6/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	2/6/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	2/6/2007	RP
Sodium mg/L 200.8	17.16	mg/L	200.8	2/6/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	2/6/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	2/5/2007	RP
Chloride mg/L	63	mg/L	300.0	2/5/2007	RP
Sulfate mg/L	71	mg/L	300.0	2/5/2007	RP
pH units	7.2	pH units	150.1	2/5/2007	BR
Total Phos:P mg/L	0.06	mg/L	365.2	2/5/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	413	mg/L	310.1	2/5/2007	BR
Specific Conductance us/cm	1191	us/cm	120.1	2/5/2007	BR

G. Ryan Pattie/bd
Lab Director

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 2/20/2007
Date Reported: 2/21/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 02-19-2007
Sampling Time: 09:05
Date Received: 02-20-2007
Lab Tracking # : 10207-5449

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Barium mg/L 200.8	0.077	mg/L	200.8	2/20/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	2/20/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	2/20/2007	RP
Sodium mg/L 200.8	16.34	mg/L	200.8	2/20/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	2/20/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	2/20/2007	RP
Chloride mg/L	63	mg/L	300.0	2/20/2007	RP
Sulfate mg/L	72	mg/L	300.0	2/20/2007	RP
pH units	7.6	pH units	150.1	2/20/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	2/20/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	434	mg/L	310.1	2/20/2007	BR
Specific Conductance us/cm	1183	us/cm	120.1	2/20/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 2/13/2007
Date Reported: 2/15/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 02-12-2007
Sampling Time: 18:22
Date Received: 02-13-2007
Lab Tracking # : 10207-5382

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Barium mg/L 200.8	0.073	mg/L	200.8	2/13/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	2/13/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	2/13/2007	RP
Sodium mg/L 200.8	16.88	mg/L	200.8	2/13/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	2/13/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	2/13/2007	RP
Chloride mg/L	62	mg/L	300.0	2/13/2007	RP
Sulfate mg/L	71	mg/L	300.0	2/13/2007	RP
pH units	7.4	pH units	150.1	2/13/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	2/14/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	2/13/2007	BR
Specific Conductance us/cm	1181	us/cm	120.1	2/13/2007	BR

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Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 2/26/2007
Date Reported: 2/28/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 02-26-2007
Sampling Time: 16:50
Date Received: 02-27-2007
Lab Tracking # : 10207-5517

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Barium mg/L 200.8	0.074	mg/L	200.8	2/27/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	2/27/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	2/27/2007	RP
Sodium mg/L 200.8	16.46	mg/L	200.8	2/27/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	2/27/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	2/27/2007	RP
Chloride mg/L	62	mg/L	300.0	2/27/2007	RP
Sulfate mg/L	72	mg/L	300.0	2/27/2007	RP
pH units	7.2	pH units	150.1	2/27/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	2/27/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	399	mg/L	310.1	2/27/2007	BR
Specific Conductance us/cm	1196	us/cm	120.1	2/27/2007	BR

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Soda Springs, ID 83276

Date Submitted: 3/5/2007
Date Reported: 3/7/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 03-05-2007
Sampling Time: 16:55
Date Received: 03-06-2007
Lab Tracking # : 10307-5563

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Barium mg/L 200.8	0.074	mg/L	200.8	3/6/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	3/6/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	3/6/2007	RP
Sodium mg/L 200.8	15.17	mg/L	200.8	3/6/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	3/6/2007	RP
Nitrate:N mg/L	39	mg/L	300.0	3/6/2007	RP
Chloride mg/L	61	mg/L	300.0	3/6/2007	RP
Sulfate mg/L	71	mg/L	300.0	3/6/2007	RP
pH units	7.1	pH units	150.1	3/6/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	3/6/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	3/6/2007	BR
Specific Conductance us/cm	1178	us/cm	120.1	3/6/2007	BR

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Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 3/12/2007
Date Reported: 3/14/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 03-12-2007
Sampling Time: 17:00
Date Received: 03-12-2007
Lab Tracking # : 10307-5621

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Barium mg/L 200.8	0.079	mg/L	200.8	3/13/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	3/13/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	3/13/2007	RP
Sodium mg/L 200.8	17.23	mg/L	200.8	3/13/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	3/13/2007	RP
Nitrate:N mg/L	39	mg/L	300.0	3/13/2007	RP
Chloride mg/L	60	mg/L	300.0	3/13/2007	RP
Sulfate mg/L	68	mg/L	300.0	3/13/2007	RP
pH units	7.1	pH units	150.1	3/12/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	3/13/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	399	mg/L	310.1	3/12/2007	BR
Specific Conductance us/cm	1190	us/cm	120.1	3/12/2007	BR

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Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 3/19/2007
Date Reported: 3/21/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 03-19-2007
Sampling Time: 17:00
Date Received: 03-19-2007
Lab Tracking # : 10307-5684

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Barium mg/L 200.8	0.069	mg/L	200.8	3/20/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	3/20/2007	RP
Sodium mg/L 200.8	15.53	mg/L	200.8	3/20/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	3/20/2007	RP
Nitrate:N mg/L	35	mg/L	300.0	3/20/2007	RP
Chloride mg/L	54	mg/L	300.0	3/20/2007	RP
Sulfate mg/L	62	mg/L	300.0	3/20/2007	RP
pH units	7.3	pH units	150.1	3/21/2007	BR
Total Phos:P mg/L	0.10	mg/L	365.2	3/20/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	364	mg/L	310.1	3/21/2007	BR
Specific Conductance us/cm	1089	us/cm	120.1	3/21/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 3/26/2007
Date Reported: 3/28/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 03-26-2007
Sampling Time: 10:05
Date Received: 03-26-2007
Lab Tracking # : 10307-5747

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Barium mg/L 200.8	0.076	mg/L	200.8	3/27/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	3/27/2007	RP
Sodium mg/L 200.8	17.10	mg/L	200.8	3/27/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	3/27/2007	RP
Nitrate:N mg/L	37	mg/L	300.0	3/27/2007	RP
Chloride mg/L	55	mg/L	300.0	3/27/2007	RP
Sulfate mg/L	65	mg/L	300.0	3/27/2007	RP
pH units	7.2	pH units	150.1	3/27/2007	BR
Total Phos:P mg/L	0.09	mg/L	365.2	3/27/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	371	mg/L	310.1	3/27/2007	BR
Specific Conductance us/cm	1181	us/cm	120.1	3/27/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 4/2/2007
Date Reported: 4/4/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 04-02-2007
Sampling Time: 17:00
Date Received: 04-02-2007
Lab Tracking # : 10407-5797

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Barium mg/L 200.8	0.075	mg/L	200.8	4/3/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	4/3/2007	RP
Sodium mg/L 200.8	17.03	mg/L	200.8	4/3/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	4/3/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	4/2/2007	RP
Chloride mg/L	56	mg/L	300.0	4/2/2007	RP
Sulfate mg/L	65	mg/L	300.0	4/2/2007	RP
pH units	7.2	pH units	150.1	4/3/2007	BR
Total Phos:P mg/L	0.10	mg/L	365.2	4/3/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	399	mg/L	310.1	4/3/2007	BR
Specific Conductance us/cm	1212	us/cm	120.1	4/2/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 4/10/2007
Date Reported: 4/11/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 04-09-2007
Sampling Time: 16:45
Date Received: 04-10-2007
Lab Tracking # : 10407-5872

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Barium mg/L 200.8	0.079	mg/L	200.8	4/10/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	4/10/2007	RP
Sodium mg/L 200.8	17.38	mg/L	200.8	4/10/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	4/10/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	4/10/2007	RP
Chloride mg/L	55	mg/L	300.0	4/10/2007	RP
Sulfate mg/L	63	mg/L	300.0	4/10/2007	RP
pH units	7.2	pH units	150.1	4/10/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	4/10/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	420	mg/L	310.1	4/10/2007	BR
Specific Conductance us/cm	1177	us/cm	120.1	4/10/2007	BR

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IAS EnviroChem

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Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 4/17/2007
Date Reported: 4/18/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 04-16-2007
Sampling Time: 16:50
Date Received: 04-17-2007
Lab Tracking # : 10407-5918

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Barium mg/L 200.8	0.078	mg/L	200.8	4/17/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	4/17/2007	RP
Sodium mg/L 200.8	17.62	mg/L	200.8	4/17/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	4/17/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	4/17/2007	RP
Chloride mg/L	58	mg/L	300.0	4/17/2007	RP
Sulfate mg/L	67	mg/L	300.0	4/17/2007	RP
pH units	7.2	pH units	150.1	4/17/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	4/17/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	427	mg/L	310.1	4/17/2007	BR
Specific Conductance us/cm	1221	us/cm	120.1	4/17/2007	BR

G. Ryan Pattie/bd
Lab Director

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 4/24/2007
Date Reported: 4/25/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 04-23-2007
Sampling Time: 17:00
Date Received: 04-24-2007
Lab Tracking # : 10407-5973

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Barium mg/L 200.8	0.076	mg/L	200.8	4/24/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	4/24/2007	RP
Sodium mg/L 200.8	17.12	mg/L	200.8	4/24/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	4/24/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	4/23/2007	RP
Chloride mg/L	59	mg/L	300.0	4/23/2007	RP
Sulfate mg/L	68	mg/L	300.0	4/23/2007	RP
pH units	7.2	pH units	150.1	4/24/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	4/24/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	406	mg/L	310.1	4/24/2007	BR
Specific Conductance us/cm	1219	us/cm	120.1	4/24/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 4/30/2007
Date Reported: 5/2/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 04-30-2007
Sampling Time: 16:55
Date Received: 05-01-2007
Lab Tracking # : 10407-6023

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Barium mg/L 200.8	0.079	mg/L	200.8	5/1/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	5/1/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	5/1/2007	RP
Sodium mg/L 200.8	17.20	mg/L	200.8	5/1/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	5/1/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	5/1/2007	RP
Chloride mg/L	58	mg/L	300.0	5/1/2007	RP
Sulfate mg/L	67	mg/L	300.0	5/1/2007	RP
pH units	7.3	pH units	150.1	4/30/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	5/2/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	427	mg/L	310.1	4/30/2007	BR
Specific Conductance us/cm	1222	us/cm	120.1	5/1/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
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3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 5/7/2007
Date Reported: 5/9/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 05-07-2007
Sampling Time: 16:55
Date Received: 05-07-2007
Lab Tracking # : 10507-6096

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Barium mg/L 200.8	0.079	mg/L	200.8	5/8/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	5/8/2007	RP
Sodium mg/L 200.8	17.75	mg/L	200.8	5/8/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	5/8/2007	RP
Nitrate:N mg/L	43	mg/L	300.0	5/7/2007	RP
Chloride mg/L	61	mg/L	300.0	5/7/2007	RP
Sulfate mg/L	70	mg/L	300.0	5/7/2007	RP
pH units	7.3	pH units	150.1	5/8/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	5/8/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	434	mg/L	310.1	5/8/2007	BR
Specific Conductance us/cm	1251	us/cm	120.1	5/8/2007	BR

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Agrium Inc. CPO
Dean Alcorn
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Soda Springs, ID 83276

Date Submitted: 5/14/2007
Date Reported: 5/16/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 05-14-2007
Sampling Time: 16:55
Date Received: 05-14-2007
Lab Tracking # : 10507-6186

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Barium mg/L 200.8	0.079	mg/L	200.8	5/16/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	5/16/2007	RP
Sodium mg/L 200.8	16.18	mg/L	200.8	5/16/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	5/16/2007	RP
Nitrate:N mg/L	41	mg/L	300.0	5/15/2007	RP
Chloride mg/L	60	mg/L	300.0	5/15/2007	RP
Sulfate mg/L	68	mg/L	300.0	5/15/2007	RP
pH units	7.3	pH units	150.1	5/15/2007	BR
Total Phos:P mg/L	0.07	mg/L	365.2	5/15/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	427	mg/L	310.1	5/15/2007	BR
Specific Conductance us/cm	1179	us/cm	120.1	5/16/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 6/11/2007
Date Reported: 6/13/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 06-11-2007
Sampling Time: 08:10
Date Received: 06-11-2007
Lab Tracking # : 10607-6578

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Barium mg/L 200.8	0.075	mg/L	200.8	6/12/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Chromium mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	6/12/2007	RP
Sodium mg/L 200.8	15.62	mg/L	200.8	6/12/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	6/12/2007	RP
Nitrate:N mg/L	40	mg/L	300.0	6/12/2007	RP
Chloride mg/L	59	mg/L	300.0	6/12/2007	RP
Sulfate mg/L	65	mg/L	300.0	6/12/2007	RP
pH units	7.3	pH units	150.1	6/12/2007	BR
Total Phos:P mg/L	0.08	mg/L	365.2	6/12/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	392	mg/L	310.1	6/12/2007	BR
Specific Conductance us/cm	1140	us/cm	120.1	6/12/2007	BR

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Agrium Inc. CPO
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Soda Springs, ID 83276

Date Submitted: 6/18/2007
Date Reported: 6/20/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 06-18-2007
Sampling Time: 11:30
Date Received: 06-18-2007
Lab Tracking # : 10607-6779

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Barium mg/L 200.8	0.080	mg/L	200.8	6/19/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	6/19/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	6/19/2007	RP
Sodium mg/L 200.8	17.55	mg/L	200.8	6/19/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	6/19/2007	RP
Nitrate:N mg/L	38	mg/L	300.0	6/20/2007	RP
Chloride mg/L	59	mg/L	300.0	6/20/2007	RP
Sulfate mg/L	64	mg/L	300.0	6/20/2007	RP
pH units	7.4	pH units	150.1	6/18/2007	BR
Total Phos:P mg/L	0.09	mg/L	365.2	6/18/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	399	mg/L	310.1	6/18/2007	BR
Specific Conductance us/cm	1154	us/cm	120.1	6/18/2007	BR

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IAS EnviroChem

Agrium Inc. CPO
Dean Alcorn
3010 Conda Road
Soda Springs, ID 83276

Date Submitted: 6/25/2007
Date Reported: 6/27/2007

Certificate of Analysis

Sample Description: Torgesen Well
Sampling Date: 06-25-2007
Sampling Time: 10:00
Date Received: 06-25-2007
Lab Tracking # : 10607-6926

Analyte	Result	Units	Method	Analysis Date	Analyst
Arsenic mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Antimony mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Barium mg/L 200.8	0.077	mg/L	200.8	6/26/2007	RP
Beryllium mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Cadmium mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	6/26/2007	RP
Mercury mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Nickel mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	6/26/2007	RP
Sodium mg/L 200.8	18.27	mg/L	200.8	6/26/2007	RP
Thallium mg/L 200.8	<0.001	mg/L	200.8	6/26/2007	RP
Nitrate:N mg/L	39	mg/L	300.0	6/25/2007	RP
Chloride mg/L	60	mg/L	300.0	6/25/2007	RP
Sulfate mg/L	67	mg/L	300.0	6/25/2007	RP
pH units	7.0	pH units	150.1	6/25/2007	BR
Total Phos:P mg/L	0.20	mg/L	365.2	6/26/2007	RP
Alkalinity, TOTAL as CaCO3 mg/L	392	mg/L	310.1	6/25/2007	BR
Specific Conductance us/cm	1040	us/cm	120.1	6/25/2007	BR

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Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLR

Data Package Contains 56 *Pages*

Report No.: 35730

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
34755		A-1	J7F040111-22	JX7QA1AA	9JX7QA10	7156325
		A-1	J7F040111-22	JX7QA1AC	9JX7QA10	7156338
		A-10	J7F040111-33	JX7Q51AA	9JX7Q510	7156325
		A-10	J7F040111-33	JX7Q51AC	9JX7Q510	7156338
		A-11	J7F040111-12	JX7PJ1AA	9JX7PJ10	7156322
		A-11	J7F040111-12	JX7PJ1AC	9JX7PJ10	7156335
		A-12	J7F040111-13	JX7PN1AA	9JX7PN10	7156322
		A-12	J7F040111-13	JX7PN1AC	9JX7PN10	7156335
		A-2	J7F040111-23	JX7QD1AA	9JX7QD10	7156325
		A-2	J7F040111-23	JX7QD2AC	9JX7QD20	7156338
		A-2A	J7F040111-24	JX7QE1AA	9JX7QE10	7156325
		A-2A	J7F040111-24	JX7QE2AC	9JX7QE20	7156338
		A-3	J7F040111-26	JX7QM1AA	9JX7QM10	7156325
		A-3	J7F040111-26	JX7QM1AC	9JX7QM10	7156338
		A-4	J7F040111-27	JX7QP1AA	9JX7QP10	7156325
		A-4	J7F040111-27	JX7QP1AC	9JX7QP10	7156338
		A-5	J7F040111-28	JX7QQ1AA	9JX7QQ10	7156325
		A-5	J7F040111-28	JX7QQ1AC	9JX7QQ10	7156338
		A-6	J7F040111-29	JX7QR1AA	9JX7QR10	7156325
		A-6	J7F040111-29	JX7QR1AC	9JX7QR10	7156338
		A-7	J7F040111-30	JX7QV1AA	9JX7QV10	7156325
		A-7	J7F040111-30	JX7QV1AC	9JX7QV10	7156338
		A-8	J7F040111-31	JX7QX1AA	9JX7QX10	7156325
		A-8	J7F040111-31	JX7QX1AC	9JX7QX10	7156338
		A-9A	J7F040111-32	JX7Q31AA	9JX7Q310	7156325
		A-9A	J7F040111-32	JX7Q31AC	9JX7Q310	7156338

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
34755		ARRMAZ	J7F040111-7	JX7NX1AA	9JX7NX10	7156322
		ARRMAZ	J7F040111-7	JX7NX1AC	9JX7NX10	7156335
		DUPLICATE	J7F040111-17	JX7PW1AA	9JX7PW10	7156322
		DUPLICATE	J7F040111-17	JX7PW2AC	9JX7PW20	7156335
		EQUIP BLANK	J7F040111-15	JX7PT1AA	9JX7PT10	7156322
		EQUIP BLANK	J7F040111-15	JX7PT1AC	9JX7PT10	7156335
		JRS-10	J7F040111-10	JX7N71AA	9JX7N710	7156322
		JRS-10	J7F040111-10	JX7N71AC	9JX7N710	7156335
		JRS-11	J7F040111-11	JX7N91AA	9JX7N910	7156322
		JRS-11	J7F040111-11	JX7N91AC	9JX7N910	7156335
		JRS-8	J7F040111-9	JX7N41AA	9JX7N410	7156322
		JRS-8	J7F040111-9	JX7N41AC	9JX7N410	7156335
		LOWRY	J7F040111-8	JX7N11AA	9JX7N110	7156322
		LOWRY	J7F040111-8	JX7N11AC	9JX7N110	7156335
		MW05-2	J7F040111-18	JX7P11AA	9JX7P110	7156325
		MW05-2	J7F040111-18	JX7P12AC	9JX7P120	7156338
		MW05-3	J7F040111-19	JX7P51AA	9JX7P510	7156325
		MW05-3	J7F040111-19	JX7P52AC	9JX7P520	7176318
		MW05-4	J7F040111-20	JX7P61AA	9JX7P610	7156325
		MW05-4	J7F040111-20	JX7P62AC	9JX7P620	7156338
		MW05-5	J7F040111-21	JX7P91AA	9JX7P910	7156325
		MW05-5	J7F040111-21	JX7P91AC	9JX7P910	7156338
		MW05P BLANK	J7F040111-16	JX7PV1AA	9JX7PV10	7156322
		MW05P BLANK	J7F040111-16	JX7PV2AC	9JX7PV20	7156335
		MWA	J7F040111-3	JX7NQ1AA	9JX7NQ10	7156322
		MWA	J7F040111-3	JX7NQ1AC	9JX7NQ10	7156335
		MWB	J7F040111-4	JX7NR1AA	9JX7NR10	7156322
		MWB	J7F040111-4	JX7NR1AC	9JX7NR10	7156335
		NW-10	J7F040111-25	JX7QG1AA	9JX7QG10	7156325
		NW-10	J7F040111-25	JX7QG1AC	9JX7QG10	7156338
		NW-5	J7F040111-1	JX7NJ1AA	9JX7NJ10	7156322
		NW-5	J7F040111-1	JX7NJ1AC	9JX7NJ10	7156335
		NW-7	J7F040111-5	JX7NT1AA	9JX7NT10	7156322
		NW-7	J7F040111-5	JX7NT1AC	9JX7NT10	7156335
		NW-8	J7F040111-6	JX7NW1AA	9JX7NW10	7156322
		NW-8	J7F040111-6	JX7NW1AC	9JX7NW10	7156335
		NW-9	J7F040111-2	JX7NP1AA	9JX7NP10	7156322
		NW-9	J7F040111-2	JX7NP1AC	9JX7NP10	7156335
		TORGESEN	J7F040111-14	JX7PP1AA	9JX7PP10	7156322

Report No.: 35730

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
34755		TORGESEN	J7F040111-14	JX7PP1AC	9JX7PP10	7156335

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

June 26, 2007

Engineers, Inc.
301 W. College Avenue
Suite 1
Silver City, NM 88061

Attention: Wayne Ericson

Date Received in Lab	:	May 31, 2007
Sample Type	:	Thirty-Three (33) Waters
SDG Number	:	34755
Project Name/Number	:	IAS EnviroChem
Requisition Number	:	NUW0404P

CASE NARRATIVE

I. Introduction

On May 31, 2007, thirty-three water samples were received at the STL Richland (STLR) laboratory for radiochemical analysis. Upon receipt, the samples were assigned the STLR identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J7F040111.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gross Alpha by method RICH-RC-5014 (EPA 900.0)
Gross Beta by method RICH-RC-5014 (EPA 900.0)

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:

The samples were analyzed in two batches: 7156322 and 7156325. In the both batches the CRDL is not met. The samples were then recounted for 200 minutes and now meet the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

Gross Beta Analysis:

The samples were analyzed in three batches: 7176318, 7156338 and 7156335. In all batches the samples did not meet the CRDL and were re-counted for 200 minutes and now meet the CRDL, however; sample MW05-3 was lost due to a beaker that broke. The lost sample was re-analyzed in batch 7176318. The results from this re-run were accepted; however the RDL was not met due to high solids and was also re-counted for 200 minutes in order to reach the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Don Petty
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2 + TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Date: 27-Jun-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 35730

SDG No: 34755

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7156322 RICHRC5014									
	A-11								
	JX7PJ1AA	ALPHA	6.81E+00 +- 3.15E+00		pCi/L	100%	2.45E+00	3.00E+00	
	A-12								
	JX7PN1AA	ALPHA	2.39E+00 +- 1.89E+00	U	pCi/L	100%	2.82E+00	3.00E+00	
	ARRMAZ								
	JX7NX1AA	ALPHA	7.75E-02 +- 8.43E-01	U	pCi/L	100%	2.24E+00	3.00E+00	
	DUPLICATE								
	JX7PW1AA	ALPHA	1.40E+00 +- 1.04E+00	U	pCi/L	100%	1.43E+00	3.00E+00	
	EQUIP BLANK								
	JX7PT1AA	ALPHA	5.29E-02 +- 3.11E-01	U	pCi/L	100%	8.90E-01	3.00E+00	
	JRS-10								
	JX7N71AA	ALPHA	-6.25E-01 +- 1.60E+00	U	pCi/L	100%	4.21E+00	3.00E+00	
	JRS-11								
	JX7N91AA	ALPHA	2.17E+00 +- 1.64E+00	U	pCi/L	100%	2.28E+00	3.00E+00	
	JRS-8								
	JX7N41AA	ALPHA	2.23E+00 +- 2.09E+00	U	pCi/L	100%	3.45E+00	3.00E+00	
	LOWRY								
	JX7N11AA	ALPHA	1.35E+00 +- 1.48E+00	U	pCi/L	100%	2.40E+00	3.00E+00	
	MW05P BLANK								
	JX7PV1AA	ALPHA	-8.81E-02 +- 4.71E-01	U	pCi/L	100%	1.81E+00	3.00E+00	
	MWA								
	JX7NQ1AA	ALPHA	5.68E-01 +- 2.31E+00	U	pCi/L	100%	5.14E+00	3.00E+00	
	MWB								
	JX7NR1AA	ALPHA	3.10E+00 +- 2.92E+00	U	pCi/L	100%	4.81E+00	3.00E+00	
	NW-5								
	JX7NJ1AA	ALPHA	2.38E+00 +- 2.57E+00	U	pCi/L	100%	4.42E+00	3.00E+00	
	NW-5 DUP								
	JX7NJ1AD	ALPHA	5.60E+00 +- 3.48E+00		pCi/L	100%	4.41E+00	3.00E+00	1.5
	NW-7								
	JX7NT1AA	ALPHA	2.00E+00 +- 1.55E+00	U	pCi/L	100%	2.22E+00	3.00E+00	
	NW-8								
	JX7NW1AA	ALPHA	1.41E+00 +- 1.26E+00	U	pCi/L	100%	1.87E+00	3.00E+00	
	NW-9								
	JX7NP1AA	ALPHA	2.00E+01 +- 6.81E+00		pCi/L	100%	3.74E+00	3.00E+00	
	TORGESEN								
	JX7PP1AA	ALPHA	1.19E+00 +- 1.38E+00	U	pCi/L	100%	2.38E+00	3.00E+00	
7156325 RICHRC5014									
	A-1								
	JX7QA1AA	ALPHA	8.59E-02 +- 5.04E-01	U	pCi/L	100%	1.44E+00	3.00E+00	

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 27-Jun-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 35730

SDG No: 34755

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7156325 RICHRC5014									
	A-10 JX7Q51AA	ALPHA	1.96E+00 +- 1.55E+00	U	pCi/L	100%	2.21E+00	3.00E+00	
	A-2 JX7QD1AA	ALPHA	1.76E+00 +- 1.46E+00	U	pCi/L	100%	1.91E+00	3.00E+00	
	A-2A JX7QE1AA	ALPHA	5.49E-01 +- 6.39E-01	U	pCi/L	100%	1.01E+00	3.00E+00	
	A-3 JX7QM1AA	ALPHA	1.83E+00 +- 1.63E+00	U	pCi/L	100%	2.64E+00	3.00E+00	
	A-4 JX7QP1AA	ALPHA	9.33E-01 +- 1.85E+00	U	pCi/L	100%	3.76E+00	3.00E+00	
	A-5 JX7QQ1AA	ALPHA	3.10E+00 +- 1.97E+00		pCi/L	100%	2.82E+00	3.00E+00	
	A-6 JX7QR1AA	ALPHA	4.34E-01 +- 2.67E+00	U	pCi/L	100%	6.13E+00	3.00E+00	
	A-7 JX7QV1AA	ALPHA	3.23E+00 +- 4.42E+00	U	pCi/L	100%	8.21E+00	3.00E+00	
	A-8 JX7QX1AA	ALPHA	1.18E+00 +- 4.30E+00	U	pCi/L	100%	9.37E+00	3.00E+00	
	A-9A JX7Q31AA	ALPHA	1.38E+00 +- 2.73E+00	U	pCi/L	100%	5.55E+00	3.00E+00	
	MW05-2 JX7P11AA	ALPHA	1.27E+00 +- 1.09E+00	U	pCi/L	100%	1.69E+00	3.00E+00	
	MW05-2 DUP JX7P11AD	ALPHA	6.80E-01 +- 8.85E-01	U	pCi/L	100%	1.67E+00	3.00E+00	0.8
	MW05-3 JX7P51AA	ALPHA	2.58E+00 +- 1.55E+00	J	pCi/L	100%	1.36E+00	3.00E+00	
	MW05-4 JX7P61AA	ALPHA	1.26E+00 +- 1.06E+00	U	pCi/L	100%	1.57E+00	3.00E+00	
	MW05-5 JX7P91AA	ALPHA	1.33E+00 +- 1.23E+00	U	pCi/L	100%	2.00E+00	3.00E+00	
	NW-10 JX7QG1AA	ALPHA	1.11E+00 +- 1.26E+00	U	pCi/L	100%	2.23E+00	3.00E+00	
7156335 RICHRC5014									
	A-11 JX7PJ1AC	BETA	1.94E+01 +- 6.66E+00		pCi/L	100%	9.43E+00	4.00E+00	
	A-12 JX7PN1AC	BETA	8.96E+00 +- 3.43E+00		pCi/L	100%	5.51E+00	4.00E+00	
	ARRMAZ JX7NX1AC	BETA	8.33E+00 +- 3.95E+00		pCi/L	100%	6.82E+00	4.00E+00	

STL Richland

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RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 27-Jun-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 35730

SDG No: 34755

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7156335 RICHRC5014									
	DUPLICATE JX7PW2AC	BETA	2.78E+00 +- 1.77E+00	U	pCi/L	100%	3.24E+00	4.00E+00	
	EQUIP BLANK JX7PT1AC	BETA	2.46E-01 +- 1.28E+00	U	pCi/L	100%	2.81E+00	4.00E+00	
	JRS-10 JX7N71AC	BETA	8.61E+00 +- 4.84E+00		pCi/L	100%	8.60E+00	4.00E+00	
	JRS-11 JX7N91AC	BETA	3.25E+00 +- 1.94E+00	U	pCi/L	100%	3.54E+00	4.00E+00	
	JRS-8 JX7N41AC	BETA	7.03E+00 +- 3.62E+00		pCi/L	100%	6.29E+00	4.00E+00	
	LOWRY JX7N11AC	BETA	4.30E+00 +- 2.12E+00		pCi/L	100%	3.81E+00	4.00E+00	
	MW05P BLANK JX7PV2AC	BETA	3.53E+00 +- 2.01E+00	U	pCi/L	100%	3.64E+00	4.00E+00	
	MWA JX7NQ1AC	BETA	1.99E+01 +- 6.06E+00		pCi/L	100%	9.14E+00	4.00E+00	
	MWB JX7NR1AC	BETA	9.03E+00 +- 3.99E+00		pCi/L	100%	6.21E+00	4.00E+00	
	NW-5 JX7NJ1AC	BETA	1.88E+01 +- 5.96E+00		pCi/L	100%	9.09E+00	4.00E+00	
	NW-7 JX7NT1AC	BETA	5.11E+00 +- 2.65E+00		pCi/L	100%	4.61E+00	4.00E+00	
	NW-8 JX7NW1AC	BETA	2.91E+00 +- 1.83E+00	U	pCi/L	100%	3.47E+00	4.00E+00	
	NW-9 JX7NP1AC	BETA	1.79E+01 +- 4.29E+00		pCi/L	100%	5.58E+00	4.00E+00	
	NW-9 DUP JX7NP1AD	BETA	1.73E+01 +- 4.26E+00		pCi/L	100%	5.70E+00	4.00E+00	0.2
	TORGESEN JX7PP1AC	BETA	9.60E+00 +- 3.55E+00		pCi/L	100%	5.83E+00	4.00E+00	
7156338 RICHRC5014									
	A-1 JX7QA1AC	BETA	2.62E+00 +- 1.65E+00	U	pCi/L	100%	3.14E+00	4.00E+00	
	A-10 JX7Q51AC	BETA	4.62E+00 +- 2.64E+00		pCi/L	100%	4.60E+00	4.00E+00	
	A-2 JX7QD2AC	BETA	1.43E+00 +- 1.66E+00	U	pCi/L	100%	3.22E+00	4.00E+00	
	A-2A JX7QE2AC	BETA	2.06E+00 +- 1.86E+00	U	pCi/L	100%	3.48E+00	4.00E+00	

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 27-Jun-07

Sample Results Summary

STL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 35730

SDG No: 34755

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7156338 RICHRC5014									
	A-3 JX7QM1AC	BETA	9.88E+00 +- 4.39E+00		pCi/L	100%	7.50E+00	4.00E+00	
	A-4 JX7QP1AC	BETA	1.22E+01 +- 6.59E+00		pCi/L	100%	1.17E+01	4.00E+00	
	A-5 JX7QQ1AC	BETA	1.21E+00 +- 2.56E+00	U	pCi/L	100%	5.07E+00	4.00E+00	
	A-6 JX7QR1AC	BETA	2.19E+01 +- 8.30E+00		pCi/L	100%	1.36E+01	4.00E+00	
	A-7 JX7QV1AC	BETA	8.27E+01 +- 1.55E+01		pCi/L	100%	1.38E+01	4.00E+00	
	A-8 JX7QX1AC	BETA	4.67E+01 +- 1.21E+01		pCi/L	100%	1.52E+01	4.00E+00	
	A-9A JX7Q31AC	BETA	1.05E+01 +- 7.88E+00	U	pCi/L	100%	1.46E+01	4.00E+00	
	MW05-2 JX7P12AC	BETA	3.28E+00 +- 2.05E+00	U	pCi/L	100%	3.63E+00	4.00E+00	
	MW05-3 DUP JX7P51AD	BETA	3.49E+00 +- 2.55E+00	U	pCi/L	100%	4.75E+00	4.00E+00	0.6
	MW05-4 JX7P62AC	BETA	2.75E+00 +- 1.85E+00	U	pCi/L	100%	3.38E+00	4.00E+00	
	MW05-5 JX7P91AC	BETA	3.89E+00 +- 2.27E+00	U	pCi/L	100%	4.09E+00	4.00E+00	
	NW-10 JX7QG1AC	BETA	2.50E+00 +- 2.16E+00	U	pCi/L	100%	4.08E+00	4.00E+00	
7176318 RICHRC5014									
	MW05-3 JX7P52AC	BETA	4.65E+00 +- 2.54E+00		pCi/L	100%	4.34E+00	4.00E+00	
	MW05-3 DUP JX7P52AD	BETA	2.34E+00 +- 2.60E+00	U	pCi/L	100%	4.99E+00	4.00E+00	1.3

No. of Results: 71

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 27-Jun-07

QC Results Summary
STL Richland STLR
Ordered by Method, Batch No, QC Type,.

Report No. : 35730

SDG No.: 34755

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
RICHRC5014								
7156322 BLANK QC, J0AJG1AA	ALPHA	1.51E-02 +- 1.55E-01	U	pCi/L	100%			3.64E-01
7156322 LCS, J0AJG1AC	ALPHA	3.20E+01 +- 7.63E+00		pCi/L	100%	78%	-0.2	3.94E-01
RICHRC5014								
7156325 BLANK QC, J0AJJ1AA	ALPHA	-1.51E-02 +- 2.00E-01	U	pCi/L	100%			4.68E-01
7156325 LCS, J0AJJ1AC	ALPHA	3.14E+01 +- 7.50E+00		pCi/L	100%	77%	-0.2	3.62E-01
RICHRC5014								
7156335 BLANK QC, J0AKW1AA	BETA	1.38E+00 +- 8.97E-01	U	pCi/L	100%			1.60E+00
7156335 LCS, J0AKW1AC	BETA	3.55E+01 +- 4.96E+00		pCi/L	100%	86%	-0.1	1.73E+00
RICHRC5014								
7156338 BLANK QC, J0ALC1AA	BETA	8.12E-01 +- 9.20E-01	U	pCi/L	100%			1.77E+00
7156338 LCS, J0ALC1AC	BETA	3.97E+01 +- 5.38E+00		pCi/L	100%	97%	0.0	1.82E+00
RICHRC5014								
7176318 BLANK QC, J1QC61AA	BETA	2.09E-01 +- 8.84E-01	U	pCi/L	100%			1.78E+00
7176318 LCS, J1QC61AC	BETA	3.98E+01 +- 7.28E+00		pCi/L	100%	97%	0.0	1.94E+00

No. of Results: 10

STL Richland
rptSTLRchQcSummary V5.1.3 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-22
Client Sample ID: A-1

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 4:35:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QA1AA		Report DB ID: 9JX7QA10						
ALPHA	8.59E-02	U	5.0E-01	5.0E-01	1.44E+00	pCi/L	100%	*0.06*	6/21/07 08:31 a		0.2001 L	GPC10D
						4.90E-01	3.00E+00	*0.34*				
Batch: 7156338	RICHRC5014			Work Order: JX7QA1AC		Report DB ID: 9JX7QA10						
BETA	2.62E+00	U	1.6E+00	1.6E+00	3.14E+00	pCi/L	100%	*0.83*	6/22/07 07:37 p		0.1736 L	GPC27D
						1.49E+00	4.00E+00	*(3.2)*				

No. of Results: 2 Comments:

13

STL Richland
OptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUWW 085345

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-33
Client Sample ID: A-10

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 9:40:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7Q51AA			Report DB ID: 9JX7Q510					
ALPHA	1.96E+00	U	1.5E+00	1.5E+00	2.21E+00	pCi/L	100%	*0.89*	6/20/07 08:36 p		0.1005 L	GPC10D
						8.32E-01	3.00E+00	*(2.5)*				
Batch: 7156338	RICHRC5014			Work Order: JX7Q51AC			Report DB ID: 9JX7Q510					
BETA	4.62E+00		2.5E+00	2.6E+00	4.60E+00	pCi/L	100%	*(1.)*	6/23/07 10:05 a		0.0892 L	GPC31A
						2.22E+00	4.00E+00	*(3.5)*				

No. of Results: 2 Comments:

14

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-12
Client Sample ID: A-11

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 11:15:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7PJ1AA			Report DB ID: 9JX7PJ10					
ALPHA	6.81E+00		2.7E+00	3.1E+00	2.45E+00	pCi/L	100%	(2.8)	6/23/07 09:27 a		0.0436	GPC10B
						8.90E-01	3.00E+00	(4.3)			L	
Batch: 7156335	RICHRC5014			Work Order: JX7PJ1AC			Report DB ID: 9JX7PJ10					
BETA	1.94E+01		5.6E+00	6.7E+00	9.43E+00	pCi/L	100%	(2.1)	6/22/07 04:15 p		0.0431	GPC31A
						4.55E+00	4.00E+00	(5.8)			L	

No. of Results: 2 Comments:

15

STL Richland
tSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-13
Client Sample ID: A-12

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 10:05:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7PN1AA			Report DB ID: 9JX7PN10					
ALPHA	2.39E+00	U	1.8E+00	1.9E+00	2.82E+00	pCi/L	100%	*0.85*	6/22/07 08:25 p		0.0888	GPC10A
						1.10E+00	3.00E+00	*(2.5)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7PN1AC			Report DB ID: 9JX7PN10					
BETA	8.96E+00		3.2E+00	3.4E+00	5.51E+00	pCi/L	100%	*(1.6)*	6/22/07 04:15 p		0.0707	GPC31B
						2.65E+00	4.00E+00	*(5.2)*			L	

No. of Results: 2 Comments:

16

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005348

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-23
Client Sample ID: A-2

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 6:10:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QD1AA		Report DB ID: 9JX7QD10						
ALPHA	1.76E+00	U	1.4E+00	1.5E+00	1.91E+00	pCi/L	100%	*0.93*	6/21/07 08:31 a		0.1726	GPC10F
						6.39E-01	3.00E+00	*(2.4)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7QD2AC		Report DB ID: 9JX7QD20						
BETA	1.43E+00	U	1.7E+00	1.7E+00	3.22E+00	pCi/L	100%	*0.45*	6/26/07 05:13 p		0.1284	GPC31C
						1.55E+00	4.00E+00	*(1.7)*			L	

No. of Results: 2 Comments:

17

STL Richland
StSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005349

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-24
Client Sample ID: A-2A

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 5:40:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QE1AA		Report DB ID: 9JX7QE10						
ALPHA	5.49E-01	U	6.3E-01	6.4E-01	1.01E+00	pCi/L	100%	*0.54*	6/20/07 08:36 p		0.1561	GPC10B
						3.20E-01	3.00E+00	*(1.7)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7QE2AC		Report DB ID: 9JX7QE20						
BETA	2.06E+00	U	1.8E+00	1.9E+00	3.48E+00	pCi/L	100%	*0.59*	6/26/07 05:13 p		0.1134	GPC31D
						1.68E+00	4.00E+00	*(2.2)*			L	

No. of Results: 2 Comments:

18

STL Richland
rptSTLRchSample
V5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005350

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-26
Client Sample ID: A-3

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 12:55:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QM1AA		Report DB ID: 9JX7QM10						
ALPHA	1.83E+00	U	1.6E+00	1.6E+00	2.64E+00	pCi/L	100%	*0.69*	6/21/07 10:57 a		0.0621 L	GPC10A
						1.10E+00	3.00E+00	*(2.3)*				
Batch: 7156338	RICHRC5014			Work Order: JX7QM1AC		Report DB ID: 9JX7QM10						
BETA	9.88E+00		4.2E+00	4.4E+00	7.50E+00	pCi/L	100%	*(1.3)*	6/23/07 10:05 a		0.0511 L	GPC27A
						3.61E+00	4.00E+00	*(4.5)*				

No. of Results: 2 Comments:

19

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-27
Client Sample ID: A-4

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 10:35:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QP1AA			Report DB ID: 9JX7QP10					
ALPHA	9.33E-01	U	1.8E+00	1.9E+00	3.76E+00	pCi/L	100%	*0.25*	6/21/07 10:57 a		0.0416	GPC10B
						1.51E+00	3.00E+00	*(1.)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7QP1AC			Report DB ID: 9JX7QP10					
BETA	1.22E+01		6.4E+00	6.6E+00	1.17E+01	pCi/L	100%	*(1.)*	6/23/07 10:05 a		0.0327	GPC27B
						5.64E+00	4.00E+00	*(3.7)*			L	

No. of Results: 2 Comments:

20

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-28
Client Sample ID: A-5

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 2:10:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QQ1AA		Report DB ID: 9JX7QQ10						
ALPHA	3.10E+00		1.8E+00	2.0E+00	2.82E+00	pCi/L	100%	*(1.1)*	6/21/07 10:57 a		0.07 L	GPC10C
						1.20E+00	3.00E+00	*(3.1)*				
Batch: 7156338	RICHRC5014			Work Order: JX7QQ1AC		Report DB ID: 9JX7QQ10						
BETA	1.21E+00	U	2.6E+00	2.6E+00	5.07E+00	pCi/L	100%	*0.24*	6/23/07 10:05 a		0.0686 L	GPC27C
						2.44E+00	4.00E+00	*0.95*				

No. of Results: 2 Comments:

21

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-29
Client Sample ID: A-6

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 1:30:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order:	JX7QR1AA		Report DB ID:	9JX7QR10				
ALPHA	4.34E-01	U	2.7E+00	2.7E+00	6.13E+00	pCi/L	100%	*0.07*	6/21/07 10:57 a		0.0255	GPC10D
						2.48E+00	3.00E+00	*0.33*			L	
Batch: 7156338	RICHRC5014			Work Order:	JX7QR1AC		Report DB ID:	9JX7QR10				
BETA	2.19E+01		7.8E+00	8.3E+00	1.36E+01	pCi/L	100%	*(1.6)*	6/23/07 10:05 a		0.0287	GPC27D
						6.57E+00	4.00E+00	*(5.3)*			L	

No. of Results: 2 Comments:

22

STL Richland
ptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005354

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-30
Client Sample ID: A-7

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 11:10:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QV1AA		Report DB ID: 9JX7QV10						
ALPHA	3.23E+00	U	4.4E+00	4.4E+00	8.21E+00	pCi/L	100%	*0.39*	6/21/07 10:57 a		0.0175	GPC10F
						3.30E+00	3.00E+00	*(1.5)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7QV1AC		Report DB ID: 9JX7QV10						
BETA	8.27E+01		1.1E+01	1.6E+01	1.38E+01	pCi/L	100%	*(6.)*	6/23/07 10:05 a		0.029	GPC28B
						6.63E+00	4.00E+00	*(10.6)*			L	

No. of Results: 2 Comments:

23

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005355

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-31
Client Sample ID: A-8

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 12:20:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QX1AA		Report DB ID: 9JX7QX10						
ALPHA	1.18E+00	U	4.3E+00	4.3E+00	9.37E+00	pCi/L	100%	*0.13*	6/21/07 02:30 p		0.0177 L	GPC10A
						3.89E+00	3.00E+00	*0.55*				
Batch: 7156338	RICHRC5014			Work Order: JX7QX1AC		Report DB ID: 9JX7QX10						
BETA	4.67E+01		9.7E+00	1.2E+01	1.52E+01	pCi/L	100%	*(3.1)*	6/23/07 10:05 a		0.0274 L	GPC28C
						7.33E+00	4.00E+00	*(7.7)*				

No. of Results: 2 Comments:

24

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-32
Client Sample ID: A-9A

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/18/2007 11:45:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7Q31AA		Report DB ID: 9JX7Q310						
ALPHA	1.38E+00	U	2.7E+00	2.7E+00	5.55E+00	pCi/L	100%	*0.25*	6/21/07 02:30 p		0.0287 L	GPC10B
						2.23E+00	3.00E+00	*(1.)*				
Batch: 7156338	RICHRC5014			Work Order: JX7Q31AC		Report DB ID: 9JX7Q310						
BETA	1.05E+01	U	7.7E+00	7.9E+00	1.46E+01	pCi/L	100%	*0.72*	6/23/07 10:05 a		0.0306 L	GPC28D
						7.06E+00	4.00E+00	*(2.7)*				

No. of Results: 2 Comments:

25

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 005357

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-7
Client Sample ID: ARRMAZ

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 8:40:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NX1AA		Report DB ID: 9JX7NX10						
ALPHA	7.75E-02	U	8.4E-01	8.4E-01	2.24E+00	pCi/L	100%	*0.03*	6/22/07 11:04 a		0.1079	GPC10F
						8.56E-01	3.00E+00	*0.18*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7NX1AC		Report DB ID: 9JX7NX10						
BETA	8.33E+00		3.8E+00	4.0E+00	6.82E+00	pCi/L	100%	*(1.2)*	6/22/07 04:14 p		0.0601	GPC28B
						3.28E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

29

STL Richland
RptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-17
Client Sample ID: DUPLICATE

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 2:50:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7PW1AA		Report DB ID: 9JX7PW10						
ALPHA	1.40E+00	U	9.9E-01	1.0E+00	1.43E+00	pCi/L	100%	*0.98*	6/22/07 08:25 p		0.1607 L	GPC10C
						5.39E-01	3.00E+00	*(2.7)*				
Batch: 7156335	RICHRC5014			Work Order: JX7PW2AC		Report DB ID: 9JX7PW20						
BETA	2.78E+00	U	1.7E+00	1.8E+00	3.24E+00	pCi/L	100%	*0.86*	6/25/07 10:27 a		0.1222 L	GPC26B
						1.56E+00	4.00E+00	*(3.1)*				

No. of Results: 2 Comments:

27

STL Richland
optSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005359

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-15
Client Sample ID: EQUIP BLANK

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 12:00:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order:	JX7PT1AA		Report DB ID:	9JX7PT10				
ALPHA	5.29E-02	U	3.1E-01	3.1E-01	8.90E-01	pCi/L	100%	*0.06*	6/21/07 08:30 p		0.202 L	GPC10D
						3.02E-01	3.00E+00	*0.34*				
Batch: 7156335	RICHRC5014			Work Order:	JX7PT1AC		Report DB ID:	9JX7PT10				
BETA	2.46E-01	U	1.3E+00	1.3E+00	2.81E+00	pCi/L	100%	*0.09*	6/22/07 05:29 p		0.1985 L	GPC32B
						1.33E+00	4.00E+00	*0.39*				

No. of Results: 2 Comments:

28

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-10
Client Sample ID: JRS-10

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 10:50:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7N71AA		Report DB ID: 9JX7N710						
ALPHA	-6.25E-01	U	1.6E+00	1.6E+00	4.21E+00	pCi/L	100%	-0.15	6/23/07 09:27 a		0.0409	GPC10A
						1.76E+00	3.00E+00	-0.78			L	
Batch: 7156335	RICHRC5014			Work Order: JX7N71AC		Report DB ID: 9JX7N710						
BETA	8.61E+00		4.7E+00	4.8E+00	8.60E+00	pCi/L	100%	(1.)	6/22/07 04:14 p		0.05	GPC28D
						4.14E+00	4.00E+00	(3.6)			L	

No. of Results: 2 Comments:

29

STL Richland
rptSTLRchSample
V5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005361

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-11
Client Sample ID: JRS-11

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 10:25:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7N91AA		Report DB ID: 9JX7N910						
ALPHA	2.17E+00	U	1.6E+00	1.6E+00	2.28E+00	pCi/L	100%	*0.95*	6/21/07 08:30 p		0.1869 L	GPC10C
						8.52E-01	3.00E+00	*(2.6)*				
Batch: 7156335	RICHRC5014			Work Order: JX7N91AC		Report DB ID: 9JX7N910						
BETA	3.25E+00	U	1.8E+00	1.9E+00	3.54E+00	pCi/L	100%	*0.92*	6/22/07 05:29 p		0.1496 L	GPC32A
						1.68E+00	4.00E+00	*(3.3)*				

No. of Results: 2 Comments:

30

STL Richland
rptSTLRchSample
V5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUSV 005362

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-9
Client Sample ID: JRS-8

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 12:00:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7N41AA			Report DB ID: 9JX7N410					
ALPHA	2.23E+00	U	2.0E+00	2.1E+00	3.45E+00	pCi/L	100%	*0.65*	6/22/07 05:37 p		0.0482	GPC10F
						1.42E+00	3.00E+00	*(2.1)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7N41AC			Report DB ID: 9JX7N410					
BETA	7.03E+00		3.4E+00	3.6E+00	6.29E+00	pCi/L	100%	*(1.1)*	6/22/07 04:14 p		0.0665	GPC28C
						3.04E+00	4.00E+00	*(3.9)*			L	

No. of Results: 2 Comments:

31

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-8
Client Sample ID: LOWRY

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/23/2007 11:00:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7N11AA			Report DB ID: 9JX7N110					
ALPHA	1.35E+00	U	1.5E+00	1.5E+00	2.40E+00	pCi/L	100%	*0.56*	6/21/07 08:30 p		0.1647	GPC10B
						8.06E-01	3.00E+00	*(1.8)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7N11AC			Report DB ID: 9JX7N110					
BETA	4.30E+00		2.0E+00	2.1E+00	3.81E+00	pCi/L	100%	*(1.1)*	6/22/07 03:25 p		0.141	GPC32C
						1.80E+00	4.00E+00	*(4.)*			L	

No. of Results: 2 Comments:

32

STL Richland
rptSTLRchSample
V5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUSW 005364

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-18
Client Sample ID: MW05-2

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 10:10:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7P11AA			Report DB ID: 9JX7P110					
ALPHA	1.27E+00	U	1.0E+00	1.1E+00	1.69E+00	pCi/L	100%	*0.75*	6/20/07 06:42 p		0.1424	GPC10A
						6.56E-01	3.00E+00	*(2.3)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7P12AC			Report DB ID: 9JX7P120					
BETA	3.28E+00	U	2.0E+00	2.0E+00	3.63E+00	pCi/L	100%	*0.9*	6/26/07 05:13 p		0.103	GPC31A
						1.75E+00	4.00E+00	*(3.2)*			L	

No. of Results: 2 Comments:

33

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 003365

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-19
Client Sample ID: MW05-3

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 11:20:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7P51AA			Report DB ID: 9JX7P510					
ALPHA	2.58E+00	J	1.4E+00	1.5E+00	1.36E+00	pCi/L	100%	(1.9)	6/20/07 06:42 p		0.1168 L	GPC10B
						4.29E-01	3.00E+00	(3.3)				
Batch: 7176318	RICHRC5014			Work Order: JX7P52AC			Report DB ID: 9JX7P520					
BETA	4.65E+00		2.4E+00	2.5E+00	4.34E+00	pCi/L	100%	(1.1)	6/26/07 11:09 a		0.083 L	GPC32A
						2.08E+00	4.00E+00	(3.7)				

No. of Results: 2 Comments:

34

STL Richland
rptSTLRchSample
V5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUV 005366

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-20
Client Sample ID: MW05-4

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 12:15:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7P61AA		Report DB ID: 9JX7P610						
ALPHA	1.26E+00	U	1.0E+00	1.1E+00	1.57E+00	pCi/L	100%	0.8	6/20/07 06:42 p		0.1414	GPC10D
						5.94E-01	3.00E+00	(2.4)			L	
Batch: 7156338	RICHRC5014			Work Order: JX7P62AC		Report DB ID: 9JX7P620						
BETA	2.75E+00	U	1.8E+00	1.9E+00	3.38E+00	pCi/L	100%	0.82	6/26/07 05:13 p		0.1127	GPC31B
						1.62E+00	4.00E+00	(3.)			L	

No. of Results: 2 Comments:

35

STL Richland
pt(STLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 085367

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-21
Client Sample ID: MW05-5

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 12:55:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7P91AA		Report DB ID: 9JX7P910						
ALPHA	1.33E+00	U	1.2E+00	1.2E+00	2.00E+00	pCi/L	100%	*0.67*	6/20/07 08:36 p		0.1263 L	GPC10A
						7.76E-01	3.00E+00	*(2.2)*				
Batch: 7156338	RICHRC5014			Work Order: JX7P91AC		Report DB ID: 9JX7P910						
BETA	3.89E+00	U	2.2E+00	2.3E+00	4.09E+00	pCi/L	100%	*0.95*	6/23/07 10:05 a		0.0991 L	GPC26C
						1.97E+00	4.00E+00	*(3.4)*				

No. of Results: 2 Comments:

36

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 005368

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-16
Client Sample ID: MW05P BLANK

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 2:50:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7PV1AA			Report DB ID: 9JX7PV10					
ALPHA	-8.81E-02	U	4.7E-01	4.7E-01	1.81E+00	pCi/L	100%	*-0.05*	6/21/07 08:30 p		0.1803	GPC10F
						6.06E-01	3.00E+00	*-0.37*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7PV2AC			Report DB ID: 9JX7PV20					
BETA	3.53E+00	U	2.0E+00	2.0E+00	3.64E+00	pCi/L	100%	*0.97*	6/25/07 10:27 a		0.1167	GPC26A
						1.76E+00	4.00E+00	*(3.5)*			L	

No. of Results: 2 Comments:

37

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-3
Client Sample ID: MWA

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 9:50:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NQ1AA			Report DB ID: 9JX7NQ10					
ALPHA	5.68E-01	U	2.3E+00	2.3E+00	5.14E+00	pCi/L	100%	*0.11*	6/22/07 05:37 p		0.0275	GPC10C
						2.09E+00	3.00E+00	*0.49*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7NQ1AC			Report DB ID: 9JX7NQ10					
BETA	1.99E+01		5.5E+00	6.1E+00	9.14E+00	pCi/L	100%	*(2.2)*	6/22/07 04:14 p		0.0423	GPC27D
						4.40E+00	4.00E+00	*(6.6)*			L	

No. of Results: 2 Comments:

38

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005370

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-4
Client Sample ID: MWB

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 9:15:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NR1AA		Report DB ID: 9JX7NR10						
ALPHA	3.10E+00	U	2.8E+00	2.9E+00	4.81E+00	pCi/L	100%	*0.65*	6/22/07 05:37 p		0.0323 L	GPC10D
						1.98E+00	3.00E+00	*(2.1)*				
Batch: 7156335	RICHRC5014			Work Order: JX7NR1AC		Report DB ID: 9JX7NR10						
BETA	9.03E+00		3.5E+00	4.0E+00	6.21E+00	pCi/L	100%	*(1.5)*	6/22/07 04:14 p		0.0616 L	GPC28A
						2.99E+00	4.00E+00	*(4.5)*				

No. of Results: 2 Comments:

39

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUWW 003371

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-25
Client Sample ID: NW-10

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 3:45:00 PM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7QG1AA		Report DB ID: 9JX7QG10						
ALPHA	1.11E+00	U	1.2E+00	1.3E+00	2.23E+00	pCi/L	100%	*0.5*	6/20/07 08:36 p		0.0995	GPC10C
						8.49E-01	3.00E+00	*(1.8)*			L	
Batch: 7156338	RICHRC5014			Work Order: JX7QG1AC		Report DB ID: 9JX7QG10						
BETA	2.50E+00	U	2.1E+00	2.2E+00	4.08E+00	pCi/L	100%	*0.61*	6/23/07 10:05 a		0.095	GPC26D
						1.96E+00	4.00E+00	*(2.3)*			L	

No. of Results: 2 Comments:

40

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NLW 005372

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-1
Client Sample ID: NW-5

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 10:45:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NJ1AA			Report DB ID: 9JX7NJ10					
ALPHA	2.38E+00	U	2.5E+00	2.6E+00	4.42E+00	pCi/L	100%	*0.54*	6/21/07 02:30 p		0.0327	GPC10F
						1.77E+00	3.00E+00	*(1.9)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7NJ1AC			Report DB ID: 9JX7NJ10					
BETA	1.88E+01		5.4E+00	6.0E+00	9.09E+00	pCi/L	100%	*(2.1)*	6/22/07 04:14 p		0.0416	GPC27A
						4.37E+00	4.00E+00	*(6.3)*			L	

No. of Results: 2 Comments:

41

STL Richland
optSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 005373

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-5
Client Sample ID: NW-7

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 9:15:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NT1AA		Report DB ID: 9JX7NT10						
ALPHA	2.00E+00	U	1.5E+00	1.5E+00	2.22E+00	pCi/L	100%	*0.9*	6/22/07 11:04 a		0.1166	GPC10D
						8.49E-01	3.00E+00	*(2.6)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7NT1AC		Report DB ID: 9JX7NT10						
BETA	5.11E+00		2.5E+00	2.7E+00	4.61E+00	pCi/L	100%	*(1.1)*	6/22/07 03:25 p		0.1171	GPC32A
						2.19E+00	4.00E+00	*(3.9)*			L	

No. of Results: 2 Comments:

42

STL Richland
OptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005374

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name: STL Richland
Lot-Sample No.: J7F040111-6
Client Sample ID: NW-8

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 9:50:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NW1AA		Report DB ID: 9JX7NW10						
ALPHA	1.41E+00	U	1.2E+00	1.3E+00	1.87E+00	pCi/L	100%	*0.75*	6/21/07 08:30 p		0.1991 L	GPC10A
						6.61E-01	3.00E+00	*(2.2)*				
Batch: 7156335	RICHRC5014			Work Order: JX7NW1AC		Report DB ID: 9JX7NW10						
BETA	2.91E+00	U	1.8E+00	1.8E+00	3.47E+00	pCi/L	100%	*0.84*	6/22/07 03:25 p		0.1639 L	GPC32B
						1.65E+00	4.00E+00	*(3.2)*				

No. of Results: 2 Comments:

43

STL Richland
StSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 009375

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-2
Client Sample ID: NW-9

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 8:35:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NP1AA		Report DB ID: 9JX7NP10						
ALPHA	2.00E+01		5.1E+00	6.8E+00	3.74E+00	pCi/L	100%	(5.3)	6/22/07 05:37 p		0.0364	GPC10B
						1.46E+00	3.00E+00	(5.9)			L	
Batch: 7156335	RICHRC5014			Work Order: JX7NP1AC		Report DB ID: 9JX7NP10						
BETA	1.79E+01		3.6E+00	4.3E+00	5.58E+00	pCi/L	100%	(3.2)	6/22/07 04:14 p		0.0684	GPC27B
						2.69E+00	4.00E+00	(8.3)			L	

No. of Results: 2 Comments:

44

STL Richland
OptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005376

FORM I

Date: 27-Jun-07

SAMPLE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-14
Client Sample ID: TORGESEN

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/22/2007 10:35:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7PP1AA		Report DB ID: 9JX7PP10						
ALPHA	1.19E+00	U	1.3E+00	1.4E+00	2.38E+00	pCi/L	100%	*0.5*	6/22/07 08:25 p		0.0924	GPC10B
						8.54E-01	3.00E+00	*(1.7)*			L	
Batch: 7156335	RICHRC5014			Work Order: JX7PP1AC		Report DB ID: 9JX7PP10						
BETA	9.60E+00		3.3E+00	3.5E+00	5.83E+00	pCi/L	100%	*(1.6)*	6/22/07 04:15 p		0.0708	GPC31C
						2.81E+00	4.00E+00	*(5.4)*			L	

No. of Results: 2 Comments:

45

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUM: 005377

FORM I

SAMPLE RESULTS

Date: 27-Jun-07

Lab Name:	STL Richland	SDG:	34755	Collection Date:	5/22/2007 10:35:00 AM
Lot-Sample No.:	J7F040111-14	Report No. :	35730	Received Date:	5/31/2007 10:00:00 AM
Client Sample ID:	TORGESEN	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

STL Richland
rptSTLRchSample
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005378

FORM II

Date: 27-Jun-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-18
Client Sample ID: MW05-2 DUP

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 10:10:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156325	RICHRC5014			Work Order: JX7P11AD		Report DB ID: JX7P11DR			Orig Sa DB ID: 9JX7P110			
ALPHA	6.80E-01	U	8.7E-01	8.9E-01	1.67E+00	pCi/L	100%	0.41	6/20/07 06:42 p		0.1421	GPC10C
	1.27E+00	U	RER2 0.8			3.00E+00		(1.5)			L	

No. of Results: 1 Comments:

47

STL Richland
tSTLRchDupV5.1
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMW 003379

FORM II

Date: 27-Jun-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-19
Client Sample ID: MW05-3 DUP

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/17/2007 11:20:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156338	RICHRC5014			Work Order: JX7P51AD		Report DB ID: JX7P51DR			Orig Sa DB ID: 9JX7P520			
BETA	3.49E+00	U	2.5E+00	2.6E+00	4.75E+00	pCi/L	100%	0.73	6/23/07 10:05 a		0.0835	GPC26B
	4.65E+00		RER2 0.6			4.00E+00		(2.7)			L	
Batch: 7176318	RICHRC5014			Work Order: JX7P52AD		Report DB ID: JX7P52DR			Orig Sa DB ID: 9JX7P520			
BETA	2.34E+00	U	2.6E+00	2.6E+00	4.99E+00	pCi/L	100%	0.47	6/26/07 11:09 a		0.0838	GPC32B
	4.65E+00		RER2 1.3			4.00E+00		(1.8)			L	

48

No. of Results: 2 Comments:

STL Richland
rptSTLRchDupV5.1
3 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005380

FORM II

Date: 27-Jun-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-1
Client Sample ID: NW-5 DUP

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 10:45:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: JX7NJ1AD		Report DB ID: JX7NJ1DR			Orig Sa DB ID: 9JX7NJ10			
ALPHA	5.60E+00		3.2E+00	3.5E+00	4.41E+00	pCi/L	100%	(1.3)	6/21/07 06:09 p		0.0332	GPC10F
	2.38E+00	U	RER2 1.5			3.00E+00		(3.2)			L	

No. of Results: 1 Comments:

49

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 27-Jun-07

DUPLICATE RESULTS

Lab Name: STL Richland
Lot-Sample No.: J7F040111-2
Client Sample ID: NW-9 DUP

SDG: 34755
Report No. : 35730
COC No. :

Collection Date: 5/19/2007 8:35:00 AM
Received Date: 5/31/2007 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156335	RICHRC5014			Work Order: JX7NP1AD		Report DB ID: JX7NP1DR			Orig Sa DB ID: 9JX7NP10			
BETA	1.73E+01		3.6E+00	4.3E+00	5.70E+00	pCi/L	100%	(3.)	6/22/07 04:14 p		0.068	GPC27C
	1.79E+01		RER2 0.2			4.00E+00		(8.1)			L	

No. of Results: 1 Comments:

50

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II

Date: 27-Jun-07

BLANK RESULTS

Lab Name: STL Richland

Matrix: WATER

SDG: 34755

Report No. : 35730

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: J0AJG1AA		Report DB ID: J0AJG1AB						
ALPHA	1.51E-02	U	1.6E-01	1.6E-01	3.64E-01	pCi/L	100%	0.04	6/23/07 09:27 a		0.2013	GPC10C
					1.48E-01	3.00E+00		0.19			L	
Batch: 7156325	RICHRC5014			Work Order: J0AJJ1AA		Report DB ID: J0AJJ1AB						
ALPHA	-1.51E-02	U	2.0E-01	2.0E-01	4.68E-01	pCi/L	100%	-0.03	6/21/07 02:30 p		0.2006	GPC10C
					2.00E-01	3.00E+00		-0.15			L	
Batch: 7156335	RICHRC5014			Work Order: J0AKW1AA		Report DB ID: J0AKW1AB						
BETA	1.38E+00	U	8.6E-01	9.0E-01	1.60E+00	pCi/L	100%	0.86	6/22/07 04:15 p		0.1976	GPC31D
					7.68E-01	4.00E+00		(3.1)			L	
Batch: 7156338	RICHRC5014			Work Order: J0ALC1AA		Report DB ID: J0ALC1AB						
BETA	8.12E-01	U	9.1E-01	9.2E-01	1.77E+00	pCi/L	100%	0.46	6/23/07 10:05 a		0.1991	GPC31B
					8.51E-01	4.00E+00		(1.8)			L	
Batch: 7176318	RICHRC5014			Work Order: J1QC61AA		Report DB ID: J1QC61AB						
BETA	2.09E-01	U	8.8E-01	8.8E-01	1.78E+00	pCi/L	100%	0.12	6/26/07 11:09 a		0.2004	GPC32C
					8.57E-01	4.00E+00		0.47			L	

No. of Results: 5 Comments:

STL Richland
OtSTLRchBlank
5.1.3 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMV 005383

FORM II

LCS RESULTS

Date: 27-Jun-07

Lab Name: STL Richland

Matrix: WATER

SDG: 34755

Report No. : 35730

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 7156322	RICHRC5014			Work Order: J0AJG1AC			Report DB ID: J0AJG1CS						
ALPHA	3.20E+01		1.8E+00	7.6E+00	3.94E-01	pCi/L	100%	4.08E+01	1.28E+00	78%	6/23/07 09:27 a	0.1998 L	GPC10D
							Rec Limits:	70	130	-0.2			
Batch: 7156325	RICHRC5014			Work Order: J0AJJ1AC			Report DB ID: J0AJJ1CS						
ALPHA	3.14E+01		1.8E+00	7.5E+00	3.62E-01	pCi/L	100%	4.07E+01	1.28E+00	77%	6/21/07 02:30 p	0.2013 L	GPC10D
							Rec Limits:	70	130	-0.2			
Batch: 7156335	RICHRC5014			Work Order: J0AKW1AC			Report DB ID: J0AKW1CS						
BETA	3.55E+01		2.0E+00	5.0E+00	1.73E+00	pCi/L	100%	4.12E+01	8.19E-01	86%	6/22/07 06:40 p	0.1995 L	GPC26D
							Rec Limits:	70	130	-0.1			
Batch: 7156338	RICHRC5014			Work Order: J0ALC1AC			Report DB ID: J0ALC1CS						
BETA	3.97E+01		2.2E+00	5.4E+00	1.82E+00	pCi/L	100%	4.10E+01	8.16E-01	97%	6/23/07 10:05 a	0.2006 L	GPC31C
							Rec Limits:	70	130	0.0			
Batch: 7176318	RICHRC5014			Work Order: J1QC61AC			Report DB ID: J1QC61CS						
BETA	3.98E+01		2.2E+00	7.3E+00	1.94E+00	pCi/L	100%	4.09E+01	8.12E-01	97%	6/26/07 11:09 a	0.2005 L	GPC32D
							Rec Limits:	70	130	0.0			

No. of Results: 5 Comments:

52

STL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
v5.1.3 A2002

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: Engineers Inc.
Address: 301 West College Avenue, Suite 1
City Silver City State: NM 88061
Phone: P.O. #

Special INSTRUCTIONS

JTF040111
34755
Due 06.21.07

Analyses Requested

Comments

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Description	Date/Time Collected	Gross Alpha	Gross Beta	
10507-6278	MWO5-1	05/17/07 14:50	X	X	JX7PV
10507-6279	DUPLICATE	05/17/07 14:50	X	X	JX7PW
10507-6280	MWO5-2	05/17/07 10:10	X	X	JX7P1
10507-6281	MWO5-3	05/17/07 11:20	X	X	JX7P5
10507-6282	MWO5-4	05/17/07 12:15	X	X	JX7P6
10507-6283	MWO5-5	05/17/07 12:55	X	X	JX7P9
10507-6284	A-1	05/17/07 16:35	X	X	JX7QA
10507-6285	A-2	05/17/07 18:10	X	X	JX7QD
10507-6286	A-2A	05/17/07 17:40	X	X	JX7QE
10507-6287	NW-10	05/17/07 15:45	X	X	JX7QG
10507-6295	A-3	05/18/07 12:55	X	X	JX7QM
10507-6296	A-4	05/18/07 10:35	X	X	JX7QP
10507-6297	A-5	05/18/07 14:10	X	X	JX7QQ
10507-6298	A-6	05/18/07 13:30	X	X	JX7QR
10507-6299	A-7	05/18/07 11:10	X	X	JX7QV
10507-6300	A-8	05/18/07 12:20	X	X	JX7QX
10507-6301	A-9A	05/18/07 11:45	X	X	JX7Q3
10507-6302	A-10	05/18/07 9:40	X	X	JX7Q5

RELINQUISHED BY

Signature: Michelle Deeg
Printed Name: Brielle Deeg
Date/Time: 052907 11000

RECEIVED BY

Signature: S. Smith
Name:
Date/Time: 05/31/07 1000

Lab Use Only

Received Intact? YES NO
Labels and Chain YES NO
Container Sealed? YES NO

NOW 005385

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: Engineers Inc.
Address: 301 West College Avenue, Suite 1
City: Silver City State: NM 88061
Phone: P.O. #

Special INSTRUCTIONS

J7F040111
34755
due 06-21-07

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Desciption	Date/Time Collected	Gross Alpha	Gross Beta	Analyses Requested	Comments
10507-6303	NW-5	05/19/07 10:45	X	X	J X 7 N F	
10507-6304	NW-9	05/19/07 8:35	X	X	J X 7 N P	
10507-6305	MWA	05/19/07 9:50	X	X	J X 7 N Q	
10507-6306	MWB	05/19/07 9:15	X	X	J X 7 N R	
10507-6372	NW-7	05/22/07 9:15	X	X	J X 7 N T	
10507-6373	NW-8	05/22/07 9:50	X	X	J X 7 N W	
10507-6374	ARRMAZ	05/22/07 8:40	X	X	J X 7 N X	
10507-6375	LOWRY	05/22/07 12:35	X	X	J X 7 N 1	
10507-6376	JRS-8	05/22/07 12:00	X	X	J X 7 N 4	
10507-6377	JRS-10	05/22/07 10:50	X	X	J X 7 N 7	
10507-6378	JRS-11	05/22/07 10:25	X	X	J X 7 N 9	
10507-6379	A-11	05/22/07 11:15	X	X	J X 7 P J	
10507-6380	A-12	05/22/07 10:05	X	X	J X 7 P N	
10507-6381	TORGESEN	05/22/07 10:35	X	X	J X 7 P P	
10507-6382	EQUIP BLANK	05/22/07 12:00	X	X	J X 7 P T	

RELINQUISHED BY

Signature: Barbara Deeg
Printed Name: Barbara Deeg
Date/Time: 052907 1600

RECEIVED BY

Signature: S. Smith
Name:
Date/Time: 05/31/07 1000

Lab Use Only

Received Intact? YES NO
Labels and Chain Agree? YES NO
Container Sealed? YES NO

NUW 005386

SEVERN TRENT STL

HALF rec < 5/31/07

Sample Check-in List

Date/Time Received: 6/1/07 10:00AM

Client: ENG SDG #: 34755 NA [ ] SAF #: _____ NA [ ]

Work Order Number: J7F040111 Chain of Custody # _____

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [✓] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 33 2XLP EACH
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] * HAD TO ADJUST PH ON SOME.
11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [✓] No [ ]
13. Description of anomalies (include sample numbers): SAMPLE 6296 BOTTLE 1 WAS SMUDGED AND APPEARS AS 6291.

Sample Custodian: _____ Date: _____

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/1/07

LS-023, 9/03, Rev. 5

SEVERN TRENT STL

Sample Check-in List

Date/Time Received:_____

Client:_____ SDG #:_____NA [ ] SAF #:_____NA [ ]

Work Order Number:_____ Chain of Custody # _____

Shipping Container ID:_____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [ ] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [ ] No [ ]

3. Chain of Custody record present? Yes [ ] No [ ]

4. Cooler temperature:_____ NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

6. Number of samples in shipping container:_____

7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]

8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   _____appropriate samples labels

9. Samples are:
   _____in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ]

11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [✓] No [ ]

13. Description of anomalies (include sample numbers): 6291, 15, 6296, THE SIX SMUDGED OFF INTO A ONE.

Sample Custodian:_____ Date:_____

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date_____

LS-023, 9/03, Rev. 5

ENGINEERS INC

December 21, 2007

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations - Agrium
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Fall 2007 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0702P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Fall 2007 activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO).

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

Wayne A. Ericson, P.E. 12/21/07
Engineers Inc.

Cc: Jim Cagle
Attachments

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com
Our vision is to be the leading professional team, serving our communities with quality and integrity.

GROUND WATER ASSESSMENT REPORT
Fall 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0702P

December 2007

Report

REPORT

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

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1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2**.

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, June and December 2006 and May and October 2007. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-12, MW05-1 through 5, MWA and MWB); wells A-11 and A-12 were drilled in the spring of 2007 in response to a spill incident at the new gypsum stack area, that is located northwest of the original stacks and the chemical plant.

- collection of ground water samples from 17 monitoring wells, four on-site production wells, three offsite production wells (Simplot well JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);

- collection of quality assurance samples, including duplicate samples and an equipment blank;

- submittal of the ground water samples to IAS-Envirochem, Inc., and TAL Richland (formerly Severn Trent Laboratories, Inc. (STL)) for laboratory analysis of the parameters listed in the approved GWMP; and,

- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of all available laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1
Summary of Assessment Activities and Completion Dates

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	2003 – 2005	June-Dec 2006	April-May 2007	October 2007
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--	X A-11 and 12	--
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--		--
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--	--	--
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--	--	--
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X

NUW 005396

In response to a spill incident in late December 2006 at the southeast corner of the Phase I gypsum stack expansion area, northwest of the original gypsum stack area, two new monitoring wells were installed in the Spring of 2007. The new wells were located south of the new stack area on property owned by the Torgesen Ranch, Inc.

The wells were designated as A-11 and A-12. They were located southeast of the Torgesen Ranch residence, near a swale or ditch that is periodically used for irrigation water, because this ditch received acidic water from the gypsum stack spill incident. The location of the new wells is shown on Figure 3.

The drilling depth for both locations was approximately 144 feet below the existing ground surface. The drill holes typically encountered interbedded layers of black, gray and brown basalt. The holes were fitted with two-inch diameter solid and slotted PVC well casing that extended to 140 feet below grade in A-11 and 113 feet below grade in A-12. The water level in A-11 was below the bottom of the casing in October 2007 and within the bottom 6 feet of the casing in A-1 and muddy to very cloudy.

2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-12, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2,** and the locations of the wells are shown on **Figure 3**. These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data Conda Phosphate Operations Fall 2007				
Well ID	Data Collection Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Est. Ground Water Elevation (feet)
A-1	October 2007	6,221.7	34.0	6187.7
A-2	October 2007	6,156.8	12.0	6146.8
A-3	October 2007	6,149.8	>108	Dry
A-4	October 2007	6,149.8	69.0	6080.8
A-5	October 2007	6,150.4	104.4	6046.0
A-6	October 2007	6,150.2	112.0	6038.2
A-7	October 2007	6150.5	112.0	6038.5
A-8	October 2007	6,149.0	127.5	6021.5
A-9A	October 2007	6,146.3	128.5	6018.3
A-10	October 2007	6,124.3	138.0	5986.3
A-11	October 2007	6147	>143.0	Dry
A-12	October 2007	6125	110.0	6015.0
A-2A	October 2007	6,161*	10.6	6150.4
MWA	October 2007	6,155.8	56.0	6099.8
MWB	October 2007	6,162.5	62.0	6100.5
MW05-1	October 2007	6160 *	115.0	6045.0
MW05-2	October 2007	6160*	14.6	6145.4
MW05-3	October 2007	6152*	80.0	6072.0
MW05-4	October 2007	6174*	183.0	5991.0
MW05-05	October 2007	6178*	190.0	5988.0

*Estimated from topographic map

2.2 Ground Water Sampling

In October 2007, ground water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Aquatech LLC for Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; two plant site monitoring wells
- Five new monitoring wells associated with the Phase I gypsum stack expansion
- Two monitoring wells, A-11 and 12
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well, located at the Arr-Maz Products, Inc. facility; and,
- The domestic wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3.**

Table 3
Summary of Field Parameter Readings
Fall 2007

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	7.67	463	8.8
A-2	7.27	714	11.8
A-3	Dry	Dry	Dry
A-4	6.44	2200	7.4
A-5	7.14	1318	9.4
A-6	6.56	2470	9.5
A-7	6.60	3920	12.2
A-8	Dry	Dry	Dry
A-9A	6.76	2360	9.7
A-10	7.29	982	9.7
A-11	Dry	Dry	Dry
A-12	7.52	911	5.9
A-2A	7.34	785	8.4
*NW-1	N/A	N/A	N/A
NW-5	6.76	1941	8.3
NW-7	7.86	807	8.8
*NW-8	N/A	N/A	N/A
NW-9	6.72	1608	9.8
NW-10	7.65	974	9.2
*MT Fuel	N/A	N/A	N/A
JRS 10	6.62	1875	9.8
JRS 11	7.67	569	8.5
ARR-MAZ	7.14	1225	17.2
LOWRY	7.90	648	7.9
TORGESEN	7.56	1297	8.0
MWA	6.2	2810	10.4
MWB	4.4	3350	13.4
JRS-8	6.57	1495	9.2
MW05-1	7.58	737	8.5
MW05-2	7.42	780	7.9
MW05-3	7.54	964	7.4
MW05-4	7.71	744	8.3
MW05-5	7.04	991	8.5

Notes: 1) µS/cm = microSiemens per centimeter; °C = degrees Celsius
* well not sampled; pump not working

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were

operating in an "on demand" mode. Prior to sample collection, sampling ports or valves in the piping on the downstream side of each well pump were opened to remove stagnant water from the fitting. At each location, a minimum of 15 to 20 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.03	mg/L
Ammonia (Total)	350.3	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.7	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	325.2	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.8	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	353.2	1	mg/L
Nitrogen (Total) and TKN	351.4	0.5	mg/L
Orthophosphate	365.1	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.1	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for October 2007 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated downward by several feet as compared to May 2007. Water levels in wells A-2 and A-2A probably reflect the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through October 2007 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevations May 2007 (ft. NGVD)	Ground Water Elevations October 2007 (ft. NGVD)	Ground Water Elevation Difference from 5/07 –10/07 (feet)
A-1	6187.8	6187.7	-0.1
A-2	6139.6	6146.8	-7.2
A-3	6056.0	<6038.8	>-18.0 Dry
A-4	6102.4	6080.8	-21.6
A-5	6064.9	6046.0	-18.9
A-6	6054.1	6038.2	-15.9
A-7	6059.0	6038.5	-20.5
A-8	6041.6	6021.5	-20.1
A-9/A-9A	6043.3	6018.3	-25.0
A-10	5991.2	5986.3	-4.9
A-2A	6147.1	6150.4	+3.3
MW05-1	6054.2	6045.0	-9.2
MW05-2	6145.6	6145.4	-0.2
MW05-3	6092.7	6072.0	-20.7
MW05-4	6005.0	5991.0	-14.0
MW05-5	6002.8	5988.0	-14.8
MW A	6103.3	6099.8	-3.5
MW B	6102.1	6100.5	-1.6
A-11	6025.3	<6004	>-21.3 Dry
A-12	6041.3	6015.0	-26.3

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results, along with a comparison of those results with the referenced water quality standards, is provided in a table contained in **Appendix C**. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-4, A-5, A-6, A-7, A-8, A-9A, A-10, A-12, MW 05-3 and 5, JRS-8 and JRS-10) reveal levels of TDS above the state standard of 500 mg/l. Production wells NW-5, NW-7, NW-9, NW-10 and JRS-10 and the Torgesen and Arr-Maz wells also revealed TDS levels above 500 mg/l. The TDS levels above the state standard are highlighted in the table in Appendix C.

Maps of TDS and ammonia concentrations for October 2007 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

3.4 Spill Impact Assessment

Using typical indicator parameters (TDS, sodium, sulfate, ortho-phosphate, total nitrogen, ammonia and potassium) associated with the plant operations, the water quality in well A-11 appeared to have been impacted by the spill, based on May 2007 sample testing results. While well A-12, which is downslope of well A-11 and had a water level that is higher than A-11 (which appears to indicate a possible hydraulic barrier, along the fault line, between wells A-11 and A-12) did not seem to show impacts from the spill in May 2007. However the fact that well A-11 was dry in October and well A-12 had turbid water in it, a comparison of the October 2007 results to the May 2007 cannot be reliably made.

The lack of elevated ortho-phosphate, sodium, sulfate and ammonia, in the Torgesen Ranch well appears to indicate it had not been impacted by the spill, as of the May and October 2007 sampling events. Table 12 summarizes the comparison of these parameters for various wells in the area west and south of the gypsum stack spill limits.

A gypsum slurry line release was reported to have occurred in late March 2007 between Gypsum ponds 2/3 and the chemical plant area. Water reported flowed in ditches and over land in a southwesterly direction along the railroad tracks. The released water was immediately treated with limestone and/or pumped and returned to the gypsum stack system. Following this spill a ground water monitoring plan was developed. Simplot's production well JRS-10 and the inactive production well JRS-8, which is near the south end of the spill limits was sampled in May and October 2007, as they have been for the past several sampling events.

A comparison of recent historical indicator parameters (ortho-phosphate, pH, conductivity, ammonia, sulfate, sodium and TDS) for wells JRS-8 and JRS-10, appears to indicate no increase in the parameters, thus no measurable impact (as of May and

October 2007) due to the gypsum line spill event in March 2007. The historical comparison is presented in Table 13.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed significantly lower levels (as much 15 to 26 feet) as compared to sampling intervals in May 2007. Wells A-3, A-8 and A-11 were dry, and could not be sampled. Well A-12 had only about 6 feet of water in the casing and the water was very turbid; the well did not recharge fast enough to take a clear sample even at a very low pumping rate.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient and plant monitor wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in up-gradient wells (wells A-1, A-2A, NW-7 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the May 2007 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous and aluminum, as compared to the up gradient background wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the up-gradient wells) collected from the monitoring wells west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The monitoring wells installed in 2005 around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

8) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

9) The water in the Torgesen Ranch well does not appear to show measurable impacts, from the stack spill in late December 2006 based on the May and October 2007 semi-annual sampling events. Well A-11 could not be sampled because it was dry. The sample from A-12 was small and very turbid, thus the analytical results are limited and may be influenced by the water quality, even though the sample was filtered prior to testing.

10) A review of historical indicator parameters for wells JRS-8 and JRS-10, south and downgradient of the March 2007 gypsum line spill limits appears to reveal no measurable impacts from that event, based on the May October 2007 sampling.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (at least semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

3) Deepen wells A-11 and 12 to allow for future sampling even during or after periods of low rain and/or snowfall, like the summer and fall of 2007.

5.0 REFERENCES

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TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	270	222	284	292	208	270	294	278	252
A-2	370	378	416	430	436	412	388	N.S.	N.S.
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.
A-4	455	546	758	644	740	1,074	998	1,002	1,186
A-5	740	552	554	622	646	708	760	824	790
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622
NW-7	470	542	542	498	452	560	562	568	536
NW-8	245	232	328	304	290	322	304	344	308
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548
JRS-11	N.S.	1,350	328	398	342	398	292	370	356
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804
Lowry	N.S.	N.S.	340	422	356	460	290	440	358
Torgesen	645	590	544	588	552	1,494	672	722	762
JRS 8						Wells First Sampled in June 2005			
MW A									
MW B									

NOTE: N.S.= Not sampled

Table 7 Page 2 of 2

TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	
A-1	256	266	298	278	264	280	246	286	A-1
A-2	N.S.	390	N.S.	432	436	426	392	480	A-2
A-3	N.S.	N.S.	N.S.	N.S.	930	822	928	NS	A-3
A-4	1,564	1,810	1,880	1,844	2,238	1,880	1,644	1708	A-4
A-5	730	770	780	800	908	890	896	1000	A-5
A-6	N.S.	N.S.	N.S.	N.S.	2,234	2,368	2,174	1992	A-6
A-7	N.S.	N.S.	N.S.	N.S.	2,728	2,954	2,864	3080	A-7
A-8	N.S.	N.S.	N.S.	N.S.	3,160	2,962	2,806	NS	A-8
A-9/A-9A	1,990	1,764	1,774	1,602	1,858	2,170	2,188	1970	A-9/A-9A
A-10	682	596	650	660	672	674	612	704	A-10
MF Well	N.S.	1,078	1,138	1,080	N.S.	N.S.	N.S.	NS	MF Well
NW-1	1,486	1,664	1,102	1,506	N.S.	N.S.	N.S.	NS	NW-1
NW-5	2,130	1,816	2,432	914	N.S.	658	1,780	1512	NW-5
NW-7	554	554	472	514	556	596	538	604	NW-7
NW-8	328	320	304	312	310	348	284	NS	NW-8
NW-9	N.S.	2,882	1,970	1,526	1,538	1,606	1,316	1500	NW-9
NW-10	686	742	652	670	660	616	594	700	NW-10
JRS-10	1,458	1,534	1,274	1,256	1,366	1,510	1,508	1504	JRS-10
JRS-11	374	402	374	386	396	374	352	368	JRS-11
Arr-Maz	572	682	656	732	728	714	782	824	Arr-Maz
Lowry	418	404	430	404	460	412	398	456	Lowry
Torgesen	812	744	786	816	936	916	904	988	Torgesen
JRS 8			1,256	1,166	1,488	1,202	1,198	1200	JRS-8
MW A			2,860	3,360	3,282	2,794	2,158	2578	MWA
MW B			3,198	3,872	1,826	2,304	8,792	5304	MWB
A--11							1,122	NS	A-11
A-12							720	594	A-12
MW05-1				428	414	446	414	444	MW05-1
MW05-2				486	482	496	444	468	MW05-2
MW05-3				558	432	550	550	618	MW05-03
MW05-4				434	378	440	466	462	MW05-4
MW05-5				702	434	552	542	632	MW05-5

E: N.S.= Not sampled

P\NUW0702P\Fall 2007 Historical Trends - Tables 7-11
TDS

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TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Total Nitrogen Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not sampled

Table 8 Page 2 of 2

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Total Nitrogen Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct. 07	
A-1	1.20	<0.5	<0.5	<0.5	20.1	<0.5	0.9	<0.5	A-1
A-2	N.S.	3.9	N.S.	<0.5	0.7	<0.5	0.7	<0.5	A-2
A-3	N.S.	N.S	N.S.	N.S.	2.3	1.9	<0.5	NS	A-3
A-4	6.00	5.6	8.5	8.5	25.0	18.9	<0.5	11.6	A-4
A-5	1.40	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	1.0	A-5
A-6	N.S.	N.S.	N.S.	N.S.	57.0	34.9	14.9	12.7	A-6
A-7	N.S.	N.S.	N.S.	N.S.	104.0	84	105.2	71.9	A-7
A-8	N.S.	N.S.	N.S.	N.S.	86.0	73	98.4	NS	A-8
A-9/A-9A	7.10	7.3	6.8	6.1	7.8	10.9	10.6	9.4	A-9/A-9A
A-10	8.20	8.0	7.1	7.4	7.4	7.1	6.8	10.1	A-10
MF Well	N.S.	2.7	2.3	1.0	N.S.	N.S.	N.S.	NS	MF Well
NW-1	15.20	20.1	3.5	19.3	N.S.	N.S.	N.S.	NS	NW-1
NW-5	50.70	9.7	41.4	8.9	N.S.	1.7	10.2	14.6	NW-5
NW-7	4.20	3.6	6.4	4.2	3.8	3.4	3.2	3.7	NW-7
NW-8	3.60	2.8	3.1	2.8	3.2	3.0	2.6	NS	NW-8
NW-9	N.S.	23.3	22.9	14.8	27.7	17.0	15.0	17.6	NW-9
NW-10	<1.0	0.7	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	NW-10
JRS-10	23.80	21.4	19.2	16.7	27.8	21.4	22.2	21.6	JRS-10
JRS-11	2.0	1.4	1.5	1.5	1.0	1.2	1.4	1.4	JRS-11
Arr-Maz	1.30	<0.5	1.0	1.0	<0.5	<0.5	<0.5	<0.5	Arr-Maz
Lowry	13.10	12.0	17.4	14.1	17.1	15.7	12.1	13.1	Lowry
Torgesen	35.0	33.2	38.3	39.3	52.0	39	41.0	34.0	Torgesen
JRS 8			16.0	8.1	28.9	13.6	16.7	11.0	JRS 8
MW A			122.0	84.0	237.0	178	225.0	166.0	MW A
MW B			17.8	24.2	9.9	10.5	10.9	31.6	MW B
A-11							12.3	NS	A-11
A-12							1.1	NS	A-12
MW05-1				1.8	2.4	1.6	1.9	1.6	MW05-1
MW05-2				<0.5	<0.5	<0.5	<0.5	<0.5	MW05-2
MW05-3				<0.5	<0.5	<0.5	0.7	2.4	MW05-03
MW05-4				3.70	3.4	1.6	3.5	3.2	MW05-4
MW05-5				1.40	3.0	2.2	2.3	2.0	MW05-5

NOTE: N.S. = Not sampled

Table 9 Page 1 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

	Sulfate Concentrations (mg/L)								
Well ID	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	17	11	11	12	12	12	8	12	13
A-2	29	32	37	36	54	34	42	N.S.	N.S.
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.
A-4	37	40	70	47	60	212	156	135	279
A-5	104	104	119	129	133	167	172	189	193
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	844	535	666	916	125	68	947	781	550
NW-7	166	164	157	81	85	148	146	138	139
NW-8	26	43	27	27	26	28	27	36	27
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167
JRS-10	N.S.	563	554	395	576	694	553	594	592
JRS-11	N.S.	56	55	54	52	53	49	51	53
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36
Lowry	N.S.	N.S.	56	47	51	60	48	51	48
Torgesen	58	55	55	52	55	587	60	61	60
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not Sampled

Table 9 Page 2 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Sulfate Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	
A-1	11	6	6	7	8.0	<5	8	22	A-1
A-2	N.S.	43	N.S.	30	39.0	35	36	40	A-2
A-3	N.S.	N.S.	N.S.	N.S.	118.0	128	15	NS	A-3
A-4	426	502	490	424	600.0	406	330	311	A-4
A-5	188	194	198	205	220.0	197	228	203	A-5
A-6	N.S.	N.S.	N.S.	N.S.	516.0	716	605	508	A-6
A-7	N.S.	N.S.	N.S.	N.S.	975.0	1,103	1,106	1195	A-7
A-8	N.S.	N.S.	N.S.	N.S.	1132.0	1,081	931	NS	A-8
A-9/A-9A	623	557	470	424	582.0	722	668	565	A-9/A-9A
A-10	110	107	101	84	98.0	100	84	112	A-10
MF Well	N.S.	265	269	201	N.S	N.S.	N.S.	NS	MF Well
NW-1	731	610	429	436	N.S	N.S.	N.S.	NS	NW-1
NW-5	804	547	920	184	N.S	168	646	479	NW-5
NW-7	142	137	109	111	148.0	154	134	149	NW-7
NW-8	38	25	27	18	29.0	25	20	NS	NW-8
NW-9	N.S.	937	824	518	647.0	603	538	567	NW-9
NW-10	194	233	199	151	154.0	144	145	156	NW-10
JRS-10	560	549	384	345	424.0	522	521	510	JRS-10
JRS-11	55	49	59	44	60.0	47	44	48	JRS-11
Arr-Maz	34	30	31	26	33.0	30	31	31	Arr-Maz
Lowry	53	48	67	17	61.0	59	47	50	Lowry
Torgesen	60	62	68	54	72.0	71	66	66	Torgesen
JRS 8			464	265	556.0	455	464	445	JRS 8
MW A			1,545	1,546	1121.0	1,025	708	748	MW A
MW B			1,185	1,027	784.0	1,093	579	1608	MW-B
A-11							188	NS	A-11
A-12							33	NS	A-12
MW05-1				19	27	24	25	22	MW05-1
MW05-2				36	49	51	48	43	MW05-2
MW05-3				67	69	65	69	75	MW05-3
MW05-4				20	28	30	31	27	MW05-4
MW05-5				105	70	57	63	81	MW05-5

NOTE: N.S. = Not Sampled

Table 10 Page 2 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Sodium Concentrations (mg/L)							
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07
A-1	5.87	6.57	6.06	6.7	6.1	6.99	6.9	7.1
A-2	N.S.	4.99	N.S.	5.1	4.6	4.72	6.9	6.1
A-3	N.S.	N.S.	N.S.	N.S.	26.9	27.97	31.6	NS
A-4	63.00	108	102	133.0	106.0	72.8	72.3	57.4
A-5	17.80	19.0	13.7	18.3	19.5	20.25	21.7	20.1
A-6	N.S.	N.S.	N.S.	N.S.	279.0	340	265	155.5
A-7	N.S.	N.S.	N.S.	N.S.	569.0	640	549	523.0
A-8	N.S.	N.S.	N.S.	N.S.	532.0	627	576	NS
A-9/A-9A	131	132	96	102.0	124.0	184	213	139.4
A-10	16.30	17.9	16.2	17.4	15.8	17.53	18.00	16.1
MF Well	N.S.	56.4	50.6	48.0	N.S.	N,S	N.S.	NS
NW-1	80.30	116	70	108.0	N.S.	N.S.	N.S.	NS
NW-5	277	223	300	63.0	N.S.	18.34	126	125.0
NW-7	12.0	11.5	12.4	11.5	12.3	13.13	14.0	12.6
NW-8	9.0	8.55	8.34	8.6	9.0	9.51	9.9	NS
NW-9	N.S.	95.8	66.5	62.0	85.8	68.81	71.40	62.3
NW-10	12.0	12.3	13.7	12.0	10.4	11.98	12.9	12.4
JRS-10	100	92.3	72.9	86.0	73.6	100.20	124	109.0
JRS-11	7.0	34.1	8.4	7.3	7.7	8.16	8.5	7.1
Arr-Maz	5.75	6.37	7.00	6.5	6.4	7.39	7.28	6.3
Lowry	22.70	20.4	33.4	21.0	35.8	26.25	29.6	21.2
Torgesen	15.40	18.20	19.30	18.7	19.8	18.79	23.25	18.1
JRS 8			63.5	53.6	78.4	69.84	81.5	69.7
MW A			134.0	160.0	108.0	124	103	91.7
MW B			120.0	164.0	86.0	88.9	75.9	166.4
A-11							84.5	NS
A-12							29.4	12.3
MW05-1				8.0	7.0	8.0	8.0	7.2
MW05-2				5.0	5.0	6.0	5.0	4.5
MW05-3				8.0	7.0	8.0	8.0	7.1
MW05-4				7.0	8.0	7.0	8.0	6.3
MW06-5				23.0	20.0	17.0	15.0	15.5

NOTE: N.S. = NOT Sampled

Table 10 Page 1 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Sodium Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.70
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140.00
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200.00
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.00
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103.00
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.00
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.00
JRS 8									
MW A					Wells not sampled until June 2005				
MW B									

Table 11 Page 1 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Aluminum Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86
JRS 8					Wells not sampled until June 2005				
MW A									
MW B									

Table 11 Page 2 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Aluminum Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	
A-1	<0.03	<0.03	0.4	<0.03	<0.03	<0.03	<0.03	<0.03	A-1
A-2	N.S.	0.14	N.S.	<0.03	<0.03	<0.03	<0.03	<0.03	A-2
A-3	N.S.	N.S.	N.S.	N.S.	0.05	0.06	<0.03	NS	A-3
A-4	0.31	0.22	<0.03	0.46	<0.03	<0.03	<0.03	<0.03	A-4
A-5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	A-5
A-6	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	A-6
A-7	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	A-7
A-8	N.S.	N.S.	N.S.	N.S.	0.07	0.07	<0.03	NS	A-8
A-9/A-9A	0.57	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03	A-9/A-9A
A-10	<0.03	<0.03	<0.03	0.17	<0.03	0.03	<0.03	<0.03	A-10
MF Well	N.S.	<0.03	<0.03	<0.03	N.S	N.S.	N.S.	NS	MF Well
NW-1	1.52	<0.03	0.13	<0.03	N.S	N.S.	N.S.	NS	NW-1
NW-5	<0.03	<0.03	<0.03	<0.03	N.S	<0.03	<0.03	<0.03	NW-5
NW-7	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	0.05	<0.03	NW-7
NW-8	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	NS	NW-8
NW-9	N.S.	94.1	30.7	8.5	20.20	14.50	0.31	0.9	NW-9
NW 10	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	NW-10
JRS-10	<0.03	0.76	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	JRS-10
JRS-11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	JRS-11
Arr-Maz	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	Arr-Maz
Lowry	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	Lowry
Torgesen	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	Torgesen
JRS 8			<0.03	<0.03	<0.03	0.05	<0.03	<0.03	JRS 8
MW A			6.90	8.90	1.43	2.8	1.30	0.76	MW A
MW B			353	308	25.20	26.70	8.9	105	MW B
A-11							<0.03	<0.03	A-11
A-12							<0.03	<0.03	A-12
MW05-1				<0.03	<0.03	<0.03	<0.03	<0.03	MW05-1
MW05-2				<0.03	<0.03	<0.03	<0.03	<0.03	MW05-2
MW05-3				<0.03	<0.03	<0.03	<0.03	<0.03	MW05-3
MW05-4				<0.03	<0.03	<0.03	<0.03	<0.03	MW05-4
MW05-5				0.11	<0.03	<0.03	<0.03	<0.03	MW05-5

Note: N.S. = not sampled

Agrium CPO

Table No. 12

Well No.s

Parameter mg/l		MW-05-5	A-3	A-6	Torgesen	A-11	A-12
TDS	**May-07**	542	928	2174	904	1122	720
	Oct. 2007	*632*	*NA*	*1992*	*988*	*NA*	*594*
Ortho P	**May-07**	0.77	0.94	22.4	0.08	4.2	<0.05
	Oct. 2007	*0.72*	*NA*	*12*	*0.09*	*NA*	*NA*
Potassium	**May-07**	3.4	5.7	20.4	5	11.8	5.2
	Oct. 2007	*3.1*	*NA*	*12*	*4.2*	*NA*	*3.9*
Sodium	**May-07**	14.66	31.6	265	23.25	84.5	29.4
	Oct. 2007	*15.5*	*NA*	*156*	*18.14*	*NA*	*12.3*
Total Nitrogen	**May-07**	2.3	2.7	30.7	41	12.3	1.1
	Oct. 2007	*2*	*NA*	*13*	*34*	*NA*	*NA*
Ammonia	**May-07**	<0.05	< 0.05	16.2	< 0.05	1.29	<0.05
	Oct. 2007	*<0.05*	*NA*	*5.8*	*< 0.05*	*NA*	*NA*
Sulfate	**May-07**	63	150	605	66	188	33
	Oct. 2007	*81*	*NA*	*508*	*66*	*NA*	*NA*

Note 1: Wells A-3 and A-6 are between the original gypsum stack area and wells A-11 and 12

Note 2: Well MW-05-5 is located north of the spill limits and is considered to represent typical background ground water conditions in the gypsum stack area.

Note3: Well A-11 could not be sampled in October 2007 because it was dry.

Note 4: Well A-12 was sampled but the water level was low and the sample was turbid due to very slow well recharge.

Note 5: Well A-3 could not be sampled in October 2007 because it was dry.

NUW0702P
Dec-07

Agrium CPO
Historical Comparison
Wells JRS-8 and 10

Table 13

Well JRS-8 Parameter		May-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct.- 07
				Date				
Ortho P	mg/l	ns	0.9	1.6	1.1	1.1	1.3	1.3
pH		ns	6.6	7.4	6.4	6.5	6.2	6.1
Conductivity	uS	ns	1573	1588	1654	1380	1558	1580
TDS	mg/l	ns	1256	1166	1498	1202	1198	1200
sulfate	mg/l	ns	464	265	556	455	464	445
sodium	mg/l	ns	64	54	78	70	82	70
ammonia	mg/l	ns	<0.05	1.17	0.78	2.22	1.22	1.99

JRS-10 Parameter		May-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct.- 07
Ortho P	mg/l	11.5	5.6	8.7	6.4	9.6	9.7	11.0
pH		6.5	ns	7.1	6.1	6.7	6.2	6.1
Conductivity	uS	2010	1659	1792	1609	1707	1907	2030
TDS	mg/l	1458	1274	1256	1366	1510	1508	1504
sulfate	mg/l	560	384	345	424	522	521	506
sodium	mg/l	100	92	86	74	100	124	109
ammonia	mg/l	8.97	2.9	6	3.8	7.1	6.2	9.5

ns = not sampled

NUW0702P
Dec-07

Figures

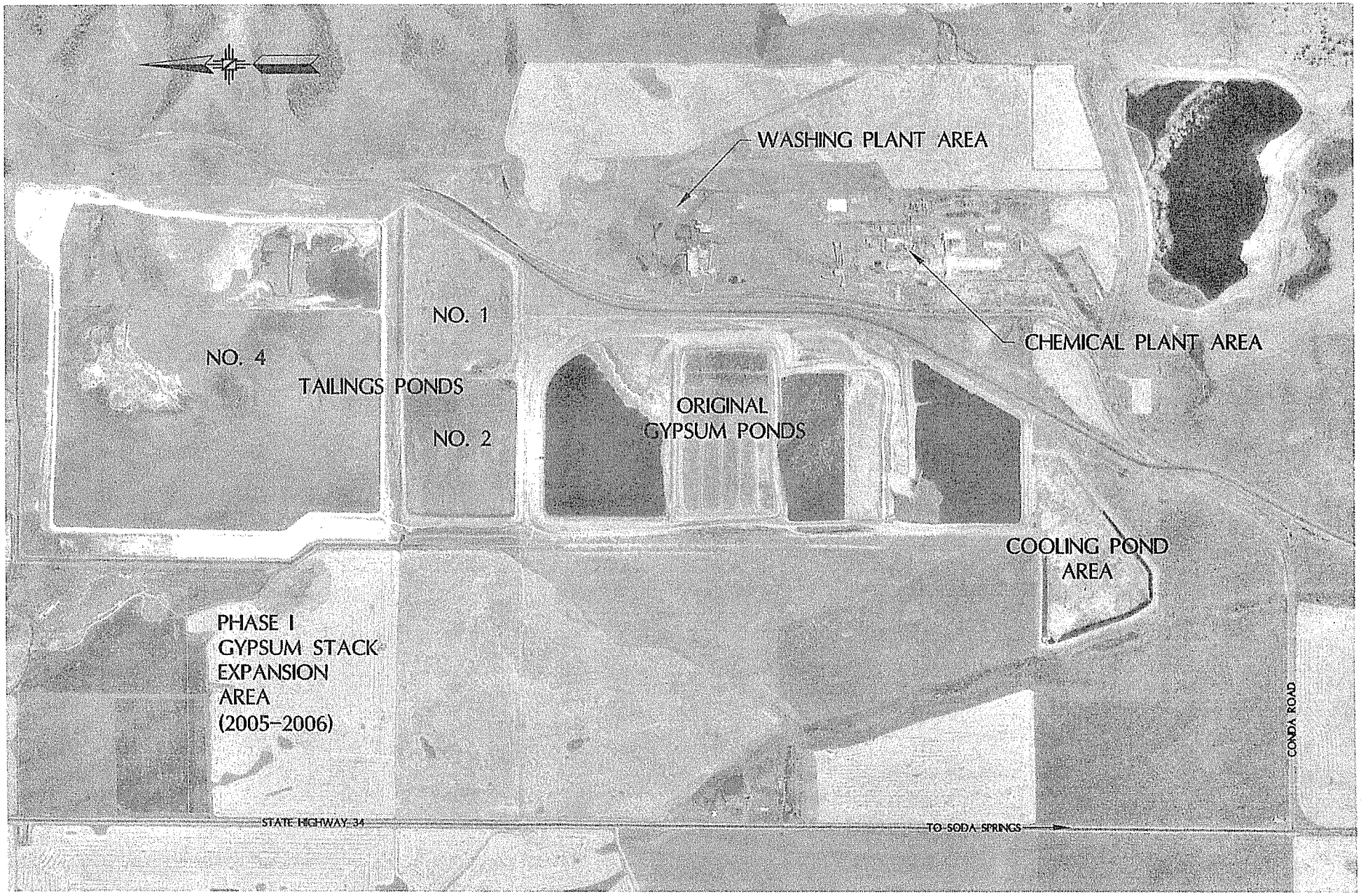
NUW 005421

FIGURES

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC



005423

DATE 09-05-02
JOB # NUW0702P
DWG. BY ONT

REVISIONS
10/05 PAS
3/07 ONT
7/07 EJN
12/07 ONT

FILE: \\ P:\ NUW0702P\ PLANS\FIG1.DWG

PROJECT
OCTOBER 2007
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

ENGINEERS INC
301 W. COLLEGE AVE. SUITE 1
SILVER CITY, NEW MEXICO
(505) 638-5595 (OFFICE)
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TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

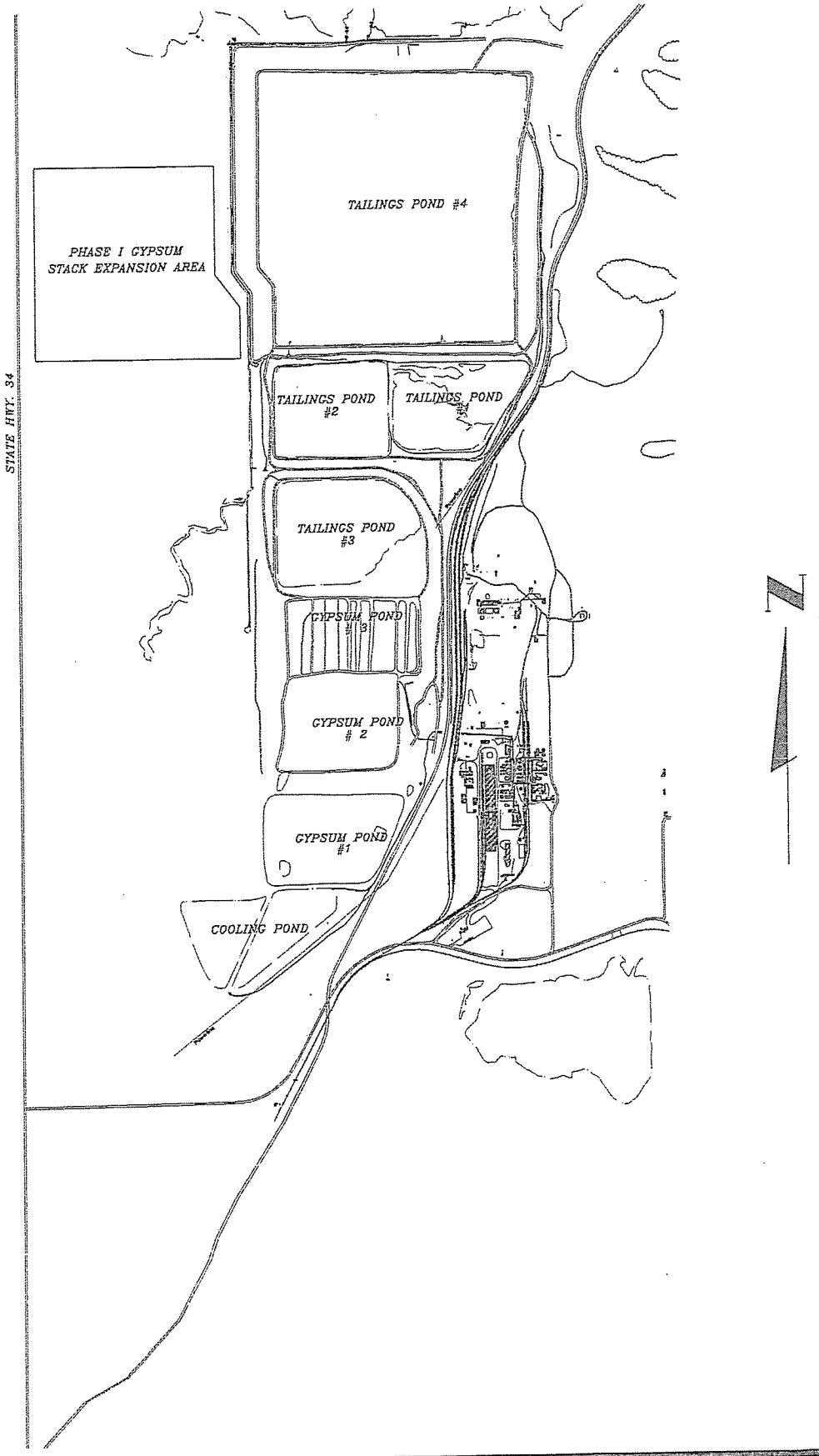

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FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P

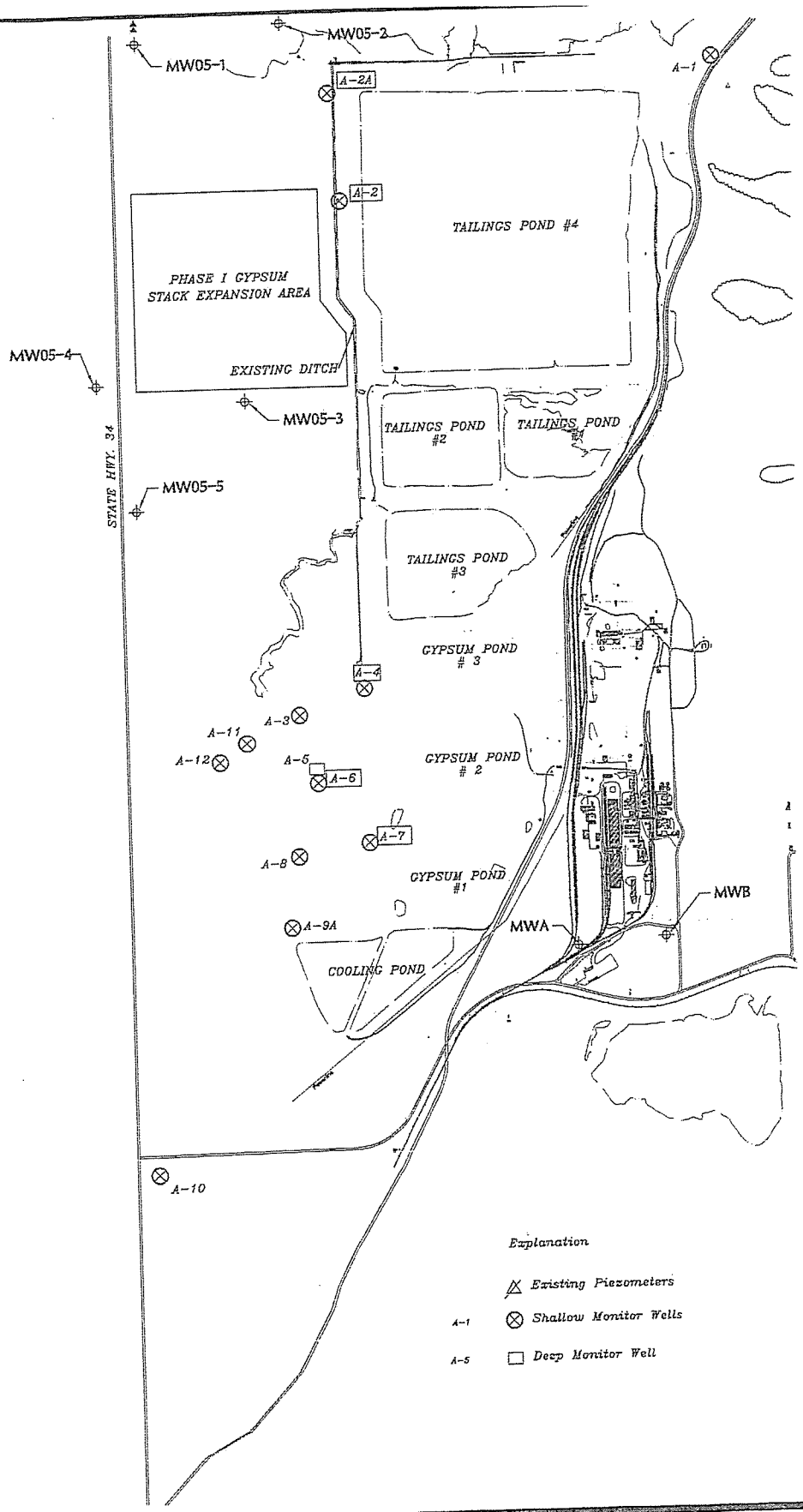

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FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
OCTOBER 2007
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 12/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P

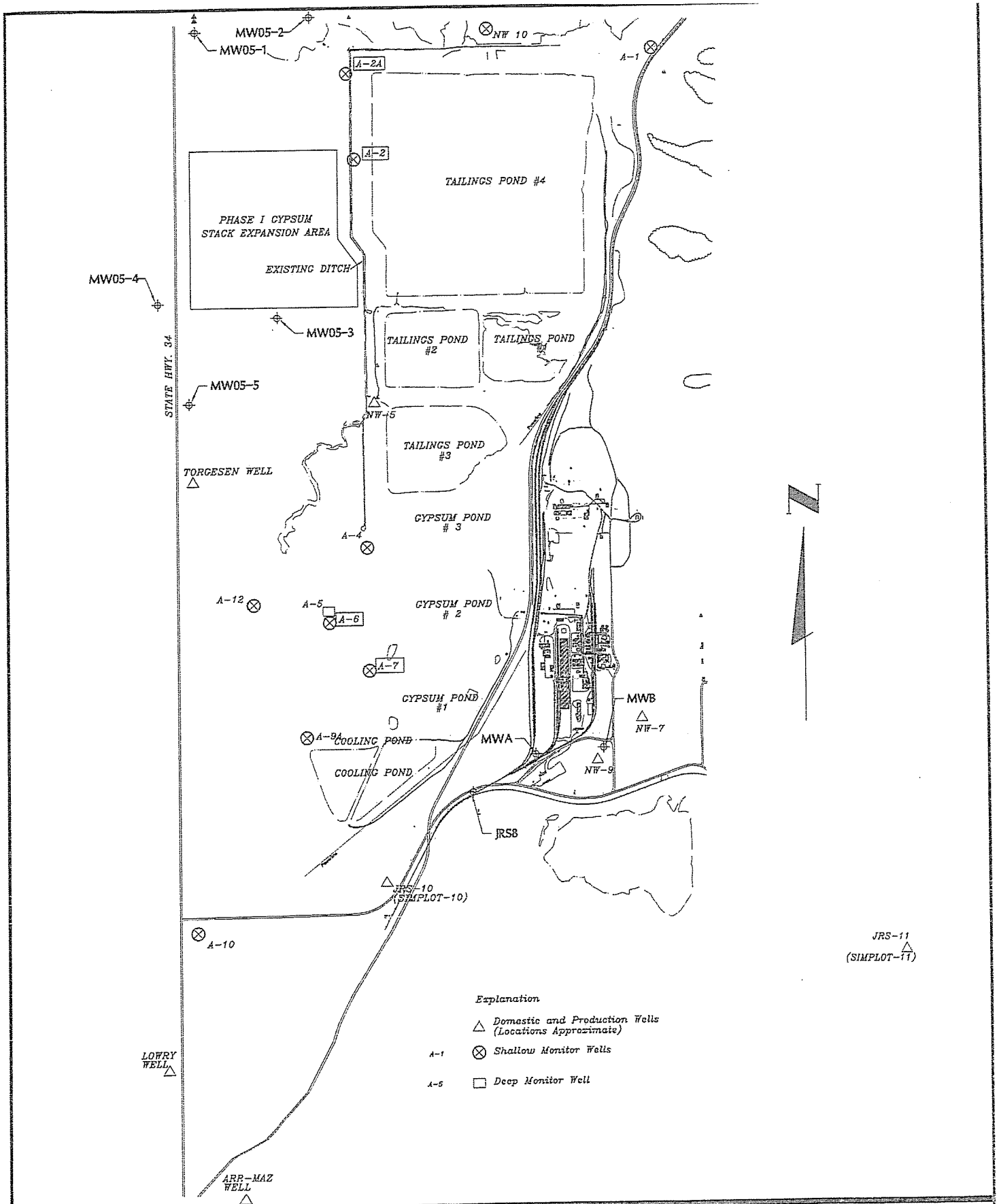

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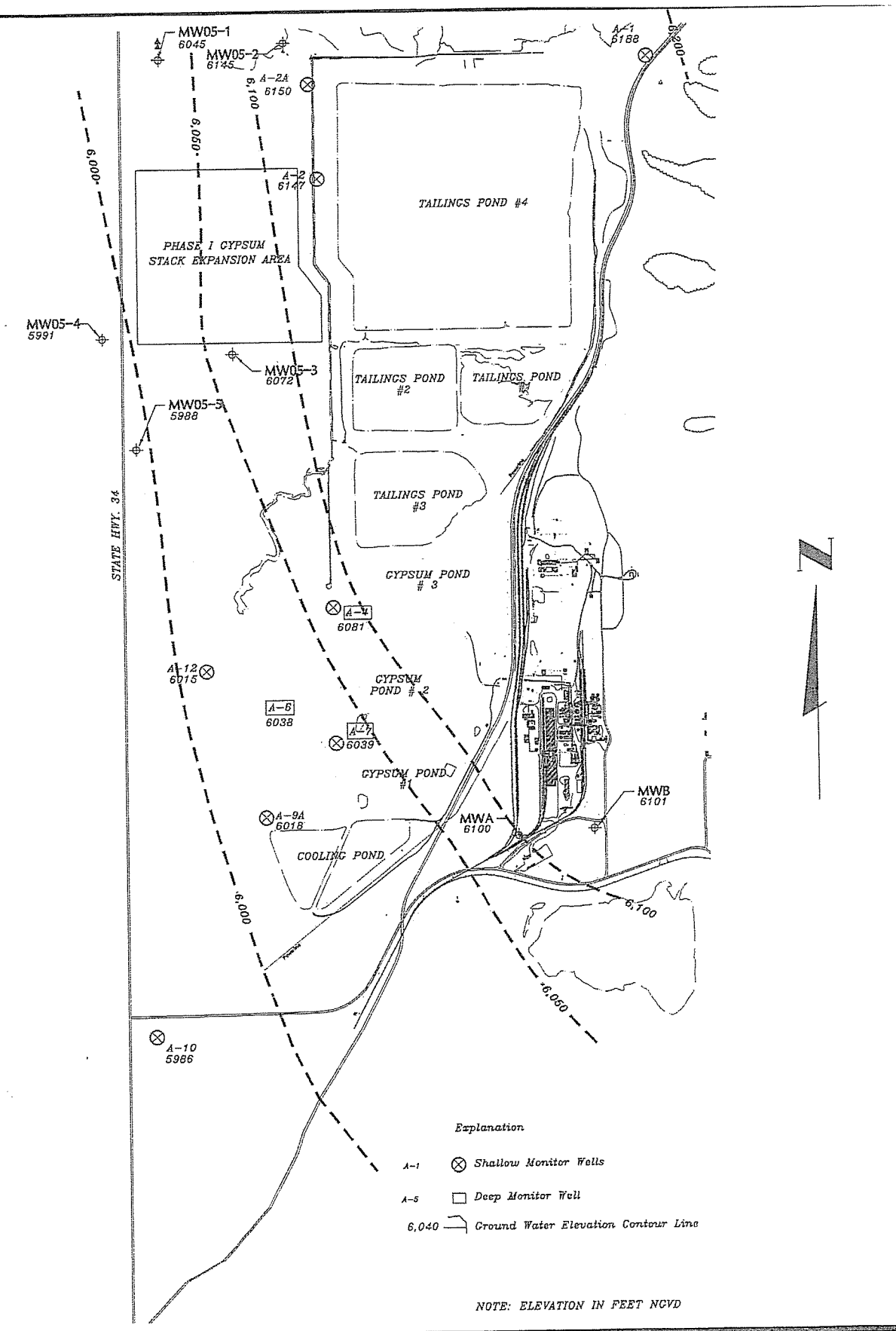
FIGURE 4
GROUND WATER SAMPLING LOCATIONS
OCTOBER 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P



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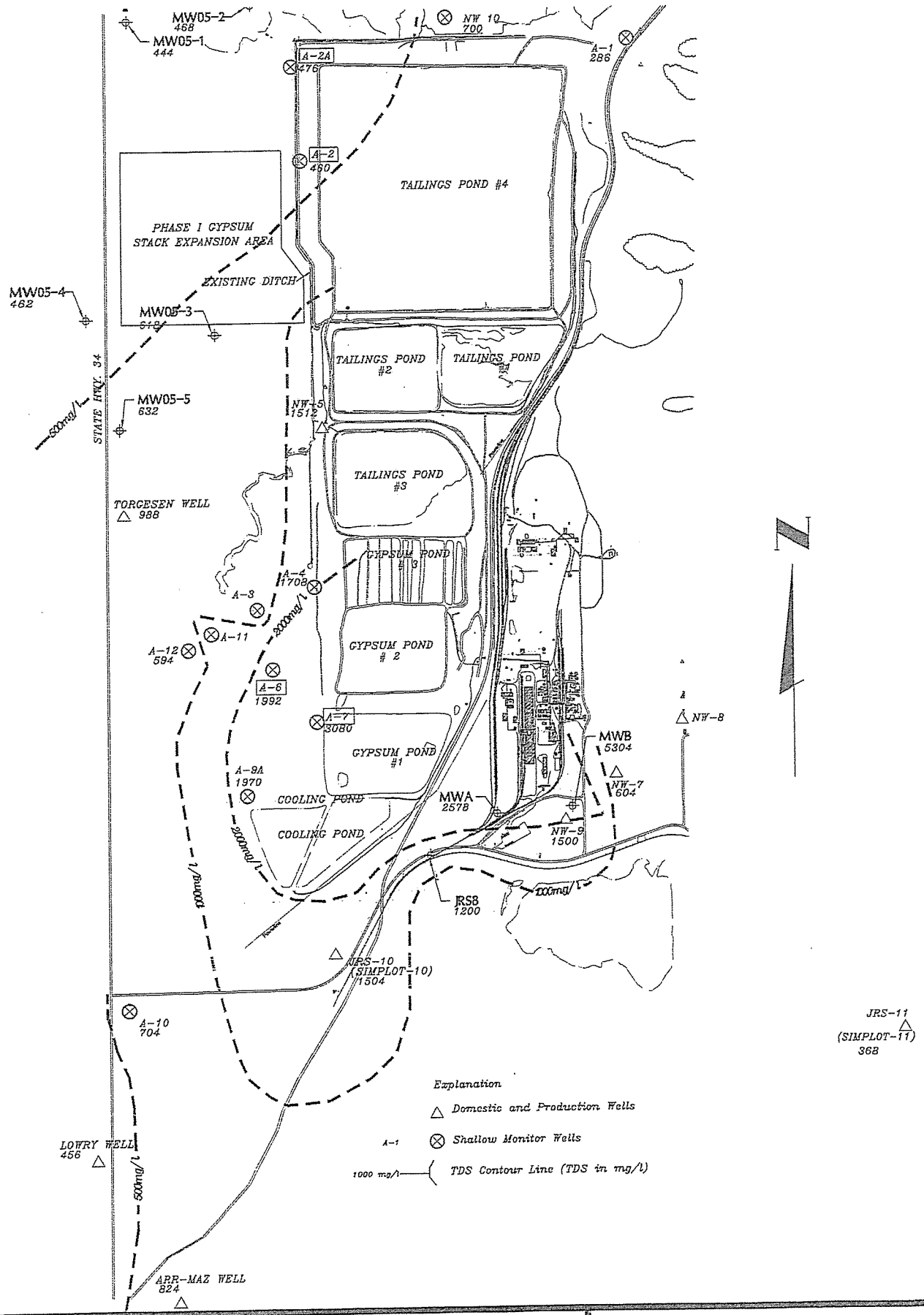
(505)538-5410 (FAX)

FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
OCTOBER 2007
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 12/07 ONT	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P



ENGINEERS INC

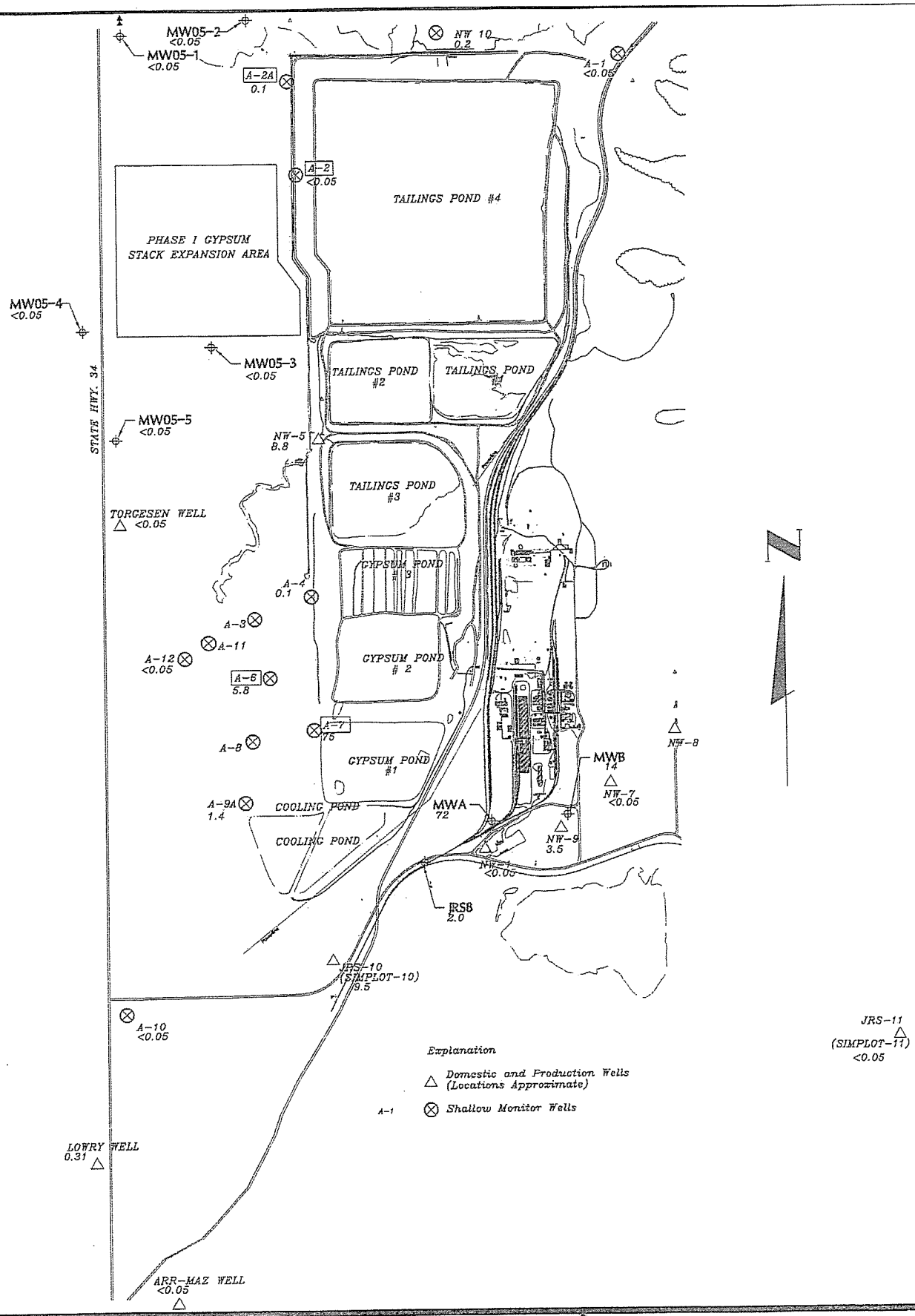
301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061

(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-OCTOBER 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P

NUW 005428



ENGINEERS INC

301 W. COLLEGE AVE.
SUITE #1
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(505)538-5395(OFFICE)
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FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS-OCTOBER 2007
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/07 ONT	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P

APPENDIX A

APPENDIX A

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-1

DAY/DATE: 10/17/07

PERSONNEL: [illegible] / RP

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 67

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 34'

WATER COLUMN HEIGHT (feet) = (a) 67 - (b) 34 = (h) 33

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5 gals

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = ±15 gals.

PUMPING RATE: 0.57 gpm

[Volume of Container (gallons)] 4gal / 7 MIN [Fill time (minutes)] = gallons/minute

~~WC Volume~~ 4gal / Sample	START Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1121	7.29	1059	6.4		Cloudy
2	1138	7.57	472	9.0		sl. Cloudy
3	1141	7.54	465	8.9		
4	1151	7.56	479	8.9		
5						
Sample	1200	7.67	463	8.8		

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [illegible] Date 10/17/07

NUW 005432

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2

DAY/DATE: 101607 TUE

PERSONNEL: WAE AP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 30

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 12

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 12 = (h) 18

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.95

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 8.9

PUMPING RATE 230.85 Hz 3.2A

[Volume of Container (gallons)] 4 / 1.42 [Fill time (minutes)] = 2.8 gallons/minute

3.2 mi

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1305	7.15	711	11.8		CLOUDY
2	1310	7.12	709	11.9		SLT CLOUDY
3						
4						
5						
Sample	1315	7.27	714	11.8		CLEAR

SAMPLE DESCRIPTION:

pump set 25'

WATER IN DITCH.

NOTES:

Signature of Sampling Personnel: By

Date 101607

NUW 005433

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION

DATE/TIME Same

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID A-3

DAY/DATE 10/17/07

PERSONNEL RP / WHG

WELL DIAMETER (inches) (d) 2"

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a) 108±

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) >108

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h) DRY

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION: DRY —

NOTES:

Signature of Sampling Personnel: [signature] Date 10/17/07

NUW 005434

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2A

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 168

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 10 6

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 10 6 = (h) 157.5

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.83

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 77.5

PUMPING RATE 297.57 HZ 3.8A

[Volume of Container (gallons)] 4 / 1.13 [Fill time (minutes)] = 3.5 gallons/minute

22.1/min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1225	7.40	810	8.3		CLEAR
2	1235	7.32	795	8.3		CLEAR
3	1245	7.35	790	8.4		CLEAR
4						
5						
Sample	1250	7.34	785	8.4		CLEAR

SAMPLE DESCRIPTION:

pump set 30'

WATER IN DITCH.

NOTES:

Signature of Sampling Personnel: Pg

Date 101607

NUW 005435

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-4

DAY/DATE: 101607 THE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 115

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 69

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 69 = (h) 46

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 7.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 22.6

PUMPING RATE: 296.48 Hz 3.8 A

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.7 gallons/minute

8.4 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1 START	315	6.44	2210	7.4		cloudy
2	318	6.43	2200	7.4		cloudy
3	321	6.43	2220	7.4		Sl. Cloudy
4						
5						
Sample	324	6.44	2200	7.4		Sl. Cloudy

SAMPLE DESCRIPTION:

Pump set 100'

NOTES:

Signature of Sampling Personnel: [signature] Date 101607

NUW 005436

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-5

DAY/DATE: 10/17/07

PERSONNEL: WAE/RP

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 213

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 104

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 104 = (h) 109

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 18 gals

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 54 gals

PUMPING RATE

[Volume of Container (gallons)] 4 gal / 3 MIN [Fill time (minutes)] = 1.3 gallons/minute

±42 MIN

~~Well volume~~ *4 / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	9:52	7.21	1342	7.9		
2	9:56	7.17	1337	9.3		
3	10:00	7.14	1347	9.4		
+ 4	10:10	7.12	1333	9.5		
5						
Sample	10:30	7.14	1318	9.4		

SAMPLE DESCRIPTION:

set pump @ 140'
10/17/07

NOTES:

Signature of Sampling Personnel: WAE

Date

NUW 005437

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-6

DAY/DATE: 10/17/07

PERSONNEL: RP/UAC

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 119

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite / (Offsite) — (Monitor) / Domestic / Production

DEPTH TO WATER (feet): (b) 112

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 112 = (h) 7

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 1.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 3.5 ±

PUMPING RATE

[Volume of Container (gallons)] 4gal, 6.67 min [Fill time (minutes)] = 0.6 ± gallons/minute

Initially cloudy/muddy

* 4gal ~~Well Volume / Sample~~	Start Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	10:35	6.28	2310	7.2		cloudy → sl. clou
2	10:45	6.56	2420	9.2		sl. cloudy
3						
4						
5						
Sample	10:50	6.56	2470	9.5		sl. cloudy

SAMPLE DESCRIPTION:

Set Pump at 117 ±

NOTES:

Signature of Sampling Personnel: [signature]

Date 10/17/07

NUW 005438

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-7

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 4

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 112

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 112 = (h) 8

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 1.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 3.9

PUMPING RATE: 288.98 Hz 3.2A

[Volume of Container (gallons)] 4 / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1435	6.56	3910	12.2		CLOUDY
2						
3						
4						
5						
Sample	1445	6.60	3920	12.2		CLOUDY

SAMPLE DESCRIPTION:

pump set 118'

NOTES:

- Very slow yielding
- Had to stop & start pump; HAD TO TAKE PART of sample from Bucket stopped pumping

Signature of Sampling Personnel: [signature]

Date 101607

NUW 005439

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION

DATE/TIME SAME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID A-8

DAY/DATE 10/17/07

PERSONNEL RP/WHA

WELL DIAMETER (inches) (d) 2"

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a) 128

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 127.5

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

NOT enough water to sample.

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION: DRY

NOTES:

Signature of Sampling Personnel: [signature] Date 10/17/07

NUW 005440

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: AGA

DAY/DATE: 10/17/07

PERSONNEL: RP/WAA

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 151

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 128'

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 128 = (h) 23'

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 4 gal.

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = ±12 gall.

PUMPING RATE

[Volume of Container (gallons)] 4 / 5 MIN [Fill time (minutes)] = 0.8 gallons/minute

INITIAL SAMPLE BUCKET cloudy

4 gal Well Volume / Sample	Start Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	906	6.92	2360	7.1		cloudy
2	914	6.69	2280	9.6		sl. cloudy
3	919	6.69	2350	9.8	slow pumprate	sl.
4	923	6.74	2370	9.8		clear
5						
Sample	925	6.76	2360	9.7		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature]

Date 10/17/07

NUW 005441

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	A-10
DAY/DATE	10/16/07
PERSONNEL	WAE/RP
WELL DIAMETER (inches) (d)	2"

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

TOP OF CASING ELEVATIN (feet NGVD)

WELL TYPE Onsite Offsite

TOTAL WELL DEPTH (feet) (a) 199

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD)

DEPTH TO WATER (feet): (b) 138.0

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 138 = (h) 61

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 30

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample * 4 gal	START Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
4/3.5 min 1	605	7.21	1247	8.6		Muddy
2	608	7.30	987	9.4		cloudy
3	611	7.31	977	9.8		
4/2.[illegible] 4	614	7.29	984	9.8		cloudy
5	617	7.31	980	9.8		
	621	7.31	985	9.6		cloudy
Sample	625	7.29	987	9.7		cloudy

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101607

NUW 005442

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID A-11

DAY/DATE 10/17/07

PERSONNEL [illegible] / RP

WELL DIAMETER (inches) (d) 2"

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a) 143 ± -

GROUND WATER ELEVATION (feet NGVD)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

EQUIPMENT CALIBRATION

DATE/TIME SAME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

WELL TYPE Onsite Offsite & Torgersen field

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 143'

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION: NOT water in well to sample

NOTES:

Signature of Sampling Personnel: [illegible]

Date 10/17/07

NUW 005443

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	A-12 Torgers Ranch
DAY/DATE	10/17/07
PERSONNEL	WAL / RP
WELL DIAMETER (inches) (d)	2"
TOP OF CASING ELEVATIN (feet NGVD)	
TOTAL WELL DEPTH (feet) (a)	116±
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

WELL TYPE Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 110

WATER COLUMN HEIGHT (feet) = (a) 116 - (b) 110 = (h) 6

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 1 gal

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 3 gal

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Tried to pump @ ≤ 0.5 gpm - pump dry - Muddy

Well Volume / Sample	Start Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1248	7.52	911	5.9		Muddy
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION: 1250 Stopped pumping - surging pumped dry - took large jar for TDS/metals

NOTES: SAMPLE 255

Signature of Sampling Personnel: [signature] Date 10/17/07 V. Turbid

NUW 005444

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-01

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 265

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 115

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 115 = (h) 150

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 24.6

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 73.8

PUMPING RATE 297.19 Hz 3.6 A

[Volume of Container (gallons)] 4 / ~~1.83~~ 1.5 [Fill time (minutes)] = ~~2.2~~ 2.7 gallons/minute

~~33.5 min~~ 27.3 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1 +1/4 gal	10 53	7.54	733	8.3		CLEAR
2	10 57	7.55	734	8.3		CLEAR
3	11 02	7.56	737	8.3		CLEAR
4	11 11	7.54	738	8.4		CLEAR
5						
Sample	11 20	7.58	737	8.5		clear

SAMPLE DESCRIPTION: pump set 140'

NOTES:

Signature of Sampling Personnel: RP

Date 101607

NUW 005445

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-02

DAY/DATE: 101607 THE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 97

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 14.6

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 14.6 = (h) 82.5

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.53

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 40.6

PUMPING RATE: 266.38 Hz 3.5A

[Volume of Container (gallons)] 4 / 1.17 [Fill time (minutes)] = 3.4 gallons/minute

11.9 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1155	7.47	783	7.9		CLEAR
2	1200	7.41	778	7.9		CLEAR
3	1205	7.42	779	7.9		CLEAR
4						
5						
Sample	1210	7.42	780	7.9		CLEAR

SAMPLE DESCRIPTION:

NOTES: Pump set 30'

Signature of Sampling Personnel: [signature] Date 101607

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLOUDY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-03

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 4

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 238

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 80

WATER COLUMN HEIGHT (feet) = (a) 238 - (b) 80 = (h) 158

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.9

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 77.7

PUMPING RATE 311.81 Hz 4.0 A

[Volume of Container (gallons)] 4 / 1.33 [Fill time (minutes)] = 3.0 gallons/minute

25.9 mi

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1 4gal	135					clear
2 8gal	137					V. cloudy / brown
3	140					V. Dark. Brown
4	143					cloudy
5 22gallons	144	7.65	967	7.6		cloudy
	149	7.53	961	7.4		Sl. cloudy
	156	7.53	956	7.4		Sl Cloudy
~~Sample~~	201	7.54	964	7.4		
SAMPLE DESCRIPTION:	204	7.54	964	7.4		V.Sl. Cloudy to Clea

pump set 120'

NOTES:

Signature of Sampling Personnel: [signature] Date 101607

NUW 005447

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-04

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 183

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 183 = (h) 77

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 12.6

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 37.9 gallons

PUMPING RATE 342.75 Hz 4.1 A

[Volume of Container (gallons)] 4 / 1.75 [Fill time (minutes)] = 2.3 gallons/minute

16.5 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1 (4 gal purged)	1020	7.77	770	8.3		Cloudy
2	1023	7.70	754	8.3		Sl. Cloudy
3	1026	7.70	746	8.3		Sl. Cloudy
4	1032	7.70	745	8.3		Sl Cloudy
5	1034	7.70	743	8.3		v. Sl. Cloudy
Sample	1030	7.71	744	8.3		V. Sl. Cloudy.

SAMPLE DESCRIPTION: pump set 205'

NOTES:

Signature of Sampling Personnel: RP

Date 101607

NUW 005448

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	101507	0930	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4.03	7.01	10.00
Conductance (umhos/cm)	1413		
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-05

DAY/DATE: 101607 TUE

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) 190

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 190 = (h) 70

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 11.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 34.4

PUMPING RATE 323.40 Hz 3.8 A

[Volume of Container (gallons)] 4 / 4 [Fill time (minutes)] = 1.0 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1 4gal	0922	7.09	990.0	8.4		SLT CLOUDY
2 8gal	925	7.06	993.0	8.4		V. SLT Cloudy
3 12gal	929	7.07	994.0	8.4		V. Sl. cloudy
4 16gal	933	7.08	987.0	8.4		Clear
5 21	938	7.04	990.0	8.4		clear
	950	7.04	992.0	8.5		Clear
Sample	1000	7.04	991.0	8.5		Clear

SAMPLE DESCRIPTION:

Set pump 210

NOTES:

Signature of Sampling Personnel: Rg

Date 101607

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWA

DAY/DATE: 10/16/07

PERSONNEL: WDE/BP

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 56

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 56 = (h) 64

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 31.5

PUMPING RATE

[Volume of Container (gallons)] ~~4 gallon~~ 1.55 [Fill time (minutes)] = 2.6 gallons/minute

~~Well~~ Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	~~531~~	6.00	2900	9.9		cloudy
2	~~534~~	6.16	2730	10.2		
3	532	6.14	2740	10.4		sl. cloudy
4	540	6.11	2790	10.5		V. sl. cloudy
5	543	6.10	2810	10.5		
Sample	~~1600~~ 1645	6.15	2810	10.4		clear

SAMPLE DESCRIPTION:

Set Pump @ 80 ft

NOTES:

Signature of Sampling Personnel: _____ Date _____

NUW 005450

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWB (near MW 9)

DAY/DATE: 10/16/07

PERSONNEL: RP/WAC

WELL DIAMETER (inches) (d): 2"

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120'

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite / Offsite; Monitor / Domestic / Production

DEPTH TO WATER (feet): (b) 62'

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 62 = (h) 58

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 28 gallons

PUMPING RATE

[Volume of Container (gallons)] ~~4 gal~~ / ~~1.3~~ [Fill time (minutes)] = ~~30 s~~ gallons/minute

*4 gal Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	440	4.64	3340	12.3		14, Kly – white
2	450	4.37	3,360	12.5		stopped purging
3	455	4.41	3320	12.7	cloudy	white sludge
4 SAMPLE	500	4.43	3350	13.4	sl. cloudy	
5						
SAMPLE of two gallons due to surging discharge						
from sampling pump –						
Sample						

Stopped purging @ 456

SAMPLE DESCRIPTION: pump surging well screen may be plugged

NOTES:

Signature of Sampling Personnel: [signature] Date 10/16/07

NUW 005451

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW5

DAY/DATE: 10/16/07

PERSONNEL: RP / WS

WELL DIAMETER (inches) (d): ?

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

DATE/TIME: same

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

WELL TYPE: Onsite ~~Offsite~~

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

X 4gal Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	358	6.77	1912	12.0		
2	401	6.75	1934	9.6		
3	403	6.73	1929	8.9		
4	404	6.74	1936	8.4		
5						
Sample	405	6.76	1941	8.3		

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature]

Date 10/16/07

NUW 005452

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW 7

DAY/DATE: 10/17/07

PERSONNEL: RP/WRe

WELL DIAMETER (inches) (d): 7

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

EQUIPMENT CALIBRATION

DATE/TIME: SAME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.): 4 7 10

Conductance (umhos/cm):

Turbidity (NTU):

D.O. (mg/L) 100%

@ 100% air

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 38'

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Bucket 4gall ~~Well Volume~~ / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	233	8.00	807	8.8		
2	235	7.92	804	8.8		
3	237	7.87	805	8.8		
4						
5						
Sample	240	7.86	807	8.8		

SAMPLE DESCRIPTION: Duplicate Taken

NOTES:

Signature of Sampling Personnel: [signature]

Date 10/17/07

NUW 005453

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-8

DAY/DATE: 101707 WED

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	NO	SAMPLE				

SAMPLE DESCRIPTION:

NOT RUNNING

NOTES:

Signature of Sampling Personnel: _____ Date _____

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW 9

DAY/DATE: 10/16/07

PERSONNEL: WHE/RP

WELL DIAMETER (inches) (d): 7

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 56'

WATER COLUMN HEIGHT (feet) = (a) N/A - (b) N/A = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$(h) = N/A

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

* 4 gals Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	5:07 PM	6.66	1655	9.8		Cloudy
2	5:09	6.62	1638	9.8		cloudy
3	5:14	6.73	1622	9.8		Sl. Cloudy
4	5:16	6.74	1617	9.8		"
5						
Sample	5:18	6.72	1608	9.8		Sl. Cloudy

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 10/16/07

NUW 005455

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	NW-10
DAY/DATE	10/16/07 Tues
PERSONNEL	WAE / RP
WELL DIAMETER (inches) (d)	PROD.
TOP OF CASING ELEVATIN (feet NGVD)	?
TOTAL WELL DEPTH (feet) (a)	?
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME same

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

WELL TYPE (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) ?

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = 4 gallons/minute

* 4gals Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	340	7.73	972	9.6		Sl. Cloudy
2	343	7.64	969	9.3		clear
3	345	7.68	970	9.2		clear
4	346	7.65	975	9.2		
5						
Sample	347	7.65	974	9.2		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 10/16/07

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Mt Fuel

DAY/DATE: 101707 WED

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	NO	SAMPLE				

SAMPLE DESCRIPTION: NOT RUNNING

NOTES:

Signature of Sampling Personnel: _____ Date _____

NUW 005457

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	Same		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS-8

DAY/DATE: 10/8/07 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 64

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 1.25 [Fill time (minutes)] = 3.2 gallons/minute

21.9 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0920	6.66	1485	9.2		Clear
2	0930	6.58	1495	9.3		CLEAR
3	0940	6.56	1494	9.3		CLEAR
4						
5						
Sample	0945	6.57	1495	9.3		CLEAR

SAMPLE DESCRIPTION:

NOTES: Set Pump at 75 ft

Signature of Sampling Personnel: TP

Date 10/8/07

NUW 005458

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	Same		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS-10

DAY/DATE: 101807 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / .4 [Fill time (minutes)] = 10 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0850	6.66	1873	9.8		Clear
2	0855	6.63	1871	9.8		Clear
3	0900	6.61	1876	9.8		Clear
4						
5						
Sample	0905	6.62	1875	9.8		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: TP

Date 101807

NUW 005459

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	CLEAR		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS-11

DAY/DATE: 101807 THURS

PERSONNEL: RP TP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 0.2 [Fill time (minutes)] = 20 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0825	7.71	569	8.5		CLEAR
2	0830	7.68	569	8.5		CLEAR
3	0835	7.68	569	8.5		CLEAR
4						
5						
Sample	0840	7.67	569	8.5		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101807

NUW 005460

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: LOW Ry

DAY/DATE: 101707 WED

PERSONNEL: RP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] 4 / 1 [Fill time (minutes)] = 4 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1540	7.90	647	7.9		CLEAR
2	1550	7.91	647	7.9		CLEAR
3	1555	7.90	648	7.9		CLEAR
4						
5						
Sample	1600	7.90	648	7.9		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 101707

NUW 005461

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	SAME		
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Air Mat

DAY/DATE: 101707 WED

PERSONNEL: WAE RP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

815 – 820 let valve run free ~~8~~ gal/min

*4 gallon Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Fill Bucket 1	820	7.22	1220	17.2		
@ ±4.5 2	823	7.24	1224	17.1		
gpm 3	825	7.15	1227	17.1		
4	826	7.14	1222	17.2		
5	828	7.13	1223	17.2		
Sample	830	7.14	1225	17.2		

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 101707

NUW 005462

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION

DATE/TIME SAME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID Torgesen Barn Well

DAY/DATE 10/17/07

PERSONNEL WAE/RP

WELL DIAMETER (inches) (d) 7

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a) ?

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Hose Bib Flow > 25 gpm

~~Well Volume~~ / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
~~1~~ 1	1:04	7.65	1292	8.0		
2	1:10	7.59	1296	8.1		
3	1:14	7.57	1296	8.0		
4						
5						
Sample	1:15	7.56	1297	8.0		

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Date

NUW 005463

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: EQ BLANK

DAY/DATE: 101807 THURS

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	1025	—	—	—	—	

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 101807

NUW 005464

APPENDIX B

APPENDIX B

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

Appendix B Page 1 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through October 2007

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			11/24/1999	10/25/2000	4/19/2001	7/31/2001	11/11/2001	6/10/2002	10/28/2002	5/6/2003	10/28/03
A-1	6,221.71	6,155.01	6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46
A-2	6,156.75	6,126.55	6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09	
A-3	6,149.77	6,041.77	6,068.35	6,050.29	6,053.88	6,042.97		6,054.70			
A-4	6,149.83	6,034.43	6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68
A-5	6,150.42	5,937.42	6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31
A-6	6,150.18	6,031.08	6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56	
A-7	6,150.47	6,029.27	6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56
A-8	6,148.99	6,021.89	6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65		
A-9/A-9A	6,146.25	5,995.25	6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09
A-10	6,124.25	5,925.15							5,985.16	5,986.58	5983.11

NUW 005467

Appendix B Page 2 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through October 2007

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)							
			5/4/2004	10/25/2004	6/29/2005	10/29/2005	Jun-06	Dec-06	May-07	Oct-07
A-1	6,221.71	6,155.01	6,188.15	6,186.81	6,189.70	6,190.70	6,189.00	6,190.70	6,187.80	6,187.70
A-2	6,156.75	6,126.55		6,134.70	6,127.00	6,146.00	6,144.90	6,144.80	6,139.60	6,146.80
A-3	6,149.77	6,041.77					6,060.40	6,062.80	6,056.00	dry
A-4	6,149.83	6,034.43	6,063.33	6,057.48	6,062.40	6,062.80	6,111.50	6,111.50	6,102.40	6,080.80
A-5	6,150.42	5,937.42	6,033.40	6,030.12	6,032.40	6,029.20	6,067.00	6,066.90	6,064.90	6,046.00
A-6	6,150.18	6,031.08			6,033.40	6,031.90	6,044.20	6,054.20	6,054.10	6,038.20
A-7	6,150.47	6,029.27	6,029.60				6,063.80	6,058.50	6,059.00	6,038.50
A-8	6,148.99	6,021.89					6,037.00	6,035.00	6,041.60	6,021.50
A-9/A-9A	6,146.25	5,995.25	6,011.37	6,009.79	6,011.40	6,010.40	6,039.70	6,036.30	6,043.30	6,018.30
A-10	6,124.25	5,925.15	5,985.20	5,982.45	5,988.30	5,983.30	5,992.00	5,988.30	5,991.20	5,986.30
MW05-1							6,057.60	6,049.20	6,054.20	6,045.00
MW05-2							6,144.30	6,147.00	6,145.60	6,145.40
MW05-3							6,104.00	6,104.50	6,092.70	6,072.00
MW05-4							6,002.00	6,003.00	6,005.00	5,991.00
MW05-5							5,999.80	6,002.20	6,002.80	5,988.00
MWA						6,087.70	6,103.80	6,101.80	6,103.30	6,099.80
MWB						6,089.40	6,103.20	6,101.70	6,102.10	6,100.30
A-11									6,025.30	dry
A-12									6,041.30	6,015.00

APPENDIX C

APPENDIX C

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

Dates submitted 1
Date Reported 11,

110070060	110070049	110070056	110079981	110070050		110079980	110079983	110070058	110070051	110070052
JRS11	TORGESEN	ARRMAZ	NW-5	NW-7	NW8	NW-9	NW-10	JRS8	DUPLICATE	A-1
0/18/07 8:40	10/17/07 13:15	10/17/07 8:30	10/16/07 16:05	10/17/07 14:40		10/16/07 17:18	10/16/07 15:47	10/18/07 9:45	10/17/07 14:40	10/17/07 12:00
<0.03	<0.03	<0.03	<0.03	<0.03	NS*	0.90	<0.03	<0.03	<0.03	<0.03
<0.003	<0.003	<0.003	<0.003	<0.003	NS*	<0.003	<0.003	<0.003	<0.003	<0.003
<0.005	<0.005	<0.005	0.005	<0.005	NS*	0.008	<0.005	<0.005	<0.005	<0.005
0.09	0.09	0.16	0.06	0.14	NS*	<0.05	0.13	0.05	0.13	0.07
<0.002	<0.002	<0.002	<0.002	<0.002	NS*	<0.002	<0.002	<0.002	<0.002	<0.002
100	171	228	220	120	NS*	215	118	217	121	68
<0.002	<0.002	<0.002	<0.002	<0.002	NS*	0.042	<0.002	<0.002	<0.002	<0.002
<0.01	<0.01	<0.01	<0.01	<0.01	NS*	0.02	<0.01	<0.01	<0.01	<0.01
<0.05	<0.05	<0.05	<0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	NS*	0.54	0.25	<0.05	<0.05	<0.05
<0.003	<0.003	<0.003	<0.003	<0.003	NS*	<0.003	<0.003	<0.003	<0.003	<0.003
1.1	4.2	4.8	14.4	4.8	NS*	8.2	2.9	7.2	4.8	1.4
15.3	72.3	65.7	96.1	35.0	NS*	91.2	58.4	58.0	33.7	18.9
<0.01	<0.01	<0.01	0.19	<0.01	NS*	1.11	0.37	0.40	<0.01	<0.01
<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	NS*	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
<0.05	<0.05	<0.05	<0.05	<0.05	NS*	0.13	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05
0.030	<0.003	<0.003	0.021	0.019	NS*	0.008	<0.003	0.012	0.020	<0.003
<0.001	<0.001	<0.001	<0.001	<0.001	NS*	<0.001	<0.001	<0.001	<0.001	<0.001
<0.03	<0.03	<0.03	<0.03	<0.03	NS*	<0.03	<0.03	<0.03	<0.03	<0.03
0.60	0.06	0.46	<0.05	<0.05	NS*	0.20	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	8.8	<0.05	NS*	3.5	0.21	1.99	<0.05	<0.05
224	357	140	483	238	NS*	154	357	434	252	182
224	357	140	483	238	NS*	154	357	434	252	182
<5	<5	<5	<5	<5	NS*	<5	<5	<5	<5	<5
10	59	5	21	19	NS*	52	8	40	19	17
<0.5	<0.5	0.6	<0.5	<0.5	NS*	23.6	<0.5	0.8	<0.5	<0.5
<0.05	0.09	<0.05	13	0.08	NS*	61	0.06	1.2	0.07	<0.05
<0.05	0.09	<0.05	12	0.08	NS*	53	0.05	1.3	0.08	<0.05
1.4	34	<1	4.5	3.7	NS*	14.8	<1.0	10.1	3.7	<1
1.4	34.0	<0.5	14.6	3.7	NS*	17.6	<0.5	11.0	3.7	<0.5
<0.5	<0.5	<0.5	10.1	<0.5	NS*	2.8	<0.5	0.90	<0.5	<0.5
7.14	18.14	6.33	125.0	12.58	NS*	62.31	12.38	69.65	12.51	7.09
590	1372	1354	2030	839	NS*	1701	984	1580	840	472
48	66	31	479	149	NS*	567	156	445	149	22
368	**988**	**824**	**1512**	**604**	NS*	**1500**	**700**	**1200**	**598**	286
<2	6	4	6	<2	NS*	141	6	5	2	<2
6.1	6.9	7.1	6.2	7.3	NS*	6.2	7.1	6.1	7.3	7.3
4.6	2.6	1.3	1.9	5.1	NS*	26.0	1.1	3.1	NA	<1.0
1.6	6.2	10.0	22.0	7.0	NS*	19.0	3.9	8.5	NA	3.4

NUW 0054
nonitial for sample type and methodology
ess or implied, including warranty of
Lunck performed must be governed

070053	110070054		110070055	110079984	110079987	110070061	110079978	110079979	110079973	110079974	110079975	110079976	11007
A-5	A-6	A-8	A-9A	A-7	A-10	EQ BLANK	MW A	MW B	MW 05-01	MW 05-02	MW 05-03	MW 05-04	MW (
07 10:30	10/17/07 10:50		10/17/07 9:28	10/16/07 14:45	10/16/07 18:25	10/18/07 10:25	10/16/07 17:45	10/16/07 17:00	10/16/07 11:20	10/16/07 12:10	10/16/07 14:04	10/16/07 10:36	10/16/0
0.03	<0.03	NS*	<0.03	<0.03	<0.03	<0.03	0.76	105	<0.03	<0.03	<0.03	<0.03	<0.
.003	<0.003	NS*	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.(
.005	0.008	NS*	<0.005	0.024	<0.005	<0.005	0.007	0.125	<0.005	<0.005	<0.005	<0.005	<0.(
.07	0.13	NS*	0.09	<0.05	0.07	<0.05	<0.05	<0.05	0.07	0.07	0.10	0.05	0.(
.002	<0.002	NS*	<0.002	<0.002	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	<0.002	<0.(
72	324	NS*	338	182	138	<1	229	352	92	99	124	95	13
.002	<0.002	NS*	<0.002	<0.002	<0.002	<0.002	0.013	0.586	<0.002	<0.002	<0.002	<0.002	<0.(
0.01	<0.01	NS*	<0.01	<0.01	<0.01	<0.01	0.04	0.27	<0.01	<0.01	<0.01	<0.01	<0.
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05	0.30	<0.05	<0.05	<0.05	<0.05	<0.
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05	18.5	<0.05	0.29	<0.05	<0.05	<0.
.003	<0.003	NS*	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.(
1.2	12.0	NS*	10.1	76.2	4.4	<0.5	16.0	19.7	2.5	1.8	3.1	2.5	3.
0.4	146	NS*	149	198	53.0	<0.1	151	334	44.8	44.9	62.0	43.7	56
0.01	0.05	NS*	0.06	1.5	0.04	<0.01	7.6	17.1	<0.01	0.11	0.03	<0.01	<0.
0008	<0.0008	NS*	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	0.19	2.7	<0.05	<0.05	<0.05	<0.05	<0.
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.
.003	0.005	NS*	<0.003	0.013	<0.003	<0.003	0.005	0.008	<0.003	<0.003	<0.003	<0.003	<0.(
.001	<0.001	NS*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.(
0.03	<0.03	NS*	<0.03	<0.03	<0.03	<0.03	<0.03	0.54	<0.03	<0.03	<0.03	<0.03	<0.
0.05	<0.05	NS*	<0.05	<0.05	<0.05	<0.05	0.07	7.9	<0.05	<0.05	<0.05	<0.05	<0.
0.05	5.8	NS*	1.44	75	<0.05	<0.05	72	14.1	<0.05	<0.05	<0.05	<0.05	<0.
41	833	NS*	784	1092	357	56	91	<5	294	322	378	308	36
41	833	NS*	784	1092	357	56	91	<5	294	322	378	308	36
<5	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
21	35	NS*	37	57	22	<5	194	57	5	<5	6	10	6
0.5	<0.5	NS*	<0.5	<0.5	1.3	<0.5	7	246	<0.5	<0.5	<0.5	<0.5	<0.
.13	13	NS*	1.7	68	0.77	<0.05	13	634	<0.05	<0.05	<0.05	<0.05	0.7
.11	12	NS*	1.5	64	0.70	<0.05	14	557	<0.05	<0.05	<0.05	<0.05	0.7
1.0	8.9	NS*	7.7	2.9	10.1	<1	102	10.6	1.6	<1.0	2.4	3.2	2.(
1.0	12.7	NS*	9.4	71.9	10.1	<0.5	166	31.6	1.6	<0.5	2.4	3.2	2.(
0.5	3.8	NS*	1.7	69	<0.5	<0.5	64	21	<0.5	<0.5	<0.5	<0.5	<0.
0.06	155.5	NS*	139.4	523	16.05	0.05	91.7	166.4	7.17	4.51	7.05	6.28	15.
397	2680	NS*	2600	4550	1009	4.3	3110	3790	733	768	931	743	101
203	508	NS*	565	1195	112	<5	748	1608	22	43	75	27	81
000	**1992**	NS*	**1970**	**3080**	**704**	26	**2578**	**5304**	444	468	**618**	462	**63**
2	171	NS*	4	238	21	<2	12	136	<2	<2	<2	23	<2
7.3	6.1	NS*	6.2	6.9	6.9	7.0	5.6	3.5	7.2	7.0	7.0	7.2	6.(
4	12	NS*	2.1	17	4.2	<1.0	<1.0	35.0	1.1	<1.0	1.8	1	<1.
18	31	NS*	16	93	9.8	<1.0	24	42	7.4	5	4.4	5.1	6.

APPENDIX D

APPENDIX D

GROUND WATER ASSESSMENT REPORT
FALL 2007 ASSESSMENT
NU-WEST INDUSTRIES, INC.

Prepared by

ENGINEERS INC

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc
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Silver City, NM 88061

Date Submitted: 10/17/2007
Date Reported: 11/2/2007

Tracking Number:	110079973	110079974	110079975	110079976
Sample Description:	MW 05-01	MW 05-02	MW 05-03	MW 05-04
Date & Time Collected:	10/16/07 11:20	10/16/07 12:10	10/16/07 14:04	10/16/07 10:36
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.07	0.07	0.10	0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	92	99	124	95
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	0.29	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	2.5	1.8	3.1	2.5
Magnesium mg/L (0.1)	44.8	44.9	62.0	43.7
Manganese mg/L (0.01)	<0.01	0.11	0.03	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Alkalinity mg/L (5)	294	322	378	308
Bicarbonate Alk mg/L (5)	294	322	378	308
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	5	<5	6	10
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ortho-Phosphate:P mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Nitrate as N mg/L (1)	1.6	<1.0	2.4	3.2
Nitrogen Total mg/L (0.5)**	1.6	<0.5	2.4	3.2
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	7.17	4.51	7.05	6.28
Specific Conductance uS (0.5)	733	768	931	743
Sulfate mg/L (5)	22	43	75	27
Total Dissolved Solids mg/L (2)	444	468	618	462
Total Suspended Solids mg/L (2)	<2	<2	<2	23
pH Units	7.2	7.0	7.0	7.2

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INDUSTRIAL • WATER • WASTE • SOIL • GEOCHEMICAL • FIRE ASSAY • QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
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Date Submitted: 10/17/2007
Date Reported: 11/2/2007

Tracking Number:	110079977	110079978	110079979	110079980
Sample Description:	MW 05-05	MW A	MW B	NW-9
Date & Time Collected:	10/16/07 10:00	10/16/07 17:45	10/16/07 17:00	10/16/07 17:18
Aluminum mg/L (0.03)	<0.03	0.76	105	0.90
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	0.007	0.125	0.008
Barium mg/L (0.05)	0.08	<0.05	<0.05	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	0.005	<0.002
Calcium mg/L (1)	130	229	352	215
Cadmium mg/L (0.002)	<0.002	0.013	0.586	0.042
Cobalt mg/L (0.01)	<0.01	0.04	0.27	0.02
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	0.30	<0.05
Iron mg/L (0.05)	<0.05	<0.05	18.5	0.54
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	3.1	16.0	19.7	8.2
Magnesium mg/L (0.1)	56.9	151	334	91.2
Manganese mg/L (0.01)	<0.01	7.6	17.1	1.11
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	0.19	2.7	0.13
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	0.005	0.008	0.008
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	0.54	<0.03
Zinc mg/L (0.05)	<0.05	0.07	7.9	0.20
Ammonia Total mg/L (0.05)	<0.05	72	14.1	3.5
Alkalinity mg/L (5)	364	91	<5	154
Bicarbonate Alk mg/L (5)	364	91	<5	154
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	6	194	57	52
Fluoride mg/L (0.5)	<0.5	7	246	23.6
Phosphorus:P mg/L (0.05)	0.77	13	634	61
Ortho-Phosphate:P mg/L (0.05)	0.72	14	557	53
Nitrate as N mg/L (1)	2.0	102	10.6	14.8
Nitrogen Total mg/L (0.5)**	2.0	166	31.6	17.6
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	64	21	2.8
Sodium mg/L (0.05)	15.53	91.7	166.4	62.31
Specific Conductance uS (0.5)	1012	3110	3790	1701
Sulfate mg/L (5)	81	748	1608	567
Total Dissolved Solids mg/L (2)	632	2578	5304	1500
Total Suspended Solids mg/L (2)	<2	12	136	141
pH Units	6.6	5.6	3.5	6.2

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Silver City, NM 88061

Date Submitted: 10/17/2007
Date Reported: 11/2/2007

Tracking Number:	110079981	110079982	110079983	110079984
Sample Description:	NW-5	A-4	NW-10	A-7
Date & Time Collected:	10/16/07 16:05	10/16/07 15:24	10/16/07 15:47	10/16/07 14:45
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.005	<0.005	<0.005	0.024
Barium mg/L (0.05)	0.06	0.07	0.13	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	220	341	118	182
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	0.25	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	14.4	6.2	2.9	76.2
Magnesium mg/L (0.1)	96.1	141	58.4	198
Manganese mg/L (0.01)	0.19	0.12	0.37	1.5
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.021	0.032	<0.003	0.013
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	8.8	0.13	0.21	75
Alkalinity mg/L (5)	483	882	357	1092
Bicarbonate Alk mg/L (5)	483	882	357	1092
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	21	18	8	57
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	13	0.79	0.06	68
Ortho-Phosphate:P mg/L (0.05)	12	0.64	0.05	64
Nitrate as N mg/L (1)	4.5	11.6	<1.0	2.9
Nitrogen Total mg/L (0.5)**	14.6	11.6	<0.5	71.9
Nitrogen Total Kjeldahl mg/L (0.5)	10.1	<0.5	<0.5	69
Sodium mg/L (0.05)	125.0	57.39	12.38	523
Specific Conductance uS (0.5)	2030	2330	984	4550
Sulfate mg/L (5)	479	311	156	1195
Total Dissolved Solids mg/L (2)	1512	1708	700	3080
Total Suspended Solids mg/L (2)	6	51	6	238
pH Units	6.2	6.0	7.1	6.9

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Engineers, Inc
301 W. College Ave, Suite 1
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Date Submitted: 10/17/2007-10/18/2007
Date Reported: 11/2/2007

Tracking Number:	110079985	110079986	110079987	110070049
Sample Description:	A-2	A-2A	A-10	TORGESEN
Date & Time Collected:	10/16/07 13:15	10/16/07 12:50	10/16/07 18:25	10/17/07 13:15
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.08	0.09	0.07	0.09
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	101	99	138	171
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	0.44	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	1.4	2.5	4.4	4.2
Magnesium mg/L (0.1)	42.7	48.4	53.0	72.3
Manganese mg/L (0.01)	<0.01	0.44	0.04	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	0.06
Ammonia Total mg/L (0.05)	<0.05	0.10	<0.05	<0.05
Alkalinity mg/L (5)	308	322	357	357
Bicarbonate Alk mg/L (5)	308	322	357	357
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	5	5	22	59
Fluoride mg/L (0.5)	0.7	<0.5	1.3	<0.5
Phosphorus:P mg/L (0.05)	<0.05	0.15	0.77	0.09
Ortho-Phosphate:P mg/L (0.05)	<0.05	0.12	0.70	0.09
Nitrate as N mg/L (1)	<1.0	<1.0	10.1	34
Nitrogen Total mg/L (0.5)**	<0.5	<0.5	10.1	34.0
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	6.05	6.13	16.05	18.14
Specific Conductance uS (0.5)	731	771	1009	1372
Sulfate mg/L (5)	40	38	112	66
Total Dissolved Solids mg/L (2)	460	476	704	988
Total Suspended Solids mg/L (2)	6	4	21	6
pH Units	7.2	7.1	6.9	6.9

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - GA/GC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 10/18/2007
Date Reported: 11/2/2007

Tracking Number:	110070050	110070051	110070052	110070053
Sample Description:	NW-7	DUPLICATE	A-1	A-5
Date & Time Collected:	10/17/07 14:40	10/17/07 14:40	10/17/07 12:00	10/17/07 10:30
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.14	0.13	0.07	0.07
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	120	121	68	72
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	4.8	4.8	1.4	11.2
Magnesium mg/L (0.1)	35.0	33.7	18.9	30.4
Manganese mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.019	0.020	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Ammonia Total mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Alkalinity mg/L (5)	238	252	182	441
Bicarbonate Alk mg/L (5)	238	252	182	441
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	19	19	17	21
Fluoride mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	0.08	0.07	<0.05	0.13
Ortho-Phosphate:P mg/L (0.05)	0.08	0.08	<0.05	0.11
Nitrate as N mg/L (1)	3.7	3.7	<1	1.0
Nitrogen Total mg/L (0.5)**	3.7	3.7	<0.5	1.0
Nitrogen Total Kjeldahl mg/L (0.5)	<0.5	<0.5	<0.5	<0.5
Sodium mg/L (0.05)	12.58	12.51	7.09	20.06
Specific Conductance uS (0.5)	839	840	472	1397
Sulfate mg/L (5)	149	149	22	203
Total Dissolved Solids mg/L (2)	604	598	286	1000
Total Suspended Solids mg/L (2)	<2	2	<2	2
pH Units	7.3	7.3	7.3	7.3

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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INDUSTRIAL • WATER • WASTE • SOIL • GEOCHEMICAL • FIRE ASSAY • QA/QC

Engineers, Inc
301 W. College Ave, Suite 1
Silver City, NM 88061

Date Submitted: 10/18/2007
Date Reported: 11/2/2007

Tracking Number:	110070054	110070055	110070056	110070057
Sample Description:	A-6	A-9A	ARRMAZ	LOWRY
Date & Time Collected:	10/17/07 10:50	10/17/07 9:28	10/17/07 8:30	10/17/07 10:00
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	0.008	<0.005	<0.005	<0.005
Barium mg/L (0.05)	0.13	0.09	0.16	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	324	338	228	81
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	12.0	10.1	4.8	4.2
Magnesium mg/L (0.1)	146	149	65.7	18.9
Manganese mg/L (0.01)	0.05	0.06	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.005	<0.003	<0.003	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	0.46	0.31
Ammonia Total mg/L (0.05)	5.8	1.44	<0.05	<0.05
Alkalinity mg/L (5)	833	784	140	252
Bicarbonate Alk mg/L (5)	833	784	140	252
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	35	37	5	46
Fluoride mg/L (0.5)	<0.5	<0.5	0.6	<0.5
Phosphorus:P mg/L (0.05)	13	1.7	<0.05	0.07
Ortho-Phosphate:P mg/L (0.05)	12	1.5	<0.05	0.07
Nitrate as N mg/L (1)	8.9	7.7	<1	13.1
Nitrogen Total mg/L (0.5)**	12.7	9.4	<0.5	13.1
Nitrogen Total Kjeldahl mg/L (0.5)	3.8	1.7	<0.5	<0.5
Sodium mg/L (0.05)	155.5	139.4	6.33	21.19
Specific Conductance uS (0.5)	2680	2600	1354	672
Sulfate mg/L (5)	508	565	31	50
Total Dissolved Solids mg/L (2)	1992	1970	824	456
Total Suspended Solids mg/L (2)	171	4	4	<2
pH Units	6.1	6.2	6.7	7.1

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Engineers, Inc
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Date Submitted: 10/18/2007
Date Reported: 11/2/2007

Tracking Number:	110070058	110070059	110070060	110070061
Sample Description:	JRS8	JRS110	JRS11	EQ BLANK
Date & Time Collected:	10/18/07 9:45	10/18/07 9:05	10/18/07 8:40	10/18/07 10:25
Aluminum mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Antimony mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Arsenic mg/L (0.005)	<0.005	0.008	<0.005	<0.005
Barium mg/L (0.05)	0.05	0.15	0.09	<0.05
Beryllium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Calcium mg/L (1)	217	232	100	<1
Cadmium mg/L (0.002)	<0.002	<0.002	<0.002	<0.002
Cobalt mg/L (0.01)	<0.01	<0.01	<0.01	<0.01
Chromium mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Copper mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Iron mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Lead mg/L (0.003)	<0.003	<0.003	<0.003	<0.003
Potassium mg/L (0.5)	7.2	11.5	1.1	<0.5
Magnesium mg/L (0.1)	58.0	95	15.3	<0.1
Manganese mg/L (0.01)	0.40	0.09	<0.01	<0.01
Mercury mg/L (0.0008)	<0.0008	<0.0008	<0.0008	<0.0008
Nickel mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Silver mg/L (0.05)	<0.05	<0.05	<0.05	<0.05
Selenium mg/L (0.003)	0.012	0.008	0.030	<0.003
Thallium mg/L (0.001)	<0.001	<0.001	<0.001	<0.001
Vanadium mg/L (0.03)	<0.03	<0.03	<0.03	<0.03
Zinc mg/L (0.05)	<0.05	<0.05	0.60	<0.05
Ammonia Total mg/L (0.05)	1.99	9.5	<0.05	<0.05
Alkalinity mg/L (5)	434	224	224	56
Bicarbonate Alk mg/L (5)	434	224	224	56
Carbonate Alkalinity mg/L (5)	<5	<5	<5	<5
Chloride mg/L (5)	40	36	10	<5
Fluoride mg/L (0.5)	0.8	<0.5	<0.5	<0.5
Phosphorus:P mg/L (0.05)	1.2	11	<0.05	<0.05
Ortho-Phosphate:P mg/L (0.05)	1.3	11	<0.05	<0.05
Nitrate as N mg/L (1)	10.1	14.6	1.4	<1
Nitrogen Total mg/L (0.5)**	11.0	21.6	1.4	<0.5
Nitrogen Total Kjeldahl mg/L (0.5)	0.90	7.0	<0.5	<0.5
Sodium mg/L (0.05)	69.65	109.3	7.14	0.05
Specific Conductance uS (0.5)	1580	2030	590	4.3
Sulfate mg/L (5)	445	506	48	<5
Total Dissolved Solids mg/L (2)	1200	1504	368	26
Total Suspended Solids mg/L (2)	5	211	<2	<2
pH Units	6.1	6.1	6.1	7.0

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Engineers, Inc
301 W. College Ave, Suite 1
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Date Submitted: 10/18/2007
Date Reported: 11/2/2007

Tracking Number:	110070062			
Sample Description:	A-12			
Date & Time Collected:	10/17/07 12:48			
Aluminum mg/L (0.03)	<0.03			
Antimony mg/L (0.003)	<0.003			
Arsenic mg/L (0.005)	<0.005			
Barium mg/L (0.05)	0.15			
Beryllium mg/L (0.002)	<0.002			
Calcium mg/L (1)	129			
Cadmium mg/L (0.002)	<0.002			
Cobalt mg/L (0.01)	<0.01			
Chromium mg/L (0.05)	<0.05			
Copper mg/L (0.05)	<0.05			
Iron mg/L (0.05)	<0.05			
Lead mg/L (0.003)	<0.003			
Potassium mg/L (0.5)	3.9			
Magnesium mg/L (0.1)	47.4			
Manganese mg/L (0.01)	0.43			
Mercury mg/L (0.0008)	<0.0008			
Nickel mg/L (0.05)	<0.05			
Silver mg/L (0.05)	<0.05			
Selenium mg/L (0.003)	0.005			
Thallium mg/L (0.001)	<0.001			
Vanadium mg/L (0.03)	<0.03			
Zinc mg/L (0.05)	<0.05			
Ammonia Total mg/L (0.05)	NO SAMPLE			
Alkalinity mg/L (5)	NO SAMPLE			
Bicarbonate Alk mg/L (5)	NO SAMPLE			
Carbonate Alkalinity mg/L (5)	NO SAMPLE			
Chloride mg/L (5)	NO SAMPLE			
Fluoride mg/L (0.5)	NO SAMPLE			
Phosphorus:P mg/L (0.05)	NO SAMPLE			
Ortho-Phosphate:P mg/L (0.05)	NO SAMPLE			
Nitrate as N mg/L (1)	NO SAMPLE			
Nitrogen Total mg/L (0.5)**	NO SAMPLE			
Nitrogen Total Kjeldahl mg/L (0.5)	NO SAMPLE			
Sodium mg/L (0.05)	12.26			
Specific Conductance uS (0.5)	NO SAMPLE			
Sulfate mg/L (5)	NO SAMPLE			
Total Dissolved Solids mg/L (2)	594			
Total Suspended Solids mg/L (2)	NO SAMPLE			
pH Units	NO SAMPLE			

G. Ryan Pattie/ag
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

IAS-EnviroChem, warrants the test results, from accepted analytical work, to be of precision normal for sample type and methodology employed for each sample submitted. IAS-EnviroChem disclaims any other warranties, express or implied, including warranty of fitness for a particular purpose and warranty which the client used test results. Any analytical work performed must be governed he terms and conditions set forth herein.

Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

TAL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLR

Data Package Contains _____ Pages

Report No.: 37479

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
36429		A-1	J7J230300-19	J9M581AA	9J9M5810	7296661
		A-1	J7J230300-19	J9M581AC	9J9M5810	7296668
		A-10	J7J230300-15	J9M5W1AA	9J9M5W10	7296661
		A-10	J7J230300-15	J9M5W1AC	9J9M5W10	7296668
		A-2	J7J230300-13	J9M5Q1AA	9J9M5Q10	7296658
		A-2	J7J230300-13	J9M5Q1AC	9J9M5Q10	7296665
		A-2A	J7J230300-14	J9M5T1AA	9J9M5T10	7296658
		A-2A	J7J230300-14	J9M5T1AC	9J9M5T10	7296665
		A-4	J7J230300-10	J9M5L1AA	9J9M5L10	7296658
		A-4	J7J230300-10	J9M5L1AC	9J9M5L10	7296665
		A-5	J7J230300-20	J9M6A1AA	9J9M6A10	7296661
		A-5	J7J230300-20	J9M6A1AC	9J9M6A10	7296668
		A-6	J7J230300-21	J9M6C1AA	9J9M6C10	7296661
		A-6	J7J230300-21	J9M6C1AC	9J9M6C10	7296668
		A-7	J7J230300-12	J9M5P1AA	9J9M5P10	7296658
		A-7	J7J230300-12	J9M5P1AC	9J9M5P10	7296665
		A-9A	J7J230300-22	J9M6E1AA	9J9M6E10	7296661
		A-9A	J7J230300-22	J9M6E1AC	9J9M6E10	7296668
		ARRMAZ	J7J230300-23	J9M6L1AA	9J9M6L10	7296661
		ARRMAZ	J7J230300-23	J9M6L1AC	9J9M6L10	7296668
		DUPLICATE	J7J230300-18	J9M541AA	9J9M5410	7296661
		DUPLICATE	J7J230300-18	J9M541AC	9J9M5410	7296668
		EQ BLANK	J7J230300-28	J9M6V1AA	9J9M6V10	7296661
		EQ BLANK	J7J230300-28	J9M6V1AC	9J9M6V10	7296668
		JRS-10	J7J230300-26	J9M6R1AA	9J9M6R10	7296661
		JRS-10	J7J230300-26	J9M6R1AC	9J9M6R10	7296668

Report No.: 37479

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
36429		JRS-11	J7J230300-27	J9M6T1AA	9J9M6T10	7296661
		JRS-11	J7J230300-27	J9M6T1AC	9J9M6T10	7296668
		JRS-11	J7J230300-27	J9M6T2AC	9J9M6T20	7296668
		JRS-8	J7J230300-25	J9M6P1AA	9J9M6P10	7296661
		JRS-8	J7J230300-25	J9M6P1AC	9J9M6P10	7296668
		LOWRY	J7J230300-24	J9M6M1AA	9J9M6M10	7296661
		LOWRY	J7J230300-24	J9M6M1AC	9J9M6M10	7296668
		MW05-01	J7J230300-1	J9M461AA	9J9M4610	7296658
		MW05-01	J7J230300-1	J9M461AC	9J9M4610	7296665
		MW05-02	J7J230300-2	J9M491AA	9J9M4910	7296658
		MW05-02	J7J230300-2	J9M491AC	9J9M4910	7296665
		MW05-03	J7J230300-3	J9M5C1AA	9J9M5C10	7296658
		MW05-03	J7J230300-3	J9M5C1AC	9J9M5C10	7296665
		MW05-04	J7J230300-4	J9M5D1AA	9J9M5D10	7296658
		MW05-04	J7J230300-4	J9M5D1AC	9J9M5D10	7296665
		MW05-05	J7J230300-5	J9M5E1AA	9J9M5E10	7296658
		MW05-05	J7J230300-5	J9M5E1AC	9J9M5E10	7296665
		MWA	J7J230300-6	J9M5F1AA	9J9M5F10	7296658
		MWA	J7J230300-6	J9M5F1AC	9J9M5F10	7296665
		MWB	J7J230300-7	J9M5G1AA	9J9M5G10	7296658
		MWB	J7J230300-7	J9M5G1AC	9J9M5G10	7296665
		NW-10	J7J230300-11	J9M5M1AA	9J9M5M10	7296658
		NW-10	J7J230300-11	J9M5M1AC	9J9M5M10	7296665
		NW-5	J7J230300-9	J9M5K1AA	9J9M5K10	7296658
		NW-5	J7J230300-9	J9M5K1AC	9J9M5K10	7296665
		NW-7	J7J230300-17	J9M501AA	9J9M5010	7296661
		NW-7	J7J230300-17	J9M501AC	9J9M5010	7296668
		NW-9	J7J230300-8	J9M5H1AA	9J9M5H10	7296658
		NW-9	J7J230300-8	J9M5H1AC	9J9M5H10	7296665
		TORGESEN	J7J230300-16	J9M5X1AA	9J9M5X10	7296661
		TORGESEN	J7J230300-16	J9M5X3AC	9J9M5X30	7319266

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z....). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate. TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Date: 26-Nov-07

Sample Results Summary

TAL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 37479

SDG No: 36429

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7296658 RICHRC5014									
	A-2 J9M5Q1AA	ALPHA	2.00E+00 +- 1.27E+00	J	pCi/L	100%	1.48E+00	3.00E+00	
	A-2A J9M5T1AA	ALPHA	5.58E-01 +- 7.57E-01	U	pCi/L	100%	1.41E+00	3.00E+00	
	A-4 J9M5L1AA	ALPHA	1.29E+00 +- 1.76E+00	U	pCi/L	100%	3.27E+00	3.00E+00	
	A-7 J9M5P1AA	ALPHA	1.71E+01 +- 8.51E+00		pCi/L	100%	8.33E+00	3.00E+00	
	MW05-01 J9M461AA	ALPHA	1.07E+00 +- 9.42E-01	U	pCi/L	100%	1.44E+00	3.00E+00	
	MW05-01 DUP J9M461AD	ALPHA	7.58E-01 +- 8.37E-01	U	pCi/L	100%	1.43E+00	3.00E+00	0.5
	MW05-02 J9M491AA	ALPHA	2.60E-01 +- 7.57E-01	U	pCi/L	100%	1.77E+00	3.00E+00	
	MW05-03 J9M5C1AA	ALPHA	1.76E+00 +- 1.41E+00	U	pCi/L	100%	2.00E+00	3.00E+00	
	MW05-04 J9M5D1AA	ALPHA	1.04E+00 +- 9.70E-01	U	pCi/L	100%	1.47E+00	3.00E+00	
	MW05-05 J9M5E1AA	ALPHA	5.39E-01 +- 3.26E+00	U	pCi/L	100%	8.24E+00	3.00E+00	
	MWA J9M5F1AA	ALPHA	-6.28E-01 +- 2.55E+00	U	pCi/L	100%	6.27E+00	3.00E+00	
	MWB J9M5G1AA	ALPHA	3.51E+01 +- 1.45E+01		pCi/L	100%	1.13E+01	3.00E+00	
	NW-10 J9M5M1AA	ALPHA	1.11E+00 +- 1.41E+00	U	pCi/L	100%	2.58E+00	3.00E+00	
	NW-5 J9M5K1AA	ALPHA	1.90E+00 +- 2.14E+00	U	pCi/L	100%	3.72E+00	3.00E+00	
	NW-9 J9M5H1AA	ALPHA	2.64E+01 +- 8.50E+00		pCi/L	100%	4.67E+00	3.00E+00	
7296661 RICHRC5014									
	A-1 J9M581AA	ALPHA	8.04E-01 +- 9.84E-01	U	pCi/L	100%	1.82E+00	3.00E+00	
	A-10 J9M5W1AA	ALPHA	4.22E+00 +- 2.30E+00		pCi/L	100%	2.16E+00	3.00E+00	
	A-10 DUP J9M5W1AD	ALPHA	1.35E+00 +- 1.51E+00	U	pCi/L	100%	2.70E+00	3.00E+00	2.1
	A-5 J9M6A1AA	ALPHA	4.02E+00 +- 2.07E+00		pCi/L	100%	2.12E+00	3.00E+00	

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

TAL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 26-Nov-07

Report No. : 37479

SDG No: 36429

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7296661 RICHRC5014									
	A-6								
	J9M6C1AA	ALPHA	1.17E+01 +- 5.75E+00		pCi/L	100%	6.73E+00	3.00E+00	
	A-9A								
	J9M6E1AA	ALPHA	2.07E+00 +- 2.71E+00	U	pCi/L	100%	5.02E+00	3.00E+00	
	ARRMAZ								
	J9M6L1AA	ALPHA	1.32E+00 +- 1.36E+00	U	pCi/L	100%	2.19E+00	3.00E+00	
	DUPLICATE								
	J9M541AA	ALPHA	5.98E+00 +- 2.78E+00		pCi/L	100%	2.73E+00	3.00E+00	
	EQ BLANK								
	J9M6V1AA	ALPHA	1.03E-02 +- 3.04E-01	U	pCi/L	100%	9.37E-01	3.00E+00	
	JRS-10								
	J9M6R1AA	ALPHA	5.31E+00 +- 3.49E+00		pCi/L	100%	4.80E+00	3.00E+00	
	JRS-11								
	J9M6T1AA	ALPHA	4.56E+00 +- 1.89E+00		pCi/L	100%	1.29E+00	3.00E+00	
	JRS-8								
	J9M6P1AA	ALPHA	3.06E+00 +- 2.04E+00		pCi/L	100%	2.61E+00	3.00E+00	
	LOWRY								
	J9M6M1AA	ALPHA	2.56E+00 +- 1.11E+00	J	pCi/L	100%	9.66E-01	3.00E+00	
	NW-7								
	J9M501AA	ALPHA	5.13E+00 +- 2.46E+00		pCi/L	100%	1.99E+00	3.00E+00	
	TORGESEN								
	J9M5X1AA	ALPHA	2.55E+00 +- 1.59E+00	J	pCi/L	100%	2.13E+00	3.00E+00	
7296665 RICHRC5014									
	A-2								
	J9M5Q1AC	BETA	2.13E+00 +- 2.09E+00	U	pCi/L	100%	3.99E+00	4.00E+00	
	A-2A								
	J9M5T1AC	BETA	4.55E+00 +- 2.30E+00		pCi/L	100%	4.03E+00	4.00E+00	
	A-4								
	J9M5L1AC	BETA	1.49E+01 +- 7.33E+00		pCi/L	100%	1.23E+01	4.00E+00	
	A-7								
	J9M5P1AC	BETA	9.26E+01 +- 1.76E+01		pCi/L	100%	1.80E+01	4.00E+00	
	MW05-01								
	J9M461AC	BETA	7.44E+00 +- 3.24E+00		pCi/L	100%	5.66E+00	4.00E+00	
	MW05-02								
	J9M491AC	BETA	4.96E+00 +- 2.36E+00		pCi/L	100%	4.07E+00	4.00E+00	
	MW05-02 DUP								
	J9M491AD	BETA	5.78E+00 +- 2.53E+00		pCi/L	100%	4.35E+00	4.00E+00	0.5
	MW05-03								
	J9M5C1AC	BETA	4.39E+00 +- 2.93E+00	U	pCi/L	100%	5.27E+00	4.00E+00	

TAL Richland

rptSTLRchSaSummary2 V5.1.4
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 26-Nov-07

Sample Results Summary

TAL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 37479

SDG No: 36429

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7296665 RICHRC5014									
	MW05-04								
	J9M5D1AC	BETA	5.14E+00 +- 2.45E+00		pCi/L	100%	4.28E+00	4.00E+00	
	MW05-05								
	J9M5E1AC	BETA	6.17E+00 +- 3.18E+00		pCi/L	100%	5.63E+00	4.00E+00	
	MWA								
	J9M5F1AC	BETA	2.40E+01 +- 7.47E+00		pCi/L	100%	1.15E+01	4.00E+00	
	MWB								
	J9M5G1AC	BETA	4.17E+01 +- 1.29E+01		pCi/L	100%	1.91E+01	4.00E+00	
	NW-10								
	J9M5M1AC	BETA	3.85E+00 +- 2.70E+00	U	pCi/L	100%	5.01E+00	4.00E+00	
	NW-5								
	J9M5K1AC	BETA	2.16E+01 +- 5.92E+00		pCi/L	100%	8.58E+00	4.00E+00	
	NW-9								
	J9M5H1AC	BETA	1.94E+01 +- 5.07E+00		pCi/L	100%	6.60E+00	4.00E+00	
7296668 RICHRC5014									
	A-1								
	J9M581AC	BETA	3.44E+00 +- 2.11E+00	U	pCi/L	100%	4.00E+00	4.00E+00	
	A-10								
	J9M5W1AC	BETA	9.80E+00 +- 3.45E+00		pCi/L	100%	5.53E+00	4.00E+00	
	A-5								
	J9M6A1AC	BETA	1.79E+01 +- 4.85E+00		pCi/L	100%	6.94E+00	4.00E+00	
	A-6								
	J9M6C1AC	BETA	3.08E+01 +- 9.35E+00		pCi/L	100%	1.37E+01	4.00E+00	
	A-9A								
	J9M6E1AC	BETA	1.56E+01 +- 7.33E+00		pCi/L	100%	1.26E+01	4.00E+00	
	ARRMAZ								
	J9M6L1AC	BETA	9.87E+00 +- 4.32E+00		pCi/L	100%	7.36E+00	4.00E+00	
	DUPLICATE								
	J9M541AC	BETA	7.82E+00 +- 2.67E+00		pCi/L	100%	4.24E+00	4.00E+00	
	EQ BLANK								
	J9M6V1AC	BETA	8.08E-01 +- 1.12E+00	U	pCi/L	100%	2.35E+00	4.00E+00	
	JRS-10								
	J9M6R1AC	BETA	1.65E+01 +- 6.04E+00		pCi/L	100%	9.85E+00	4.00E+00	
	JRS-11								
	J9M6T1AC	BETA	1.56E+00 +- 2.22E+00	U	pCi/L	100%	4.66E+00	4.00E+00	
	J9M6T2AC	BETA	2.71E+00 +- 1.75E+00	U	pCi/L	100%	3.21E+00	4.00E+00	
	JRS-8								
	J9M6P1AC	BETA	8.52E+00 +- 3.85E+00		pCi/L	100%	6.56E+00	4.00E+00	
	LOWRY								

TAL Richland

rptSTLRchSaSummary2 V5.1.4
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 26-Nov-07

Sample Results Summary

TAL Richland STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 37479

SDG No: 36429

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
7296668 RICHRC5014									
	LOWRY								
	J9M6M1AC	BETA	7.37E+00 +- 2.96E+00		pCi/L	100%	5.06E+00	4.00E+00	
	NW-7								
	J9M501AC	BETA	7.01E+00 +- 2.49E+00		pCi/L	100%	3.97E+00	4.00E+00	
7319266 RICHRC5014									
	TORGESEN								
	J9M5X3AC	BETA	6.21E+00 +- 2.35E+00		pCi/L	100%	3.75E+00	4.00E+00	
	TORGESEN DUP								
	J9M5X3AD	BETA	5.04E+00 +- 2.23E+00		pCi/L	100%	3.82E+00		0.7

No. of Results: 61

TAL Richland RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchSaSum
mary2 V5.1.4
A2002

Date: 26-Nov-07

QC Results Summary
TAL Richland STLR
Ordered by Method, Batch No, QC Type,.

Report No. : 37479

SDG No.: 36429

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
RICHRC5014								
7296658 BLANK QC, J9NC41AA	ALPHA	-9.53E-02 +- 1.42E-01	U	pCi/L	100%			4.11E-01
7296658 LCS, J9NC41AC	ALPHA	1.90E+01 +- 4.62E+00		pCi/L	100%	84%	-0.2	3.31E-01
RICHRC5014								
7296661 BLANK QC, J9NDD1AA	ALPHA	-2.56E-02 +- 1.64E-01	U	pCi/L	100%			4.06E-01
7296661 LCS, J9NDD1AC	ALPHA	1.97E+01 +- 4.77E+00		pCi/L	100%	87%	-0.1	3.59E-01
RICHRC5014								
7296665 BLANK QC, J9NDJ1AA	BETA	9.57E-01 +- 1.09E+00	U	pCi/L	100%			2.11E+00
7296665 LCS, J9NDJ1AC	BETA	1.88E+01 +- 3.62E+00		pCi/L	100%	83%	-0.2	1.49E+00
RICHRC5014								
7296668 BLANK QC, J9NDN1AA	BETA	9.10E-01 +- 8.80E-01	U	pCi/L	100%			1.68E+00
7296668 LCS, J9NDN1AC	BETA	2.24E+01 +- 3.28E+00		pCi/L	100%	100%	0.0	1.81E+00
RICHRC5014								
7319266 BLANK QC, KCA0N1AA	BETA	4.78E-01 +- 1.09E+00	U	pCi/L	100%			2.35E+00
7319266 LCS, KCA0N1AC	BETA	2.26E+01 +- 3.75E+00		pCi/L	100%	101%	0.0	2.51E+00

No. of Results: 10

TAL Richland

rptSTLRchQcSummary V5.1.4 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 12:00:00 PM
Lot-Sample No.:	J7J230300-19	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-1	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M581AA		Report DB ID: 9J9M5810						
ALPHA	**8.04E-01**	U	9.7E-01	9.8E-01	1.82E+00	pCi/L	100%	*0.44*	11/14/07 03:07 p		0.0833	GPC10D
						7.01E-01	3.00E+00	*(1.6)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M581AC		Report DB ID: 9J9M5810						
BETA	**3.44E+00**	U	2.1E+00	2.1E+00	4.00E+00	pCi/L	100%	*0.86*	11/14/07 11:39 a		0.143	GPC28D
						1.90E+00	4.00E+00	*(3.3)*			L	

No. of Results: 2 Comments:

AL Richland
tSTLRchSample
5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name: TA Richland
Lot-Sample No.: J7J230300-15
Client Sample ID: A-10

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/16/2007 6:25:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M5W1AA		Report DB ID: 9J9M5W10						
ALPHA	**4.22E+00**		2.1E+00	2.3E+00	2.16E+00	pCi/L	100%	*(2.)*	11/14/07 01:11 p		0.0833	GPC10F
						7.75E-01	3.00E+00	*(3.7)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M5W1AC		Report DB ID: 9J9M5W10						
BETA	**9.80E+00**		3.2E+00	3.4E+00	5.53E+00	pCi/L	100%	*(1.8)*	11/14/07 12:30 p		0.0703	GPC31A
						2.66E+00	4.00E+00	*(5.7)*			L	

No. of Results: 2 Comments:

TAL Richland
StSTLRchSample
5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMY 005493

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 1:15:00 PM
Lot-Sample No.:	J7J230300-13	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-2	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5Q1AA			Report DB ID: 9J9M5Q10					
ALPHA	**2.00E+00**	J	1.2E+00	1.3E+00	1.48E+00	pCi/L	100%	*(1.4)*	11/17/07 10:33 a		0.1286	GPC10D
						5.47E-01	3.00E+00	*(3.2)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5Q1AC			Report DB ID: 9J9M5Q10					
BETA	**2.13E+00**	U	2.1E+00	2.1E+00	3.99E+00	pCi/L	100%	*0.53*	11/15/07 02:07 p		0.099	GPC32B
						1.92E+00	4.00E+00	*(2.)*			L	

No. of Results: 2 Comments:

TAL Richland
RSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUMA 003494

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 12:50:00 PM
Lot-Sample No.:	J7J230300-14	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-2A	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5T1AA		Report DB ID: 9J9M5T10						
ALPHA	**5.58E-01**	U	7.5E-01	7.6E-01	1.41E+00	pCi/L	100%	*0.4*	11/17/07 10:33 a		0.1192	GPC10I
						5.07E-01	3.00E+00	*(1.5)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5T1AC		Report DB ID: 9J9M5T10						
BETA	**4.55E+00**		2.2E+00	2.3E+00	4.03E+00	pCi/L	100%	*(1.1)*	11/15/07 02:07 p		0.0954	GPC32(
						1.94E+00	4.00E+00	*(4.)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 3:24:00 PM
Lot-Sample No.:	J7J230300-10	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-4	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5L1AA			Report DB ID: 9J9M5L10					
ALPHA	**1.29E+00**	U	1.7E+00	1.8E+00	3.27E+00	pCi/L	100%	*0.39*	11/17/07 01:37 p		0.0394	GPC10[
						1.31E+00	3.00E+00	*(1.5)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5L1AC			Report DB ID: 9J9M5L10					
BETA	**1.49E+01**		6.8E+00	7.3E+00	1.23E+01	pCi/L	100%	*(1.2)*	11/15/07 02:07 p		0.0318	GPC31I
						5.93E+00	4.00E+00	*(4.1)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name: TA Richland
Lot-Sample No.: J7J230300-20
Client Sample ID: A-5

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/17/2007 10:30:00 AM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6A1AA			Report DB ID: 9J9M6A10					
ALPHA	**4.02E+00**		1.9E+00	2.1E+00	2.12E+00	pCi/L	100%	*(1.9)*	11/14/07 06:00 p		0.0589	GPC10B
						8.32E-01	3.00E+00	*(3.9)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6A1AC			Report DB ID: 9J9M6A10					
BETA	**1.79E+01**		4.3E+00	4.8E+00	6.94E+00	pCi/L	100%	*(2.6)*	11/14/07 12:30 p		0.0547	GPC32B
						3.34E+00	4.00E+00	*(7.4)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 10:50:00 AM
Lot-Sample No.:	J7J230300-21	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-6	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6C1AA			Report DB ID: 9J9M6C10					
ALPHA	**1.17E+01**		5.1E+00	5.7E+00	6.73E+00	pCi/L	100%	*(1.7)*	11/14/07 06:00 p		0.0286	GPC10C
						2.86E+00	3.00E+00	*(4.1)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6C1AC			Report DB ID: 9J9M6C10					
BETA	**3.08E+01**		8.3E+00	9.3E+00	1.37E+01	pCi/L	100%	*(2.2)*	11/14/07 12:30 p		0.0268	GPC32C
						6.59E+00	4.00E+00	*(6.6)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 2:45:00 PM
Lot-Sample No.:	J7J230300-12	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-7	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5P1AA		Report DB ID: 9J9M5P10						
ALPHA	**1.71E+01**		7.5E+00	8.5E+00	8.33E+00	pCi/L	100%	*(2.1)*	11/17/07 01:37 p		0.0161	GPC10F
						3.26E+00	3.00E+00	*(4.)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5P1AC		Report DB ID: 9J9M5P10						
BETA	**9.26E+01**		1.3E+01	1.8E+01	1.80E+01	pCi/L	100%	*(5.1)*	11/15/07 02:07 p		0.0225	GPC31D
						8.68E+00	4.00E+00	*(10.5)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 9:28:00 AM
Lot-Sample No.:	J7J230300-22	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-9A	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6E1AA			Report DB ID: 9J9M6E10					
ALPHA	**2.07E+00**	U	2.7E+00	2.7E+00	5.02E+00	pCi/L	100%	*0.41*	11/14/07 06:00 p		0.0323	GPC10D
						2.07E+00	3.00E+00	*(1.5)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6E1AC			Report DB ID: 9J9M6E10					
BETA	**1.56E+01**		6.9E+00	7.3E+00	1.26E+01	pCi/L	100%	*(1.2)*	11/14/07 12:30 p		0.0302	GPC32D
						6.06E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 8:30:00 AM
Lot-Sample No.:	J7J230300-23	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	ARRMAZ	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order:	J9M6L1AA		Report DB ID:	9J9M6L10				
ALPHA	**1.32E+00**	U	1.3E+00	1.4E+00	2.19E+00	pCi/L	100%	*0.6*	11/14/07 03:07 p		0.0848	GPC10I
						7.86E-01	3.00E+00	*(1.9)*			L	
Batch: 7296668	RICHRC5014			Work Order:	J9M6L1AC		Report DB ID:	9J9M6L10				
BETA	**9.87E+00**		4.1E+00	4.3E+00	7.36E+00	pCi/L	100%	*(1.3)*	11/14/07 02:16 p		0.0499	GPC27/
						3.54E+00	4.00E+00	*(4.6)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

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FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 2:40:00 PM
Lot-Sample No.:	J7J230300-18	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	DUPLICATE	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M541AA		Report DB ID: 9J9M5410						
ALPHA	**5.98E+00**		2.4E+00	2.8E+00	2.73E+00	pCi/L	100%	*(2.2)*	11/14/07 03:07 p		0.0892	GPC10(
						1.09E+00	3.00E+00	*(4.3)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M541AC		Report DB ID: 9J9M5410						
BETA	**7.82E+00**		2.5E+00	2.7E+00	4.24E+00	pCi/L	100%	*(1.8)*	11/14/07 12:30 p		0.09	GPC32.
						2.04E+00	4.00E+00	*(5.9)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name: TA Richland
Lot-Sample No.: J7J230300-28
Client Sample ID: EQ BLANK

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/18/2007 10:25:00 AM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6V1AA			Report DB ID: 9J9M6V10					
ALPHA	**1.03E-02**	U	3.0E-01	3.0E-01	9.37E-01	pCi/L	100%	*0.01*	11/14/07 11:42 a		0.2003	GPC10D
						3.30E-01	3.00E+00	*0.07*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6V1AC			Report DB ID: 9J9M6V10					
BETA	**8.08E-01**	U	1.1E+00	1.1E+00	2.35E+00	pCi/L	100%	*0.34*	11/14/07 01:25 p		0.2002	GPC26C
						1.11E+00	4.00E+00	*(1.4)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/18/2007 9:05:00 AM
Lot-Sample No.:	J7J230300-26	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	JRS-10	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6R1AA		Report DB ID: 9J9M6R10						
ALPHA	**5.31E+00**		3.3E+00	3.5E+00	4.80E+00	pCi/L	100%	*(1.1)*	11/15/07 07:23 a		0.0314	GPC10I
						1.97E+00	3.00E+00	*(3.)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6R1AC		Report DB ID: 9J9M6R10						
BETA	**1.65E+01**		5.7E+00	6.0E+00	9.85E+00	pCi/L	100%	*(1.7)*	11/14/07 02:16 p		0.0382	GPC27(
						4.74E+00	4.00E+00	*(5.5)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name: TA Richland
Lot-Sample No.: J7J230300-27
Client Sample ID: JRS-11

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/18/2007 8:40:00 AM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6T1AA			Report DB ID: 9J9M6T10					
ALPHA	**4.56E+00**		1.6E+00	1.9E+00	1.29E+00	pCi/L	100%	*(3.5)*	11/15/07 03:27 p		0.1388	GPC10
						4.77E-01	3.00E+00	*(4.8)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6T1AC			Report DB ID: 9J9M6T10					
BETA	**1.56E+00**	U	2.2E+00	2.2E+00	4.66E+00	pCi/L	100%	*0.34*	11/14/07 01:25 p		0.1235	GPC26
						2.22E+00	4.00E+00	*(1.4)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6T2AC			Report DB ID: 9J9M6T20					
BETA	**2.71E+00**	U	1.7E+00	1.7E+00	3.21E+00	pCi/L	100%	*0.85*	11/15/07 05:38 p		0.1235	GPC32
						1.55E+00	4.00E+00	*(3.1)*			L	

No. of Results: 3 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/18/2007 9:45:00 AM
Lot-Sample No.:	J7J230300-25	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	JRS-8	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order:	J9M6P1AA		Report DB ID:	9J9M6P10				
ALPHA	**3.06E+00**		1.9E+00	2.0E+00	2.61E+00	pCi/L	100%	*(1.2)*	11/14/07 06:00 p		0.0458	GPC10I
						1.02E+00	3.00E+00	*(3.)*			L	
Batch: 7296668	RICHRC5014			Work Order:	J9M6P1AC		Report DB ID:	9J9M6P10				
BETA	**8.52E+00**		3.7E+00	3.9E+00	6.56E+00	pCi/L	100%	*(1.3)*	11/14/07 02:16 p		0.0582	GPC27I
						3.16E+00	4.00E+00	*(4.4)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name: TA Richland
Lot-Sample No.: J7J230300-24
Client Sample ID: LOWRY

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/17/2007 4:00:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M6M1AA			Report DB ID: 9J9M6M10					
ALPHA	**2.56E+00**	J	9.4E-01	1.1E+00	9.66E-01	pCi/L	100%	*(2.7)*	11/15/07 07:23 a		0.1192	GPC10/
						3.88E-01	3.00E+00	*(4.6)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M6M1AC			Report DB ID: 9J9M6M10					
BETA	**7.37E+00**		2.8E+00	3.0E+00	5.06E+00	pCi/L	100%	*(1.5)*	11/14/07 01:25 p		0.1165	GPC26/
						2.41E+00	4.00E+00	*(5.)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOW 003507

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 11:20:00 AM
Lot-Sample No.:	J7J230300-1	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-01	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M461AA		Report DB ID: 9J9M4610						
ALPHA	**1.07E+00**	U	9.1E-01	9.4E-01	1.44E+00	pCi/L	100%	*0.74*	11/15/07 07:25 p		0.1318	GPC10
						5.38E-01	3.00E+00	*(2.3)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M461AC		Report DB ID: 9J9M4610						
BETA	**7.44E+00**		3.1E+00	3.2E+00	5.66E+00	pCi/L	100%	*(1.3)*	11/14/07 06:17 p		0.1024	GPC28
						2.68E+00	4.00E+00	*(4.6)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name: TA Richland
Lot-Sample No.: J7J230300-2
Client Sample ID: MW05-02

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/16/2007 12:10:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M491AA		Report DB ID: 9J9M4910						
ALPHA	**2.60E-01**	U	7.5E-01	7.6E-01	1.77E+00	pCi/L	100%	*0.15*	11/17/07 08:25 a		0.1316	GPC10/
						6.88E-01	3.00E+00	*0.69*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M491AC		Report DB ID: 9J9M4910						
BETA	**4.96E+00**		2.2E+00	2.4E+00	4.07E+00	pCi/L	100%	*(1.2)*	11/15/07 07:02 a		0.0936	GPC32[
						1.96E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005309

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 2:04:00 PM
Lot-Sample No.:	J7J230300-3	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-03	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order:	J9M5C1AA		Report DB ID:	9J9M5C10				
ALPHA	**1.76E+00**	U	1.4E+00	1.4E+00	2.00E+00	pCi/L	100%	*0.88*	11/17/07 08:25 a		0.1003	GPC10D
						7.43E-01	3.00E+00	*(2.5)*			L	
Batch: 7296665	RICHRC5014			Work Order:	J9M5C1AC		Report DB ID:	9J9M5C10				
BETA	**4.39E+00**	U	2.8E+00	2.9E+00	5.27E+00	pCi/L	100%	*0.83*	11/15/07 10:27 a		0.0721	GPC31E
						2.53E+00	4.00E+00	*(3.)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 10:36:00 AM
Lot-Sample No.:	J7J230300-4	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-04	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5D1AA		Report DB ID: 9J9M5D10						
ALPHA	**1.04E+00**	U	9.4E-01	9.7E-01	1.47E+00	pCi/L	100%	*0.71*	11/17/07 08:25 a		0.1113	GPC10I
						5.28E-01	3.00E+00	*(2.1)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5D1AC		Report DB ID: 9J9M5D10						
BETA	**5.14E+00**		2.4E+00	2.5E+00	4.28E+00	pCi/L	100%	*(1.2)*	11/15/07 10:27 a		0.0903	GPC31(
						2.06E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 10:00:00 AM
Lot-Sample No.:	J7J230300-5	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-05	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5E1AA			Report DB ID: 9J9M5E10					
ALPHA	**5.39E-01**	U	3.3E+00	3.3E+00	8.24E+00	pCi/L	100%	*0.07*	11/17/07 10:33 a		0.0282	GPC10.
						3.21E+00	3.00E+00	*0.33*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5E1AC			Report DB ID: 9J9M5E10					
BETA	**6.17E+00**		3.1E+00	3.2E+00	5.63E+00	pCi/L	100%	*(1.1)*	11/15/07 10:27 a		0.0704	GPC31I
						2.71E+00	4.00E+00	*(3.9)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name: TA Richland
Lot-Sample No.: J7J230300-6
Client Sample ID: MWA

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/16/2007 5:45:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5F1AA			Report DB ID: 9J9M5F10					
ALPHA	**-6.28E-01**	U	2.5E+00	2.5E+00	6.27E+00	pCi/L	100%	*-0.1*	11/16/07 06:16 p		0.0282	GPC10/
						2.67E+00	3.00E+00	*-0.49*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5F1AC			Report DB ID: 9J9M5F10					
BETA	**2.40E+01**		6.9E+00	7.5E+00	1.15E+01	pCi/L	100%	*(2.1)*	11/15/07 10:27 a		0.0343	GPC32I
						5.56E+00	4.00E+00	*(6.4)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 5:00:00 PM
Lot-Sample No.:	J7J230300-7	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MWB	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5G1AA		Report DB ID: 9J9M5G10						
ALPHA	**3.51E+01**		1.2E+01	1.4E+01	1.13E+01	pCi/L	100%	*(3.1)*	11/16/07 06:16 p		0.0121	GPC10
						4.45E+00	3.00E+00	*(4.8)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5G1AC		Report DB ID: 9J9M5G10						
BETA	**4.17E+01**		1.2E+01	1.3E+01	1.91E+01	pCi/L	100%	*(2.2)*	11/15/07 10:27 a		0.0202	GPC32
						9.21E+00	4.00E+00	*(6.5)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name: TA Richland
Lot-Sample No.: J7J230300-11
Client Sample ID: NW-10

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/16/2007 3:47:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5M1AA		Report DB ID: 9J9M5M10						
ALPHA	**1.11E+00**	U	1.4E+00	1.4E+00	2.58E+00	pCi/L	100%	*0.43*	11/17/07 10:33 a		0.0849	GPC10[
						9.50E-01	3.00E+00	*(1.6)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5M1AC		Report DB ID: 9J9M5M10						
BETA	**3.85E+00**	U	2.7E+00	2.7E+00	5.01E+00	pCi/L	100%	*0.77*	11/15/07 02:07 p		0.0779	GPC31(
						2.41E+00	4.00E+00	*(2.8)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 4:05:00 PM
Lot-Sample No.:	J7J230300-9	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	NW-5	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M5K1AA		Report DB ID: 9J9M5K10						
ALPHA	**1.90E+00**	U	2.1E+00	2.1E+00	3.72E+00	pCi/L	100%	*0.51*	11/17/07 01:37 p		0.0379	GPC10I
						1.48E+00	3.00E+00	*(1.8)*			L	
Batch: 7296665	RICHRC5014			Work Order: J9M5K1AC		Report DB ID: 9J9M5K10						
BETA	**2.16E+01**		5.2E+00	5.9E+00	8.58E+00	pCi/L	100%	*(2.5)*	11/15/07 02:07 p		0.0481	GPC31/
						4.14E+00	4.00E+00	*(7.3)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 26-Nov-07

SAMPLE RESULTS

Lab Name: TA Richland
Lot-Sample No.: J7J230300-17
Client Sample ID: NW-7

SDG: 36429
Report No. : 37479
COC No. :

Collection Date: 10/17/2007 2:40:00 PM
Received Date: 10/23/2007 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M501AA		Report DB ID: 9J9M5010						
ALPHA	**5.13E+00**		2.2E+00	2.5E+00	1.99E+00	pCi/L	100%	*(2.6)*	11/14/07 03:07 p		0.0928	GPC10I
						7.14E-01	3.00E+00	*(4.2)*			L	
Batch: 7296668	RICHRC5014			Work Order: J9M501AC		Report DB ID: 9J9M5010						
BETA	**7.01E+00**		2.3E+00	2.5E+00	3.97E+00	pCi/L	100%	*(1.8)*	11/14/07 12:30 p		0.0919	GPC31I
						1.91E+00	4.00E+00	*(5.6)*			L	

No. of Results: 2 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 5:18:00 PM
Lot-Sample No.:	J7J230300-8	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	NW-9	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order:	J9M5H1AA		Report DB ID:	9J9M5H10				
ALPHA	**2.64E+01**		5.9E+00	8.5E+00	4.67E+00	pCi/L	100%	*(5.7)*	11/17/07 01:37 p		0.0353	GPC10/
						1.94E+00	3.00E+00	*(6.2)*			L	
Batch: 7296665	RICHRC5014			Work Order:	J9M5H1AC		Report DB ID:	9J9M5H10				
BETA	**1.94E+01**		4.1E+00	5.1E+00	6.60E+00	pCi/L	100%	*(2.9)*	11/15/07 10:27 a		0.0582	GPC32[
						3.18E+00	4.00E+00	*(7.7)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 1:15:00 PM
Lot-Sample No.:	J7J230300-16	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	TORGESEN	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order:	J9M5X1AA		Report DB ID:	9J9M5X10				
ALPHA	**2.55E+00**	J	1.5E+00	1.6E+00	2.13E+00	pCi/L	100%	*(1.2)*	11/14/07 06:00 p		0.0685	GPC10/
						8.84E-01	3.00E+00	*(3.2)*			L	
Batch: 7319266	RICHRC5014			Work Order:	J9M5X3AC		Report DB ID:	9J9M5X30				
BETA	**6.21E+00**		2.2E+00	2.3E+00	3.75E+00	pCi/L	100%	*(1.7)*	11/21/07 11:50 a		0.1002	GPC27I
						1.80E+00	4.00E+00	*(5.3)*			L	

No. of Results: 2 Comments:

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 26-Nov-07

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 1:15:00 PM
Lot-Sample No.:	J7J230300-16	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	TORGESEN	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

TAL Richland
rptSTLRchSample
V5.1.4 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 26-Nov-07

DUPLICATE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 6:25:00 PM
Lot-Sample No.:	J7J230300-15	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	A-10 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296661	RICHRC5014			Work Order: J9M5W1AD		Report DB ID: J9M5W1DR			Orig Sa DB ID: 9J9M5W10			
ALPHA	1.35E+00	U	1.5E+00	1.5E+00	2.70E+00	pCi/L	100%	0.5	11/14/07 03:07 p		0.0833	GPC10A
	4.22E+00		RER2 2.1			3.00E+00		(1.8)			L	

No. of Results: 1 Comments:

TAL Richland
rptSTLRchDupV5.1
.4 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 26-Nov-07

DUPLICATE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 11:20:00 AM
Lot-Sample No.:	J7J230300-1	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-01 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9M461AD		Report DB ID: J9M461DR			Orig Sa DB ID: 9J9M4610			
ALPHA	7.58E-01	U	8.2E-01	8.4E-01	1.43E+00	pCi/L	100%	0.53	11/17/07 08:25 a		0.1313	GPC10B
	1.07E+00	U	RER2 0.5			3.00E+00		(1.8)			L	

No. of Results: 1 Comments:

TAL Richland
rptSTLRchDupV5.1
4 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 26-Nov-07

DUPLICATE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/16/2007 12:10:00 PM
Lot-Sample No.:	J7J230300-2	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	MW05-02 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296665	RICHRC5014			Work Order: J9M491AD		Report DB ID: J9M491DR			Orig Sa DB ID: 9J9M4910			
BETA	5.78E+00		2.4E+00	2.5E+00	4.35E+00	pCi/L	100%	(1.3)	11/15/07 10:27 a		0.0935	GPC31A
	4.96E+00		RER2 0.5			4.00E+00		(4.6)			L	

No. of Results: 1 Comments:

TAL Richland RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

.4 A2002

FORM II

Date: 26-Nov-07

DUPLICATE RESULTS

Lab Name:	TA Richland	SDG:	36429	Collection Date:	10/17/2007 1:15:00 PM
Lot-Sample No.:	J7J230300-16	Report No. :	37479	Received Date:	10/23/2007 10:00:00 AM
Client Sample ID:	TORGESEN DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7319266	RICHRC5014			Work Order: J9M5X3AD		Report DB ID: J9M5X3DR			Orig Sa DB ID: 9J9M5X30			
BETA	5.04E+00		2.1E+00	2.2E+00	3.82E+00	pCi/L	100%	(1.3)	11/21/07 11:50 a		0.1031	GPC27C
	6.21E+00		RER2 0.7					(4.5)			L	

No. of Results: 1 Comments:

TAL Richland RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

4 A2002

FORM II

BLANK RESULTS

Date: 26-Nov-07

Lab Name: TA Richland

Matrix: WATER

SDG: 36429

Report No. : 37479

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order: J9NC41AA		Report DB ID: J9NC41AB						
ALPHA	-9.53E-02	U	1.4E-01	1.4E-01	4.11E-01	pCi/L	100%	-0.23	11/18/07 10:47 a		0.2001	GPC10B
					1.70E-01	3.00E+00		-(1.3)			L	
Batch: 7296661	RICHRC5014			Work Order: J9NDD1AA		Report DB ID: J9NDD1AB						
ALPHA	-2.56E-02	U	1.6E-01	1.6E-01	4.06E-01	pCi/L	100%	-0.06	11/15/07 07:23 a		0.2002	GPC10D
					1.69E-01	3.00E+00		-0.31			L	
Batch: 7296665	RICHRC5014			Work Order: J9NDJ1AA		Report DB ID: J9NDJ1AB						
BETA	9.57E-01	U	1.1E+00	1.1E+00	2.11E+00	pCi/L	100%	0.45	11/15/07 02:07 p		0.2003	GPC32D
					1.02E+00	4.00E+00		(1.7)			L	
Batch: 7296668	RICHRC5014			Work Order: J9NDN1AA		Report DB ID: J9NDN1AB						
BETA	9.10E-01	U	8.7E-01	8.8E-01	1.68E+00	pCi/L	100%	0.54	11/14/07 02:16 p		0.2005	GPC27D
					8.07E-01	4.00E+00		(2.1)			L	
Batch: 7319266	RICHRC5014			Work Order: KCA0N1AA		Report DB ID: KCA0N1AB						
BETA	4.78E-01	U	1.1E+00	1.1E+00	2.35E+00	pCi/L	100%	0.2	11/20/07 07:35 a		0.203	GPC26C
					1.11E+00	4.00E+00		0.88			L	

No. of Results: 5 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 26-Nov-07

Lab Name: TA Richland

Matrix: WATER

SDG: 36429

Report No. : 37479

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 7296658	RICHRC5014			Work Order:	J9NC41AC		Report DB ID:	J9NC41CS					
ALPHA	1.90E+01		1.4E+00	4.6E+00	3.31E-01	pCi/L	100%	2.26E+01	3.48E-01	84%	11/18/07 10:47 a	0.2002	GPC10D
							Rec Limits:	70	130	-0.2		L	
Batch: 7296661	RICHRC5014			Work Order:	J9NDD1AC		Report DB ID:	J9NDD1CS					
ALPHA	1.97E+01		1.4E+00	4.8E+00	3.59E-01	pCi/L	100%	2.27E+01	3.49E-01	87%	11/15/07 07:23 a	0.2001	GPC10F
							Rec Limits:	70	130	-0.1		L	
Batch: 7296665	RICHRC5014			Work Order:	J9NDJ1AC		Report DB ID:	J9NDJ1CS					
BETA	1.88E+01		1.5E+00	3.6E+00	1.49E+00	pCi/L	100%	2.26E+01	2.61E-01	83%	11/15/07 05:38 p	0.2004	GPC31B
							Rec Limits:	70	130	-0.2		L	
Batch: 7296668	RICHRC5014			Work Order:	J9NDN1AC		Report DB ID:	J9NDN1CS					
BETA	2.24E+01		1.7E+00	3.3E+00	1.81E+00	pCi/L	100%	2.25E+01	2.60E-01	100%	11/14/07 02:16 p	0.2002	GPC28A
							Rec Limits:	70	130	0.0		L	
Batch: 7319266	RICHRC5014			Work Order:	KCA0N1AC		Report DB ID:	KCA0N1CS					
BETA	2.26E+01		2.4E+00	3.8E+00	2.51E+00	pCi/L	100%	2.23E+01	2.58E-01	101%	11/20/07 07:35 a	0.2018	GPC26D
							Rec Limits:	70	130	0.0		L	

No. of Results: 5 Comments:

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:

The samples had high yields and were then recounted for 200 minutes and now meet the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

Gross Beta Analysis:

The samples minus the QC were right at or slightly exceeded the CRDL and were re-counted for 200 minutes and now meet the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Don Petty
Project Manager

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name: Engineers Inc.
Address: 301 West College Ave. Suite 1
City Silver City State: NM Zip: 88061
Phone: P.O. #

Special INSTRUCTIONS
Contact Wayne Ericson about billing.

Analyses Requested

TRK # (Lab use only)	Sample Description	Date/Time Collected	Number of Containers	Gross Alpha	Gross Beta																	Comments
11007-9973	MW05-01	10/16/07 1120		x	x				J9m4L													
11007-9974	MW05-02	10/16/07 1210		x	x				J9m4G													
11007-9975	MW05-03	10/16/07 1404		x	x				J9m5C													
11007-9976	MW05-04	10/16/07 1036		x	x				J9m5D													
11007-9977	MW05-05	10/16/07 1000		x	x				J9m5E													
11007-9978	MWA	10/16/07 1745		x	x				J9m5F													
11007-9979	MWB	10/16/07 1700		x	x				J9m5G													
11007-9980	NW-9	10/16/07 1718		x	x				J9m5H													
11007-9981	NW-5	10/16/07 1605		x	x				J9m5K													
11007-9982	A-4	10/16/07 1524		x	x				J9m5L													
11007-9983	NW-10	10/16/07 1547		x	x				J9m5M													
11007-9984	A-7	10/16/07 1445		x	x				J9m5P													
11007-9985	A-2	10/16/07 1315		x	x				J9m5Q													
11007-9986	A-2A	10/16/07 1250		x	x				J9m5T													
11007-9987	A-10	10/16/07 1825		x	x				J9m5W													
11007-0049	TORGESEN 1	10/17/07 1315		x	x				J9m5X													
11007-0050	NW-7	10/17/07 1440		x	x				J9m5O													
11007-0051	DUPLICATE 1	10/17/07 1440		x	x				J9m5Y													
11007-0052	A-1	10/17/07 1200		x	x				J9m5Z													
11007-0053	A-5	10/17/07 1030		x	x				J9m6A													
11007-0054	A-6	10/17/07 1050		x	x				J9m6C													
11007-0055	A-9A	10/17/07 0928		x	x				J9m6E													
11007-0056	ARRMAZ	10/17/07 0830		x	x				J9m6L													
11007-0057	LOWRY	10/17/07 1600		x	x				J9m6M													
11007-0058	JRS-8	10/18/07 0945		x	x				J9m6P													
11007-0059	JRS-10	10/18/07 0905		x	x				J9m6R													
11007-0060	JRS-11	10/18/07 0840		x	x				J9m6T													
11007-0061	EQ BLANK	10/18/07 1025		x	x				J9m6V													

RELINQUISHED BY
Signature: G Ryan Pattie
Printed Name: G. RYAN PATTIE
Date/Time: 10/19/07 1600

RECEIVED BY
Signature:
Printed Name: LN LANE
Date/Time: 10-23-07 1000

Lab Use Only

Received Intact?	YES	NO
Labels and Chain Agree?	YES	NO
Container Sealed?	YES	NO

J7J230300
36429
Due 11-14-07

estAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-23-07 1000

Client: ENVIROCHEM SDG #: _____ NA[ ] SAF #: _____ NA [ ]

Work Order Number: _____ Chain of Custody # _____

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [✓] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 28 (2-1LP EA)
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ✓ Broken 1LP OF DUPLICATE 1LP OF TORGESEN
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] HAD TO ADJUST PH
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJR Date: 10-23-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

GROUND WATER ASSESSMENT REPORT
SPRING 2008 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

EI File No. NUW0801P

August 2008

ENGINEERS INC

August 27, 2008

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Spring 2008 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0801P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Spring 2008 activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO).

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

8/27/08

Wayne A. Ericson, P.E.
Engineers Inc.

Cc: Jim Cagle
Alan Skinner

Attachments

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com
Our vision is to be the leading professional team, serving our communities with quality and integrity.

Report

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Figure 2 Site Layout
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Figure 4 Ground Water Sampling Locations
Figure 5 Ground Water Elevation Contour Map
Figure 6 Isopleth Map of Ground Water TDS Concentrations
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APPENDICES

APPENDIX A Monitor Well Purge/Sampling Data Sheets
APPENDIX B Ground Water Elevation Data Summary
APPENDIX C Laboratory Analytical Summary Sheet:
APPENDIX D IAS-Envirochem, Inc., and TAL Richland Laboratory Analytical Reports

1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2**.

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, June and December 2006, May and October 2007 and June 2008. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-12, MW05-1 through 5, MWA and MWB);
- collection of ground water samples from 21 monitoring wells, five on-site production wells, four offsite production wells (Simplot well JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);
- collection of quality assurance samples, including duplicate samples and an equipment blank;
- submittal of the ground water samples to IAS-Envirochem, Inc., and TAL Richland (formerly Severn Trent Laboratories, Inc. (STL)) for laboratory analysis of the parameters listed in the approved GWMP; and,
- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of all available laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1
Summary of Assessment Activities and Completion Dates

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	2003 – 2005	June-Dec 2006	April-May 2007	Oct 2007	June 2008
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--	X A-11 and 12	--	
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--		--	
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--	--	--	
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--	--	--	
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X

NUW 005536

2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-12, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2,** and the locations of the wells are shown on **Figure 3**. These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data Conda Phosphate Operations Spring 2008				
Well ID	**Data Collection Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Est. Ground Water Elevation (feet)**
A-1	June 2008	6,221.7	33.3	6188.4
A-2	June 2008	6,156.8	10.9	6145.9
A-3	June 2008	6,149.8	95.4	6054.4
A-4	June 2008	6,149.8	45.2	6104.6
A-5	June 2008	6,150.4	89.1	6061.3
A-6	June 2008	6,150.2	103.8	6046.4
A-7	June 2008	6150.5	97.7	6052.8
A-8	June 2008	6,149.0	122.4	6026.6
A-9A	June 2008	6,146.3	118.4	6027.9
A-10	June 2008	6,124.3	137.7	5986.6
A-11	June 2008	6,147.0	138.8	6008.2
A-12	June 2008	6,125.0	108.7	6016.3
A-2A	June 2008	6,161*	11.1	6149.9
MWA	June 2008	6,155.8	52.1	6103.7
MWB	June 2008	6,162.5	61.2	6101.3
MW05-1	June 2008	6,160 *	113.6	6046.4
MW05-2	June 2008	6,160*	15.9	6145.1
MW05-3	June 2008	6,152*	56	6096
MW05-4	June 2008	6,174*	179.9	5994.1
MW05-05	June 2008	6,178*	184.7	5993.3

*Estimated from topographic map

2.2 Ground Water Sampling

In June 2008 water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Aquatech LLC for Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; plant site monitoring wells
- Five monitoring wells associated with the Phase I gypsum stack expansion
- Two off-site (Torgesen Ranch) monitoring wells, A-11 and 12
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well (located at the Arr-Maz Products, Inc. facility); and,
- The domestic/ranch wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3.**

Table 3
Summary of Field Parameter Readings
Spring 2008

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	7.83	442	9.6
A-2	7.39	701	10.7
A-3	6.60	1307	10.0
A-4	6.51	2410	8.0
A-5	7.19	1219	10.8
A-6	6.49	2830	13.5
A-7	6.51	3430	13.6
A-8	6.83	3240	9.8
A-9A	6.54	2560	10.0
A-10	7.32	894	10.8
A-11	6.37	1303	9.3
A-12	7.5	933	7.4
A-2A	7.59	704	8.8
*NW-1	NA	NA	NA
NW-5	6.96	864	10.0
NW-7	7.78	710	8.8
NW-8	8.03	452	NA
NW-9	6.48	1405	9.8
NW-10	7.98	869	7.9
*MT Fuel	NA	NA	NA
JRS 10	6.86	1507	9.6
JRS 11	7.85	519	8.6
ARR-MAZ	7.09	948	16.8
LOWRY	7.80	595	8.5
TORGESEN	7.58	1010	7.3
MWA	6.02	3000	10.1
MWB	4.90	2240	12.3
JRS-8	6.57	1269	9.1
MW05-1	7.39	714	9.8
MW05-2	7.48	720	8.8
MW05-3	7.57	874	8.4
MW05-4	7.57	750	10.0
MW05-5	7.04	814	9.4

Notes: 1) µS/cm = microSiemens per centimeter; °C = degrees Celsius
* well not sampled; pump not working

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were

operating in an "on demand" mode. Prior to sample collection, sampling ports or valves in the piping on the downstream side of each well pump were opened to remove stagnant water from the fitting. At each location, a minimum of 10 to 20 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.03	mg/L
Ammonia (Total)	350.3	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.7	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	325.2	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.8	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	353.2	1	mg/L
Nitrogen (Total) and TKN	351.4	0.5	mg/L
Orthophosphate	365.1	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.1	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for June 2008 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated upward as compared to October 2007. Water levels in wells A-2 and A-2A probably reflect the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through June 2008 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevations Oct. 2007 (ft. NGVD)	Ground Water Elevations June 2008 (ft. NGVD)	Ground Water Elevation Difference from 10/07- 06/08 (feet)
A-1	6187.7	6188.4	+0.7
A-2	6146.8	6145.9	-0.9
A-3	<6038.8	6054.4	+15.6
A-4	6080.8	6104.6	+23.8
A-5	6046.0	6061.3	+15.3
A-6	6038.2	6046.4	+8.2
A-7	6038.5	6052.8	+14.3
A-8	6021.5	6026.6	+5.1
A-9/A-9A	6018.3	6027.9	+9.6
A-10	5986.3	5986.6	+0.3
A-2A	6150.4	6149.9	-0.5
MW05-1	6045.0	6046.4	+1.4
MW05-2	6145.4	6145.1	-0.3
MW05-3	6072.0	6096	+24
MW05-4	5991.0	5994.1	+3.1
MW05-5	5988.0	5993.3	+5.3
MW A	6099.8	6103.7	+3.9
MW B	6100.5	6101.3	+0.8
A-11	<6004	6008.2	+4.2
A-12	6015.0	6016.3	+1.3

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results is provided in a table contained in **Appendix C**. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-4, A-5, A-6, A-7, A-8, A-9A, A-10, A-12, MW 05-3 and 5, JRS-8 and JRS-10) reveal levels of TDS above the state standard of 500 mg/l. Production wells NW-5, NW-7, NW-9, NW-10 and JRS-10 and the Torgesen and Arr-Maz wells also revealed TDS levels above 500 mg/l.

Maps of TDS and ammonia concentrations for June 2008 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed significantly higher levels as compared to sampling intervals in October 2007.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient and plant monitor wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in up-gradient wells (wells A-1, A-2A, NW-7 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the October 2007 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous and aluminum, as compared to the up gradient background wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the up-gradient wells) collected from the monitoring wells

west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The monitoring wells installed in 2005 around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

8) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

9) The water in the Torgesen Ranch well does not appear to show measurable impacts, from the stack spill in late December 2006 based on the semi-annual sampling events. Monitoring well MW-11, closest to the 2006 spill area does appear to show some impacts based on the levels of phosphorous, TDS, potassium and total nitrogen as compared to well MW-12 and nearby background wells.

10) A review of historical indicator parameters for wells JRS-8 and JRS-10, south and down gradient of the March 2007 gypsum line spill limits appears to reveal no measurable impacts from that event, based on the sampling.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (at least semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

5.0 REFERENCES

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TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	270	222	284	292	208	270	294	278	252
A-2	370	378	416	430	436	412	388	N.S.	N.S.
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.
A-4	455	546	758	644	740	1,074	998	1,002	1,186
A-5	740	552	554	622	646	708	760	824	790
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622
NW-7	470	542	542	498	452	560	562	568	536
NW-8	245	232	328	304	290	322	304	344	308
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548
JRS-11	N.S.	1,350	328	398	342	398	292	370	356
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804
Lowry	N.S.	N.S.	340	422	356	460	290	440	358
Torgesen	645	590	544	588	552	1,494	672	722	762
JRS 8						Wells First Sampled in June 2005			
MW A									
MW B									

NOTE: N.S.= Not sampled

Table 7 Page 2 of 2

TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Total Dissolved Solids Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08
A-1	256	266	298	278	264	280	246	286	284
A-2	N.S.	390	N.S.	432	436	426	392	480	446
A-3	N.S.	N.S.	N.S.	N.S.	930	822	928	NS	1120
A-4	1,564	1,810	1,880	1,844	2,238	1,880	1,644	1708	2410
A-5	730	770	780	800	908	890	896	1000	1152
A-6	N.S.	N.S.	N.S.	N.S.	2,234	2,368	2,174	1992	2796
A-7	N.S.	N.S.	N.S.	N.S.	2,728	2,954	2,864	3080	2986
A-8	N.S.	N.S.	N.S.	N.S.	3,160	2,962	2,806	NS	2876
A-9/A-9A	1,990	1,764	1,774	1,602	1,858	2,170	2,188	1970	2438
A-10	682	596	650	660	672	674	612	704	730
MF Well	N.S.	1,078	1,138	1,080	N.S.	N.S.	N.S.	NS	NS
NW-1	1,486	1,664	1,102	1,506	N.S.	N.S.	N.S.	NS	NS
NW-5	2,130	1,816	2,432	914	N.S.	658	1,780	1512	686
NW-7	554	554	472	514	556	596	538	604	654
NW-8	328	320	304	312	310	348	284	NS	378
NW-9	N.S.	2,882	1,970	1,526	1,538	1,606	1,316	1500	1640
NW-10	686	742	652	670	660	616	594	700	666
JRS-10	1,458	1,534	1,274	1,256	1,366	1,510	1,508	1504	1554
JRS-11	374	402	374	386	396	374	352	368	390
Arr-Maz	572	682	656	732	728	714	782	824	820
Lowry	418	404	430	404	460	412	398	456	458
Torgesen	812	744	786	816	936	916	904	988	806
JRS 8			1,256	1,166	1,488	1,202	1,198	1200	1276
MW A			2,860	3,360	3,282	2,794	2,158	2578	2574
MW B			3,198	3,872	1,826	2,304	8,792	5304	2992
A--11							1,122	NS	1042
A-12							720	594	712
MW05-1				428	414	446	414	444	462
MW05-2				486	482	496	444	468	466
MW05-3				558	432	550	550	618	580
MW05-4				434	378	440	466	462	498
MW05-5				702	434	552	542	632	540

TE: N.S.= Not sampled

P\NUW0801P\Spring 2008 Historical Trends - Tables 7-11
TDS

Table 8 Page 1 of 2

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Total Nitrogen Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not sampled

Table 8 Page 2 of 2

TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Total Nitrogen Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct. 07	Jun-08
A-1	1.20	<0.5	<0.5	<0.5	20.1	<0.5	0.9	<0.5	<0.5
A-2	N.S.	3.9	N.S.	<0.5	0.7	<0.5	0.7	<0.5	<0.5
A-3	N.S.	N.S	N.S.	N.S.	2.3	1.9	<0.5	NS	3.4
A-4	6.00	5.6	8.5	8.5	25.0	18.9	<0.5	11.6	19.0
A-5	1.40	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	1.0	<0.5
A-6	N.S.	N.S.	N.S.	N.S.	57.0	34.9	14.9	12.7	40.2
A-7	N.S.	N.S.	N.S.	N.S.	104.0	84	105.2	71.9	84.2
A-8	N.S.	N.S.	N.S.	N.S.	86.0	73	98.4	NS	77.4
A-9/A-9A	7.10	7.3	6.8	6.1	7.8	10.9	10.6	9.4	14.4
A-10	8.20	8.0	7.1	7.4	7.4	7.1	6.8	10.1	7.1
MF Well	N.S.	2.7	2.3	1.0	N.S.	N.S.	N.S.	NS	NS
NW-1	15.20	20.1	3.5	19.3	N.S.	N.S.	N.S.	NS	NS
NW-5	50.70	9.7	41.4	8.9	N.S.	1.7	10.2	14.6	1.3
NW-7	4.20	3.6	6.4	4.2	3.8	3.4	3.2	3.7	3.6
NW-8	3.60	2.8	3.1	2.8	3.2	3.0	2.6	NS	3.3
NW-9	N.S.	23.3	22.9	14.8	27.7	17.0	15.0	17.6	28.9
NW-10	<1.0	0.7	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
JRS-10	23.80	21.4	19.2	16.7	27.8	21.4	22.2	21.6	30.2
JRS-11	2.0	1.4	1.5	1.5	1.0	1.2	1.4	1.4	1.3
Arr-Maz	1.30	<0.5	1.0	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
Lowry	13.10	12.0	17.4	14.1	17.1	15.7	12.1	13.1	15.6
Torgesen	35.0	33.2	38.3	39.3	52.0	39	41.0	34.0	33.7
JRS 8			16.0	8.1	28.9	13.6	16.7	11.0	18.4
MW A			122.0	84.0	237.0	178	225.0	166.0	272.6
MW B			17.8	24.2	9.9	10.5	10.9	31.6	14.8
A-11							12.3	NS	24.4
A-12							1.1	NS	1.5
MW05-1				1.8	2.4	1.6	1.9	1.6	1.2
MW05-2				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW05-3				<0.5	<0.5	<0.5	0.7	2.4	<0.5
MW05-4				3.70	3.4	1.6	3.5	3.2	2.60
MW05-5				1.40	3.0	2.2	2.3	2.0	1.6

NOTE: N.S. = Not sampled

Table 9 Page 1 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Sulfate Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	17	11	11	12	12	12	8	12	13
A-2	29	32	37	36	54	34	42	N.S.	N.S.
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.
A-4	37	40	70	47	60	212	156	135	279
A-5	104	104	119	129	133	167	172	189	193
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	844	535	666	916	125	68	947	781	550
NW-7	166	164	157	81	85	148	146	138	139
NW-8	26	43	27	27	26	28	27	36	27
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167
JRS-10	N.S.	563	554	395	576	694	553	594	592
JRS-11	N.S.	56	55	54	52	53	49	51	53
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36
Lowry	N.S.	N.S.	56	47	51	60	48	51	48
Torgesen	58	55	55	52	55	587	60	61	60
JRS 8									
MW A									
MW B									

NOTE: N.S. = Not Sampled

Table 9 Page 2 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Sulfate Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08
A-1	11	6	6	7	8.0	<5	8	22	4
A-2	N.S.	43	N.S.	30	39.0	35	36	40	34
A-3	N.S.	N.S.	N.S.	N.S.	118.0	128	15	NS	100
A-4	426	502	490	424	600.0	406	330	311	694
A-5	188	194	198	205	220.0	197	228	203	268
A-6	N.S.	N.S.	N.S.	N.S.	516.0	716	605	508	998
A-7	N.S.	N.S.	N.S.	N.S.	975.0	1,103	1,106	1195	1201
A-8	N.S.	N.S.	N.S.	N.S.	1132.0	1,081	931	NS	850
A-9/A-9A	623	557	470	424	582.0	722	668	565	868
A-10	110	107	101	84	98.0	100	84	112	99
MF Well	N.S.	265	269	201	N.S	N.S.	N.S.	NS	NS
NW-1	731	610	429	436	N.S	N.S.	N.S.	NS	NS
NW-5	804	547	920	184	N.S	168	646	479	165
NW-7	142	137	109	111	148.0	154	134	149	170
NW-8	38	25	27	18	29.0	25	20	NS	31
NW-9	N.S.	937	824	518	647.0	603	538	567	598
NW-10	194	233	199	151	154.0	144	145	156	168
JRS-10	560	549	384	345	424.0	522	521	510	555
JRS-11	55	49	59	44	60.0	47	44	48	53
Arr-Maz	34	30	31	26	33.0	30	31	31	33
Lowry	53	48	67	17	61.0	59	47	50	54
Torgesen	60	62	68	54	72.0	71	66	66	74
JRS 8			464	265	556.0	455	464	445	481
MW A			1,545	1,546	1121.0	1,025	708	748	736
MW B			1,185	1,027	784.0	1,093	579	1608	1558
A-11							188	NS	187
A-12							33	NS	35
MW05-1				19	27	24	25	22	23
MW05-2				36	49	51	48	43	40
MW05-3				67	69	65	69	75	75
MW05-4				20	28	30	31	27	29
MW05-5				105	70	57	63	81	56

NOTE: N.S. = Not Sampled

Table 10 Page 1 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH June 2008

Well ID	Sodium Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.70
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140.00
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200.00
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.00
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103.00
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.00
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.00
JRS 8									
MW A					Wells not sampled until June 2005				
MW B									

Table 10 Page 2 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH June 2008

Well ID	Sodium Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08
A-1	5.87	6.57	6.06	6.7	6.1	6.99	6.9	7.1	5.9
A-2	N.S.	4.99	N.S.	5.1	4.6	4.72	6.9	6.1	4.5
A-3	N.S.	N.S.	N.S.	N.S.	26.9	27.97	31.6	NS	44.0
A-4	63.00	108	102	133.0	106.0	72.8	72.3	57.4	112.4
A-5	17.80	19.0	13.7	18.3	19.5	20.25	21.7	20.1	20.1
A-6	N.S.	N.S.	N.S.	N.S.	279.0	340	265	155.5	331.6
A-7	N.S.	N.S.	N.S.	N.S.	569.0	640	549	523.0	582.2
A-8	N.S.	N.S.	N.S.	N.S.	532.0	627	576	NS	539.2
A-9/A-9A	131	132	96	102.0	124.0	184	213	139.4	214.1
A-10	16.30	17.9	16.2	17.4	15.8	17.53	18.00	16.1	15.2
MF Well	N.S.	56.4	50.6	48.0	N.S.	N,S	N.S.	NS	NS
NW-1	80.30	116	70	108.0	N.S.	N.S.	N.S.	NS	NS
NW-5	277	223	300	63.0	N.S.	18.34	126	125.0	18.2
NW-7	12.0	11.5	12.4	11.5	12.3	13.13	14.0	12.6	11.5
NW-8	9.0	8.55	8.34	8.6	9.0	9.51	9.9	NS	8.3
NW-9	N.S.	95.8	66.5	62.0	85.8	68.81	71.40	62.3	80.1
NW-10	12.0	12.3	13.7	12.0	10.4	11.98	12.9	12.4	10.9
JRS-10	100	92.3	72.9	86.0	73.6	100.20	124	109.0	107.9
JRS-11	7.0	34.1	8.4	7.3	7.7	8.16	8.5	7.1	7.0
Arr-Maz	5.75	6.37	7.00	6.5	6.4	7.39	7.28	6.3	6.0
Lowry	22.70	20.4	33.4	21.0	35.8	26.25	29.6	21.2	22.8
Torgesen	15.40	18.20	19.30	18.7	19.8	18.79	23.25	18.1	16.0
JRS 8			63.5	53.6	78.4	69.84	81.5	69.7	70.9
MW A			134.0	160.0	108.0	124	103	91.7	93.5
MW B			120.0	164.0	86.0	88.9	75.9	166.4	119.0
A-11							84.5	NS	80.3
A-12							29.4	12.3	20.6
MW05-1				8.0	7.0	8.0	8.0	7.2	7.3
MW05-2				5.0	5.0	6.0	5.0	4.5	4.3
MW05-3				8.0	7.0	8.0	8.0	7.1	6.9
MW05-4				7.0	8.0	7.0	8.0	6.3	6.6
MW06-5				23.0	20.0	17.0	15.0	15.5	12.9

NOTE: N.S. = NOT Sampled

Table 11 Page 1 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2007

Well ID	Aluminum Concentrations (mg/L)								
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86
JRS 8					Wells not sampled until June 2005				
MW A									
MW B									

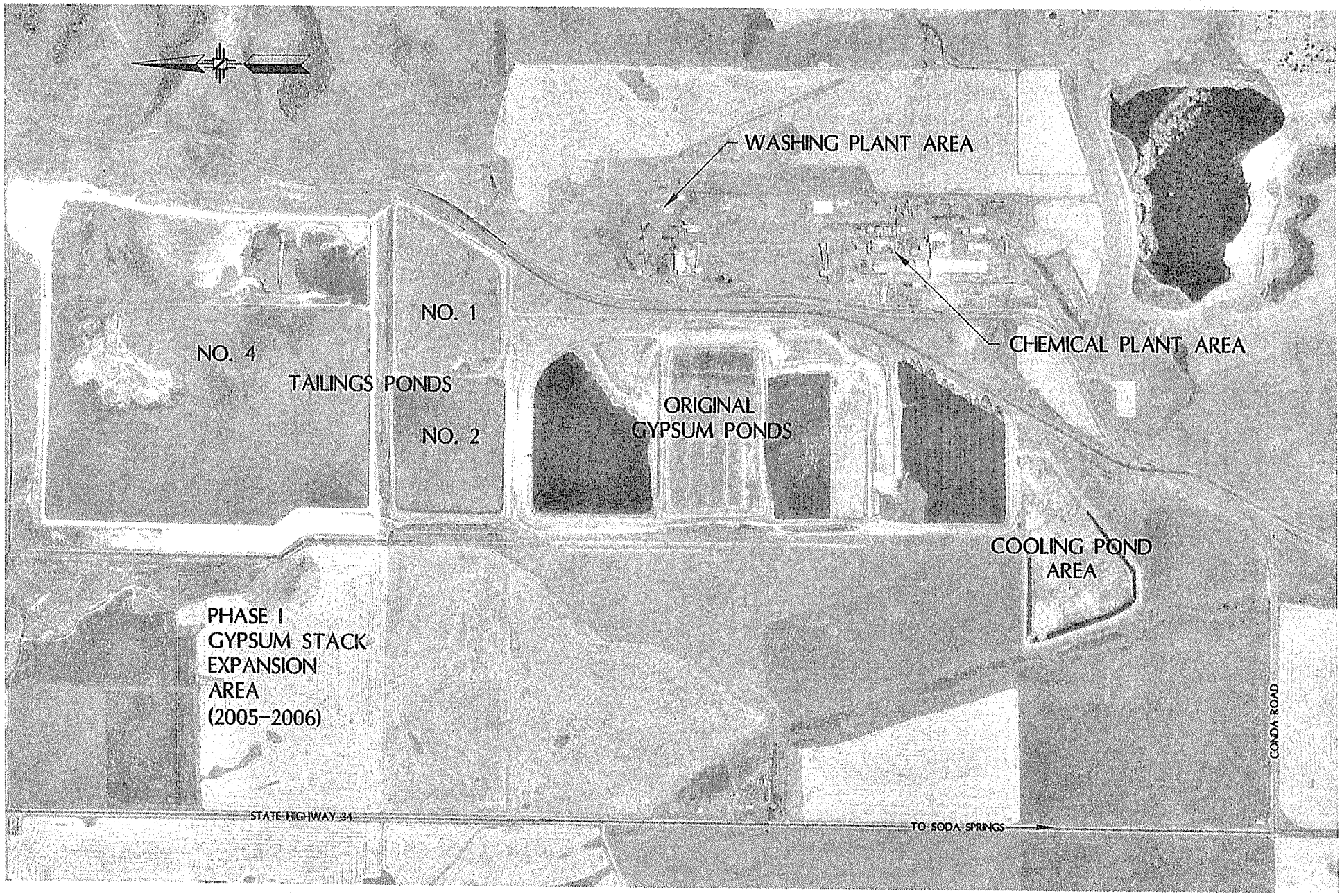
Table 11 Page 2 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH JUNE 2008

Well ID	Aluminum Concentrations (mg/L)								
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08
A-1	<0.03	<0.03	0.4	<0.03	<0.03	<0.03	<0.03	<0.03	0.06
A-2	N.S.	0.14	N.S.	<0.03	<0.03	<0.03	<0.03	<0.03	0.03
A-3	N.S.	N.S.	N.S.	N.S.	0.05	0.06	<0.03	NS	0.12
A-4	0.31	0.22	<0.03	0.46	<0.03	<0.03	<0.03	<0.03	0.05
A-5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02
A-6	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	0.06
A-7	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	0.04
A-8	N.S.	N.S.	N.S.	N.S.	0.07	0.07	<0.03	NS	0.02
A-9/A-9A	0.57	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03	0.04
A-10	<0.03	<0.03	<0.03	0.17	<0.03	0.03	<0.03	<0.03	0.04
MF Well	N.S.	<0.03	<0.03	<0.03	N.S	N.S.	N.S.	NS	NS
NW-1	1.52	<0.03	0.13	<0.03	N.S	N.S.	N.S.	NS	NS
NW-5	<0.03	<0.03	<0.03	<0.03	N.S	<0.03	<0.03	<0.03	0.03
NW-7	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	0.05	<0.03	0.01
NW-8	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	NS	0.02
NW-9	N.S.	94.1	30.7	8.5	20.20	14.50	0.31	0.9	0.77
NW 10	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.02
JRS-10	<0.03	0.76	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	0.01
JRS-11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02
Arr-Maz	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.02
Lowry	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02
Torgesen	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02
JRS 8			<0.03	<0.03	<0.03	0.05	<0.03	<0.03	0.02
MW A			6.90	8.90	1.43	2.8	1.30	0.76	1.43
MW B			353	308	25.20	26.70	8.9	105	55.12
A-11							<0.03	<0.03	0.27
A-12							<0.03	<0.03	0.11
MW05-1				<0.03	<0.03	<0.03	<0.03	<0.03	0.02
MW05-2				<0.03	<0.03	<0.03	<0.03	<0.03	0.03
MW05-3				<0.03	<0.03	<0.03	<0.03	<0.03	0.03
MW05-4				<0.03	<0.03	<0.03	<0.03	<0.03	0.03
MW05-5				0.11	<0.03	<0.03	<0.03	<0.03	0.02

Note: N.S. = not sampled

Figures

NUW 005557



DATE 09-03-08
JOB # NUW0801P
DWG. BY ONG
REVISIONS 8/29/08 PAS
FILE: \\ P:\ NUW0801P\ PLANS\FIG1.DWG

PROJECT
JUNE 2008
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

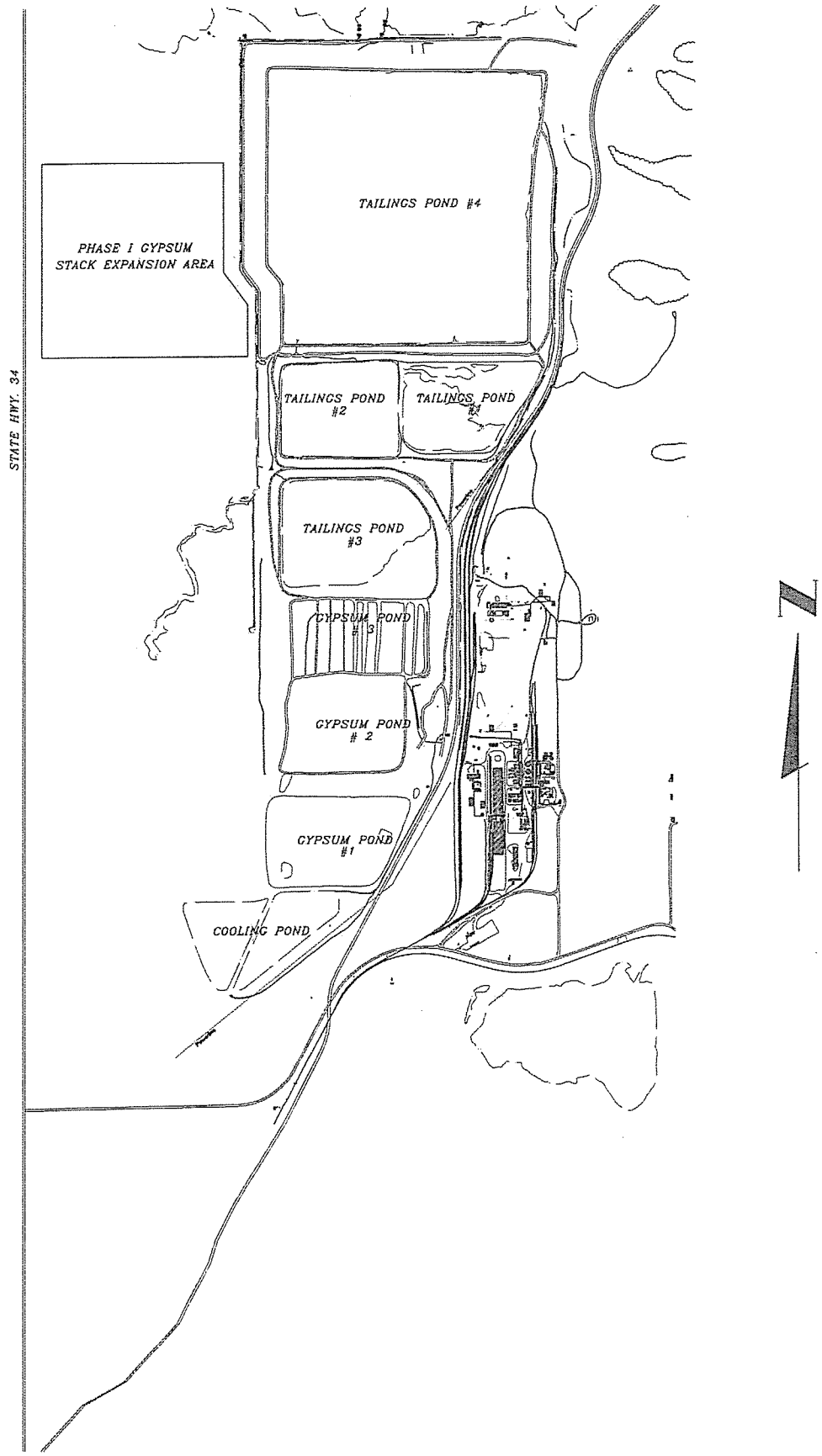
ENGINEERS INC
301 W. COLLEGE AVE. SUITE 1
SILVER CITY, NEW MEXICO
(505) 538-5395 (OFFICE)
(505) 538-5410 (FAX)

TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

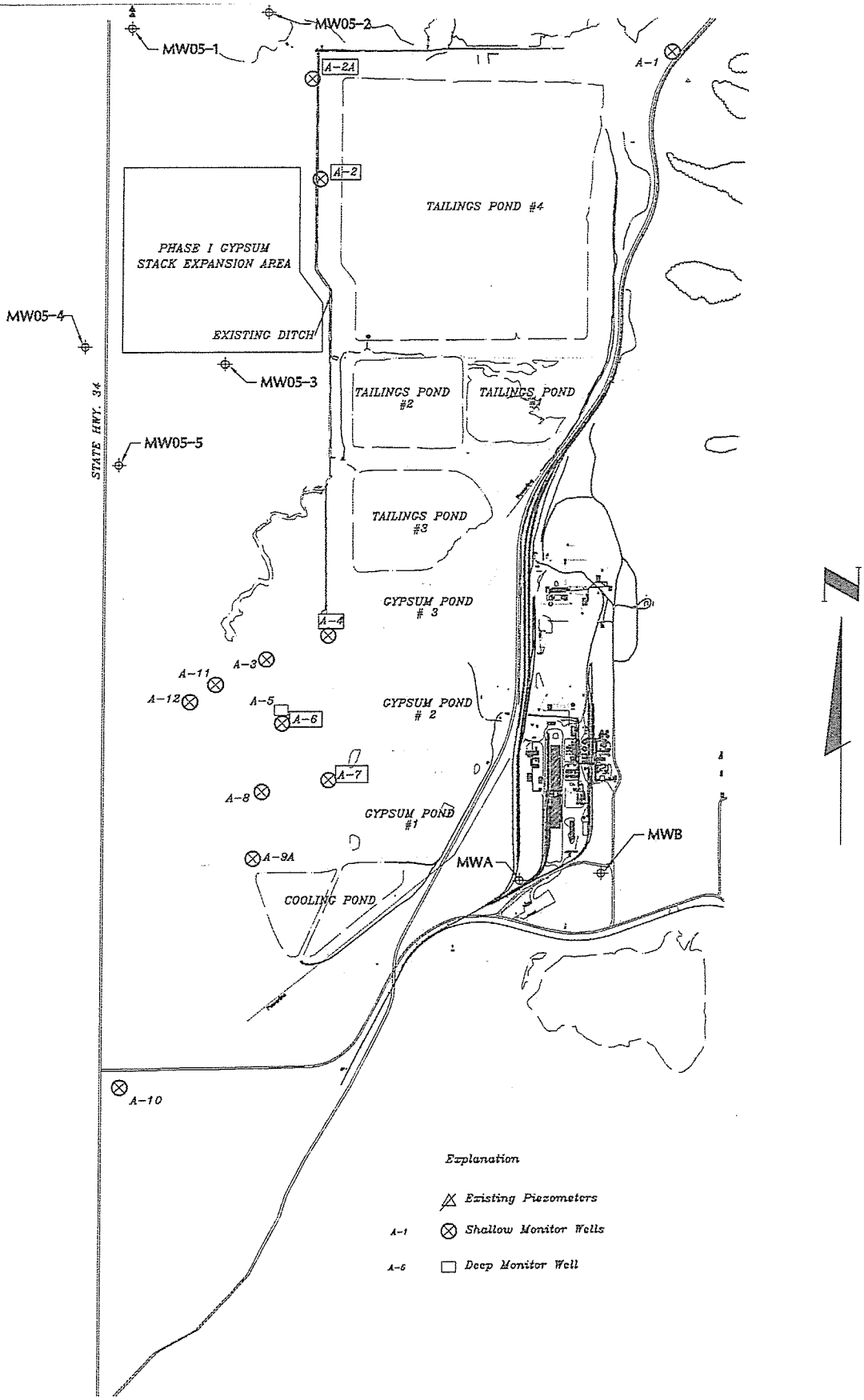
NUW 005558



ENGINEERS INC
301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061
(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P



ENGINEERS INC

301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061

(505)538-5395(OFFICE)
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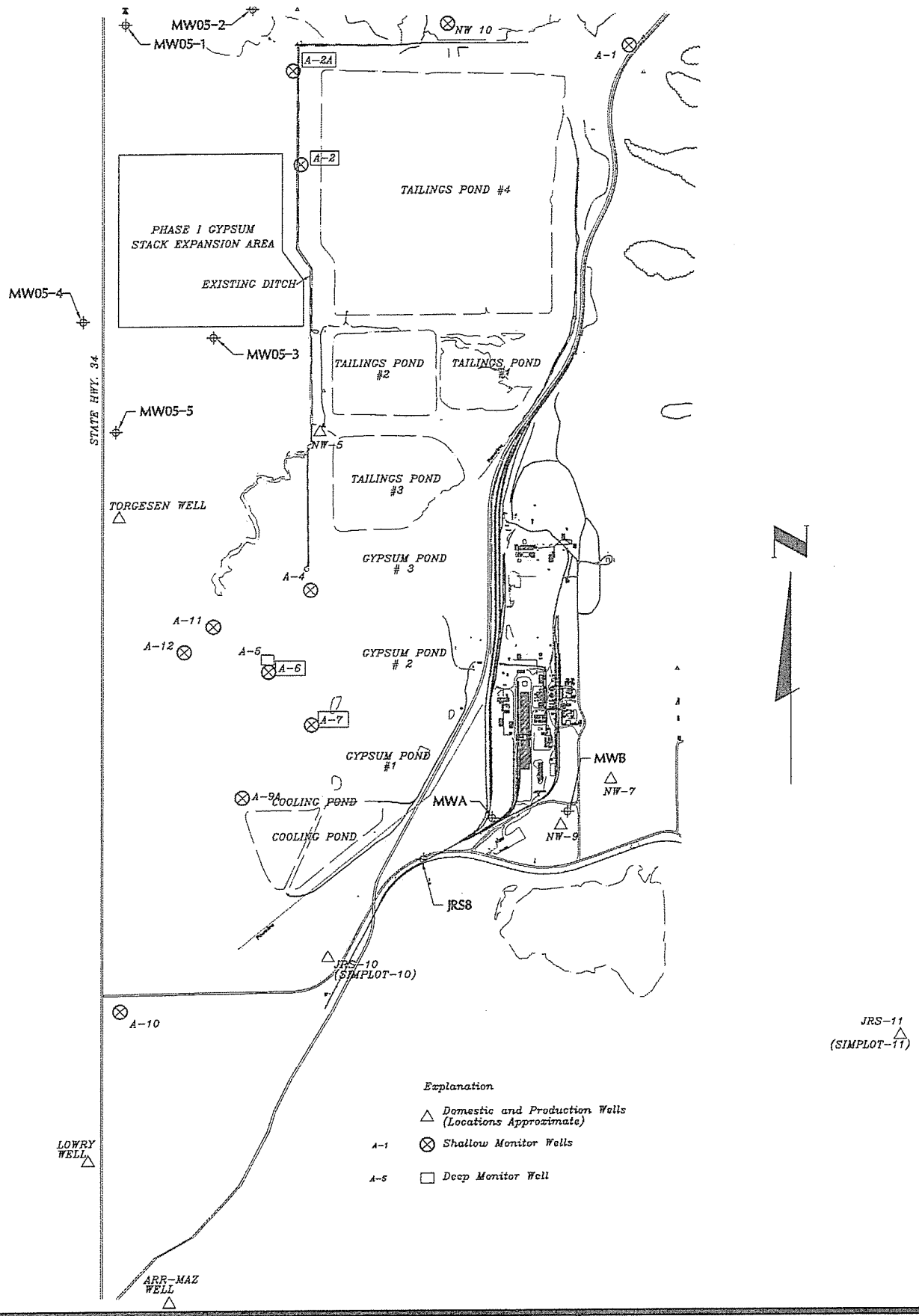
FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
JUNE 2008
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P



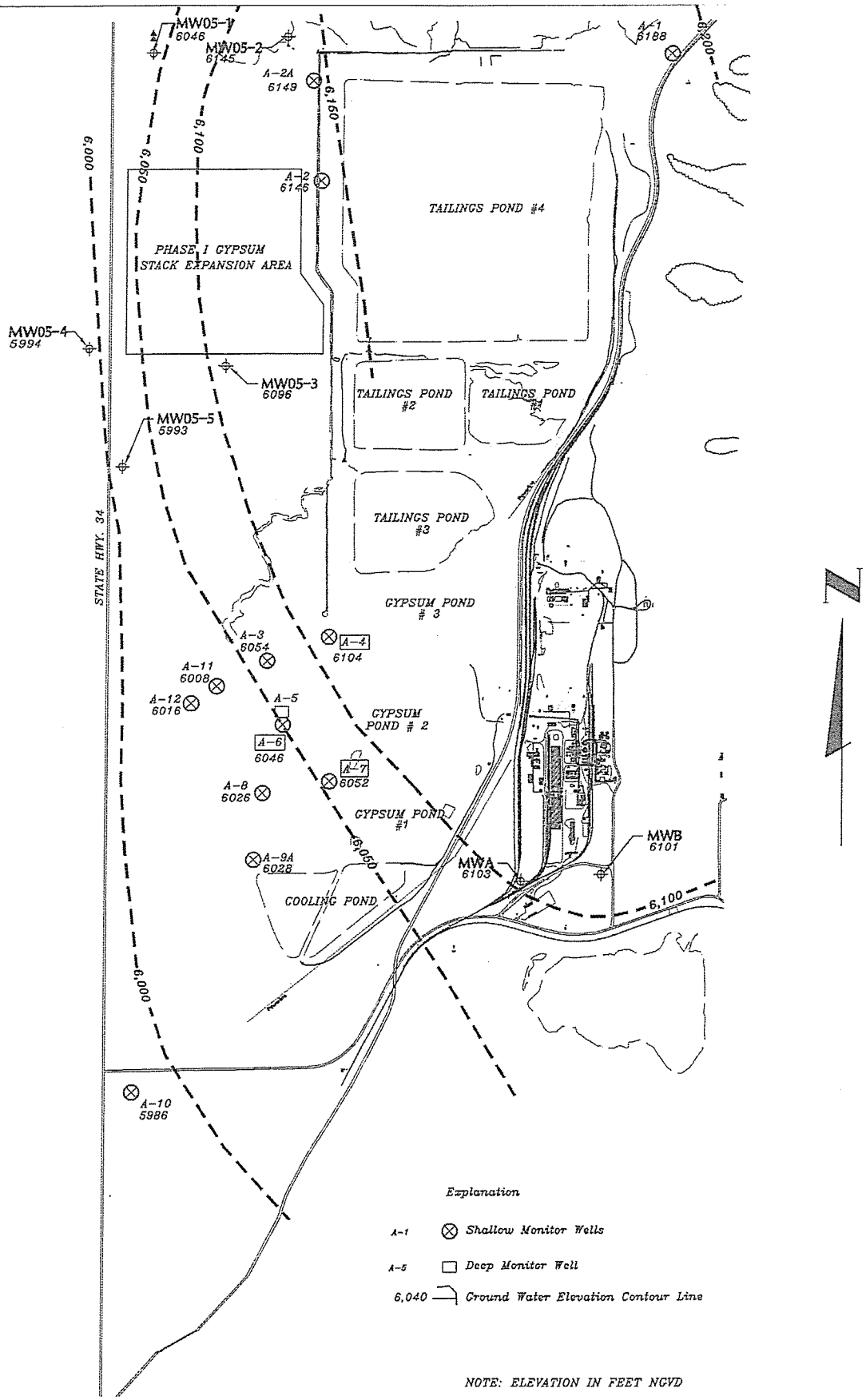
ENGINEERS INC

301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061

(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 4
GROUND WATER SAMPLING LOCATIONS
JUNE 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P



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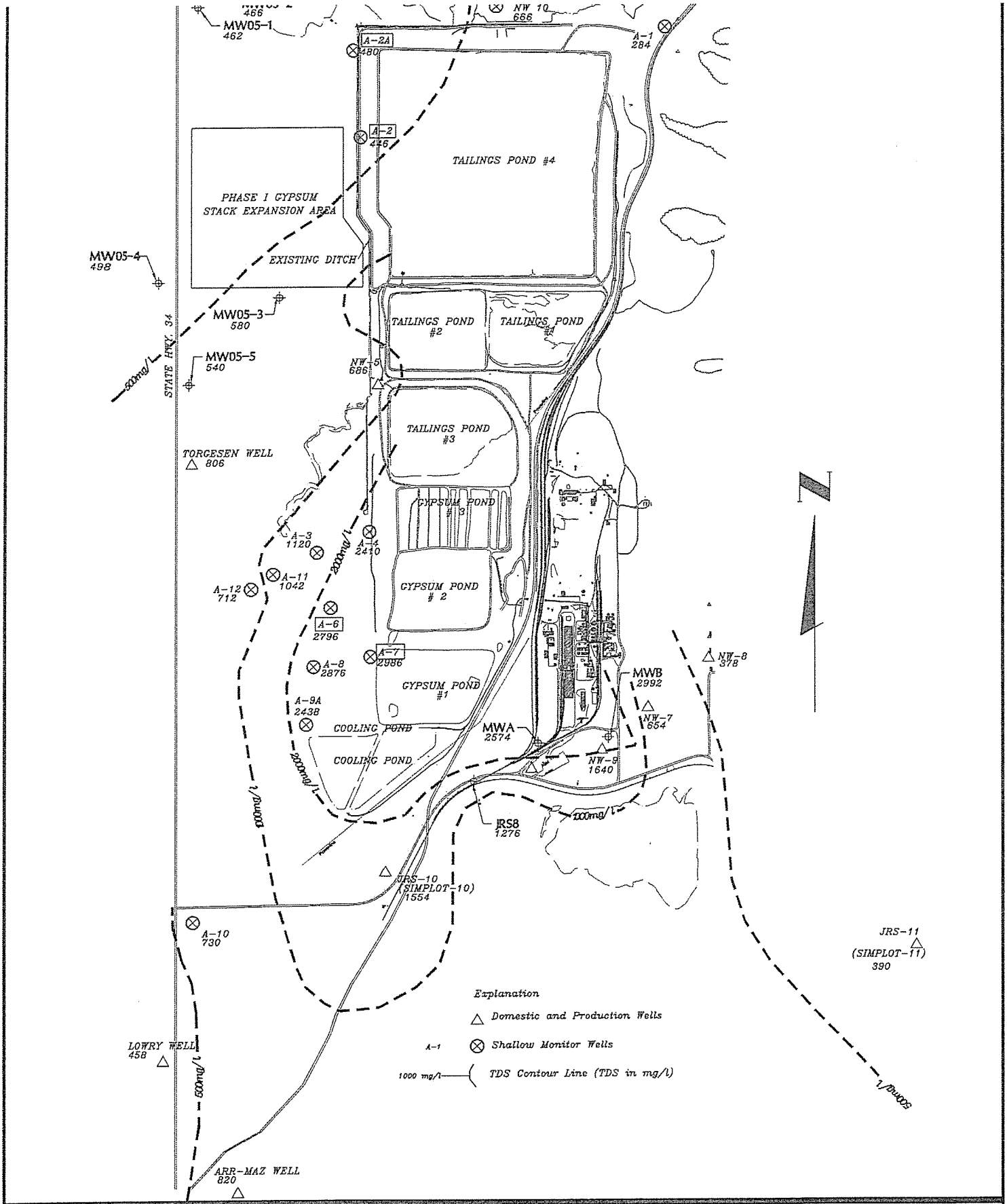
(505)538-5410 (FAX)

FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
JUNE 2008
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 8/08 PAS	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P



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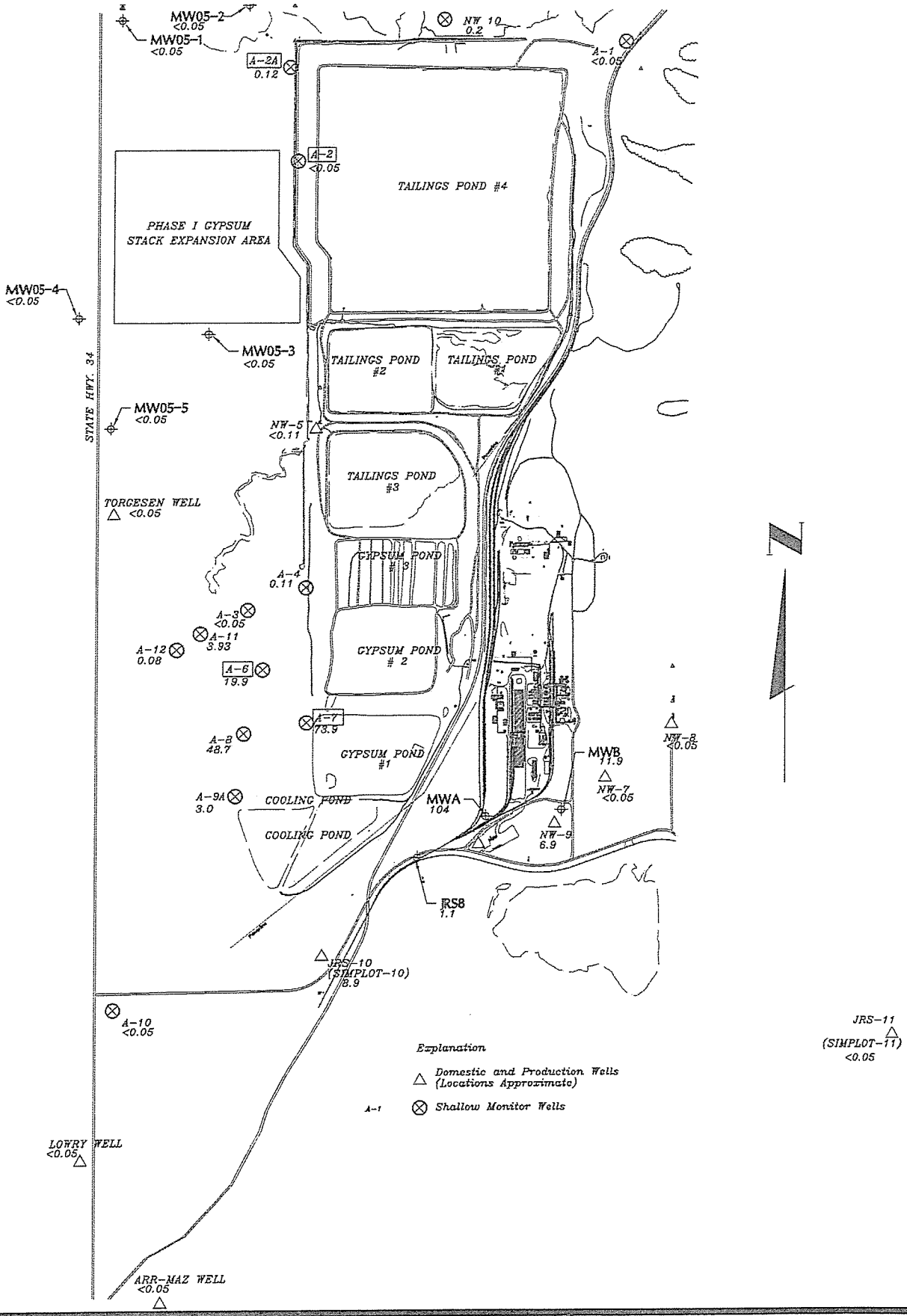
(505)538-5410 (FAX)

FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-JUNE 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P



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(505)538-5410 (FAX)

FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS-JUNE 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0801P

APPENDIX A

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-1

DAY/DATE: 060908

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 265

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 113.55

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 113.55 = (h) 151.45

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 24.84

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 74.52

PUMPING RATE 357.61 Hz 4.3A

[Volume of Container (gallons)] 4 / 2.15 [Fill time (minutes)] = 1.9 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1630	7.45	705	10.0		clear
2	1640	7.43	720	9.9		Clear
3	1650	7.36	703	9.7		Clear
4	1700	7.36	719	9.6		clear
5						
Sample	1710	7.39	714	9.8		Clear

SAMPLE DESCRIPTION: Pump set at 135 ft.

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 060908

NUW 005566

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-2

DAY/DATE: 060908

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 97

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite / Offsite — Monitor / Domestic / Production

DEPTH TO WATER (feet): (b) 15.9

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 15.9 = (h) 81.1

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 39.9

PUMPING RATE 331.68 Hz 4.3A

[Volume of Container (gallons)] 4 / 1.87 [Fill time (minutes)] = 2.1 gallons/minute

19 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1840	7.54	727	8.9		Clear
2	1845	7.51	731	8.8		Clear
3	1850	7.49	723	8.8		Clear
4	1855	7.47	726	8.8		Clear
5						
Sample	1900	7.48	720	8.8		Clear

SAMPLE DESCRIPTION: Pump set at 40

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 060908

NUW 005567

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-3

DAY/DATE: 0609-08

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 238

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 56

WATER COLUMN HEIGHT (feet) = (a) 238 - (b) 56 = (h) 182

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 29.85

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 89.55

PUMPING RATE 344.73Hz 4.5A

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	17:35	7.55	865	9.1		Clear
2	17:45	7.52	853	8.7		Brown
3	17:55	7.56	871	8.5		Cloudy
4	18:05	7.57	874	8.4		Clear
5						
Sample	18:20	7.57	874	8.4		Clear

SAMPLE DESCRIPTION: Pump set a 90ft

NOTES:

Signature of Sampling Personnel: [signature] Date 06 09 08

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-4

DAY/DATE: 060908

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 179.92

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 179.92 = (h) 80.08

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 13.13

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 39.4

PUMPING RATE 349.80 Hz 4.2 A

[Volume of Container (gallons)] 4 / 4.17 [Fill time (minutes)] = 0.96 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1530	7.53	740	9.6		Muddy
2	1540	7.41	784	10.0		clear
3	1550	7.49	756	10.0		clear
4	1600	7.43	747	10.0		Clear
5						
Sample	1610	7.57	750	10.0		Clear

41 min.

SAMPLE DESCRIPTION: Pump set at 190

NOTES:

Signature of Sampling Personnel: Taylor Pobs Date 060908

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	060908	0630	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4.00	7.01	10.00
Conductance (umhos/cm)	1413		
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-5

DAY/DATE: 060908

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 184.70

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 184.7 = (h) 75.3

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 12.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 37.0

PUMPING RATE: 343-88 Hz 4.2A

[Volume of Container (gallons)] 4 / 4.44 [Fill time (minutes)] = 0.9 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1425	7.12	800	9.1		Clear
2	1440	7.14	801	9.3		Clear
3	1450	7.06	810	9.2		Clear
4	1500	7.11	812	9.3		Clear
5	1510	7.04	814	9.4		Clear
Sample	1510	7.04	814	9.4		Clear

41.1 min.

SAMPLE DESCRIPTION: Pump set at 193ft.

NOTES:

Signature of Sampling Personnel: Taylor Pattie Date 060908

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-6

DAY/DATE: 061008

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 119

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 103.88

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 103.88 = (h) 15.12

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.48

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 7.44

PUMPING RATE 372.55 Hz 4.9 A

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1355	6.60	2850	13.4		muddy
2						
3						
4						
5						
Sample	1400	6.49	2830	13.5		cloudy

SAMPLE DESCRIPTION:

NOTES: Pump set at 112

Signature of Sampling Personnel: [signature] Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-3

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 108

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 95.35

WATER COLUMN HEIGHT (feet) = (a) 108 - (b) 95.35 = (h) 12.65

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 6.3

PUMPING RATE 310.54 Hz 4.1 A

[Volume of Container (gallons)] 4 / 4 [Fill time (minutes)] = 1 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1320	6.60	1305	10.0		Cloudy
2						
3						
4						
5						
Sample	1330	6.60	1307	10.0		Cloudy

6.3 min

SAMPLE DESCRIPTION:

NOTES: Pump set at 105

Signature of Sampling Personnel: [signature] Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SNOWY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-8

DAY/DATE: 061108 WED

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 128

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 122.4

WATER COLUMN HEIGHT (feet) = (a) 128 - (b) 122.4 = (h) 5.6

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 0.92

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 2.8

PUMPING RATE

[Volume of Container (gallons)] 4 / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1015	6.83	3240	9.8		muddy
2						
3						
4						
5						
Sample	1020	6.83	3240	9.8		muddy

SAMPLE DESCRIPTION:

NOT ENOUGH WATER FOR RADS

NOTES: Pump set at 126. well pumped dry / sampled

Signature of Sampling Personnel: Taylor Potts

Date 061108

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Rain		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A 9A

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

TOTAL WELL DEPTH (feet) (a): 151

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 118.41

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 118.41 = (h) 32.59

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5.34

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 16.02

PUMPING RATE 343.26Hz 4.4A

[Volume of Container (gallons)] 4 / 2.6 [Fill time (minutes)] = 1.54 gallons/minute

10.4 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1215	6.52	2470	10.1		Cloudy
2	1220	6.53	2510	10.1		Clear
3						
4						
5						
Sample	1225	6.54	2560	10.0		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Pow Date 061008

NUW 005574

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	A-11
DAY/DATE	061008 Tue
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	2

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air rain

TOP OF CASING ELEVATIN (feet NGVD)

WELL TYPE Onsite Offsite

TOTAL WELL DEPTH (feet) (a) 143

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD)

DEPTH TO WATER (feet): (b) 138.81

WATER COLUMN HEIGHT (feet) = (a) 143 - (b) 138.81 = (h) 4.19

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = .68

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 2.06

PUMPING RATE 301.15 Hz 3.6A

[Volume of Container (gallons)] 4 / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1130	6.37	1303	9.3		muddy
2						
3						
4						
5						
Sample	1130	6.37	1303	9.3		muddy

SAMPLE DESCRIPTION:

NOTES: Pump set at 140
Wasn't able to fill bucket/sample

Signature of Sampling Personnel: [signature]

Date 061008

NUW 005575

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Rain		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-7

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): ~~4~~ 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b) 97.72

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 97.72 = (h) 22.28

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.65

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 10.95

PUMPING RATE 306.07 Hz 3.6A

[Volume of Container (gallons)] 4 / 2.17 [Fill time (minutes)] = 1.84 gallons/minute

6 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1045	6.53	3440	12.7		Cloudy
2	1050	6.53	3420	13.6		Cloudy
3						
4						
5						
Sample	1055	6.51	3430	13.6		cloudy

SAMPLE DESCRIPTION:

NOTES: Pump set at 110

Signature of Sampling Personnel: [signature] Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Rain		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-4

DAY/DATE: 061008 tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 115

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 45.21

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 45.21 = (h) 69.79

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 11.48

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 34.35

PUMPING RATE 329.45 Hz 4.2 A

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1005	6.48	1665	7.6		clear
2	1010	6.44	2380	8.0		clear
3	1015	6.45	2420	8.0		clear
4	1020	6.45	2440	8.0		clear
5						
Sample	1025	6.51	2420	8.0		clear

17.78 min

SAMPLE DESCRIPTION:

NOTES: Pump set at 60

Signature of Sampling Personnel: [signature] Date 061008

NUW 005577

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Rain		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW5

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0930	6.94	809	15.1		CLEAR
2	0933	6.98	840	10.6		CLEAR
3	0936	6.97	862	10.0		CLEAR
4						
5						
Sample	0940	6.96	864	10.0		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Raining		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-2

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 30

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 10.86

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 10.86 = (h) 19.14

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.14

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 9.42

PUMPING RATE 336.42 Hz 4.5 Am

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.67 gallons/minute

3.5 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0905	7.35	700	10.7		Clear
2	0910	7.39	701	10.7		Clear
3						
4						
5						
Sample	0915					

SAMPLE DESCRIPTION:

NOTES: Pump set at 20

Signature of Sampling Personnel: Taylor Potts

Date 061008

NUW 005579

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Rain		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A - 2A

DAY/DATE: 061008 Tue

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 168

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 11.10

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 11.10 = (h) 156.9

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.7

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 77.1

PUMPING RATE 338.74 Hz 4.4A

[Volume of Container (gallons)] 4 / 1.67 [Fill time (minutes)] = 2.4 gallons/minute

32 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0810	7.68	702	8.2		clear
2	0820	7.62	705	8.8		clear
3	0825	7.61	706	8.8		clear
4	0830	7.60	707	8.8		clear
5	0840	7.59	705	8.8		clear
Sample	0845	7.59	704	8.8		clear

SAMPLE DESCRIPTION:

Pump set at 30 ft water in ditch

NOTES:

Signature of Sampling Personnel: Taylor Potter Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-10

DAY/DATE: 061008 TUE

PERSONNEL: RP TP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air RAIN

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0745	8.04	920	7.9		RUSTY
2	0755	7.99	872	7.9		CLEAR
3						
4						
5						
Sample	0800	7.98	869	7.9		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP Date 061008

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Snowy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWB

DAY/DATE: 061108

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD): _____

WELL TYPE: (Onsite) Offsite

TOTAL WELL DEPTH (feet) (a): 120

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD): _____

DEPTH TO WATER (feet): (b) 61.17

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 61.17 = (h) 58.83

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.65

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 28.95

PUMPING RATE 212.86Hz 3.0A

[Volume of Container (gallons)] 4 / 1.58 [Fill time (minutes)] = 2.5 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1335	4.97	2280	11.7		cloudy
2	1340	4.91	2250	12.4		clear
3	1345	4.90	2260	12.3		clear
4						
5						
Sample	1350	4.90	2240	12.3		clear

12 min

SAMPLE DESCRIPTION:

NOTES: Pump set at 80

Signature of Sampling Personnel: [signature] Date 061108

NUW 005582

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NWG

DAY/DATE: 061108

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): -

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 53'

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1400	6.45	1426	9.6		clear
2	1405	6.48	1405	9.8		clear
3						
4						
5						
Sample	1410	6.48	1405	9.8		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 061108

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Snowy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-12

DAY/DATE: 061108

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 116

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 108.79

WATER COLUMN HEIGHT (feet) = (a) 116 - (b) 108.79 = (h) 7.21

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 1.18

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 3.54

PUMPING RATE: 275.12 Hz 3.9A

[Volume of Container (gallons)] 4 / 5 [Fill time (minutes)] = 0.8 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1230	6.94	905	6.3		muddy
2	1235	7.50	933	7.4		Muddy
3						
4						
5						
Sample	1240	7.50	933	7.4		Muddy

SAMPLE DESCRIPTION:

NOTES: Pump set at 115

Signature of Sampling Personnel: Tyler Pato

Date 061108

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Snowy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWA

DAY/DATE: 061108 WED

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 52.12

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 52.12 = (h) 67.88

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 11.13

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = ~~33.4~~ 33.4

PUMPING RATE 236.48 Hz 3.6 A

[Volume of Container (gallons)] 4 / 1.83 [Fill time (minutes)] = 2.19 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1150	6.08	2940	9.6		Clear
2	1155	6.05	2990	10.0		clear
3	1200	6.04	2990	10.1		clear
4						
5						
Sample	1205	6.02	3000	10.1		clear

15 min

SAMPLE DESCRIPTION:

NOTES: Pump set at 70

Signature of Sampling Personnel: Taylor Potts Date 061108

NUW 005585

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	snowy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-1

DAY/DATE: 061108 WED

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 67

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 33.29

WATER COLUMN HEIGHT (feet) = (a) 67 - (b) 33.29 = (h) 33.71

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5.53

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 16.6

PUMPING RATE 226.34 Hz 3.2A

[Volume of Container (gallons)] 4 / 4 [Fill time (minutes)] = 1 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1055	7.89	454	8.2		slightly cloudy
2	1100	7.81	441	10.7		cloudy
3	1105	7.81	440	10.1		slightly cloudy
4	1110	7.84	441	9.7		slightly cloudy
5						
Sample	1115	7.83	442	9.6		clear

17 min

SAMPLE DESCRIPTION:

NOTES: Pump set at 50

Signature of Sampling Personnel: Taylor Potts

Date 061108

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-5

DAY/DATE: 061108 WED

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite)

TOTAL WELL DEPTH (feet) (a): 213

(Monitor) Domestic Production

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 89.11

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 89.11 = (h) 123.89

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 20.32

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 61

PUMPING RATE 327.78 1/2 4.2A

[Volume of Container (gallons)] 4 / 2.7 [Fill time (minutes)] = 1.5 gallons/minute

40 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0920	7.23	1131	8.2		clear
2	0930	7.17	1203	10.0		clear
3	0940	7.18	1233	10.4		clear
4	0950	7.18	1236	10.1		clear
5						
Sample	1000	7.19	1219	10.8		clear

SAMPLE DESCRIPTION:

NOTES: Pump set at 110

Signature of Sampling Personnel: Taylor Pott Date 061108

NUW 005587

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-10

DAY/DATE: 061108 WED

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 199

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 137.68

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 137.68 = (h) 61.32

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2(h)$ = 10.06

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 30.18

PUMPING RATE 302.0 Hz 3.9A

[Volume of Container (gallons)] 4 / 5 [Fill time (minutes)] = 0.8 gallons/minute

37 Min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0805	7.65	880	9.3		Cloudy
2	0815	7.40	886	10.8		cloudy
3	0825	7.32	890	10.7		Cloudy
4	0835	7.32	896	10.8		Clear
5						
Sample	0845	7.32	894	10.8		clear

SAMPLE DESCRIPTION:

NOTES: Pump set at 150

Signature of Sampling Personnel: Tyler Potts

Date 061108

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: EQ BLANK

DAY/DATE:

PERSONNEL:

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	1055	7.2	2.0	4.1		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 061208

NUW 005589

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	LOWRY
DAY/DATE	061208 Thurs
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

TOP OF CASING ELEVATIN (feet NGVD)

WELL TYPE Onsite Offsite

TOTAL WELL DEPTH (feet) (a)

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD)

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 1 [Fill time (minutes)] = 4 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1115	7.84	599	8.3		Rusty
2	1120	7.81	596	8.4		clear
3	1125	7.81	595	8.5		Clear
4						
5						
Sample	1130	7.80	595	8.5		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 061208

NUW 005590

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Torgesen Barn Well

DAY/DATE: 061208 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Hose Bib flow > 25gpm

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1055	7.61	1008	7.3		clear
2	1100	7.60	1008	7.3		clear
3	1105	7.58	995	7.3		clear
4						
5						
Sample	1110	7.58	1010	7.3		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Peter

Date 061208

NUW 005591

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW-8

DAY/DATE: 061208 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite) Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 18.4

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1035	7.80	510			CLEAR
2	1040	7.92	460			CLEAR
3	1045	8.00	460			CLEAR
4						
5						
Sample	1050	8.03	453			CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 061208

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Dup (NW-7)

DAY/DATE: 061208 THURS

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 19.6

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	0942	7.79	712	8.8		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: RP

Date 061208

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW7

DAY/DATE: 061208 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 19.6

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0925	7.70	713	8.8		clear
2	0930	7.76	711	8.8		CLEAR
3	0935	7.77	710	8.8		CLEAR
4						
5						
Sample	0940	7.78	710	8.8		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Pitt

Date 06 12 08

NUW 005594

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS -8

DAY/DATE: 061208 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 58.60

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 1.1 [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0845	6.65	1247	9.0		clear
2	0850	6.62	1251	9.1		clear
3	0855	6.58	1261	9.1		clear
4	0900	6.58	1266	9.1		clear
5						
Sample	0905	6.57	1269	9.1		clear

SAMPLE DESCRIPTION:

NOTES: Pump set at 75

Signature of Sampling Personnel: Taylor Potts

Date 061208

NUW 005595

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	JRS.10
DAY/DATE	061208 Thurs.
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air

TOP OF CASING ELEVATIN (feet NGVD)

WELL TYPE Onsite Offsite

TOTAL WELL DEPTH (feet) (a)

Monitor Domestic Production

GROUND WATER ELEVATION (feet NGVD)

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0820	6.92	1479	9.6		clear
2	0825	6.94	1493	9.6		clear
3	0830	6.92	1504	9.6		Clear
4						
5						
Sample	0835	6.86	1507	9.6		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 061208

NUW 005596

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS-11

DAY/DATE: 061208 Thurs.

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] 4 / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0800	8.17	524	8.7		clear
2	0805	8.03	519	8.6		clear
3	0810	7.97	520	8.6		clear
4						
5						
Sample	0815	7.85	519	8.6		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 061208

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Arr Maz

DAY/DATE: 061208 THURS

PERSONNEL: TP RP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] 4 / 0.33 [Fill time (minutes)] = 12.1 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0730	7.15	945	16.8		CLEAR
2	0735	7.12	957	16.8		CLEAR
3	0740	7.09	950	16.8		CLEAR
4						
5						
Sample	0745	7.09	948	16.8		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: TP Date 061208

APPENDIX B

NUW 005599

Appendix B Page 1 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through June 2008

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			11/24/1999	10/25/2000	4/19/2001	7/31/2001	11/11/2001	6/10/2002	10/28/2002	5/6/2003	10/28/03
A-1	6,221.71	6,155.01	6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46
A-2	6,156.75	6,126.55	6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09	
A-3	6,149.77	6,041.77	6,068.35	6,050.29	6,053.88	6,042.97		6,054.70			
A-4	6,149.83	6,034.43	6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68
A-5	6,150.42	5,937.42	6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31
A-6	6,150.18	6,031.08	6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56	
A-7	6,150.47	6,029.27	6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56
A-8	6,148.99	6,021.89	6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65		
A-9/A-9A	6,146.25	5,995.25	6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09
A-10	6,124.25	5,925.15							5,985.16	5,986.58	5983.11

NUW 005600

Appendix B Page 2 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through June 2008

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			5/4/2004	10/25/2004	6/29/2005	10/29/2005	Jun-06	Dec-06	May-07	Oct-07	Jun-08
A-1	6,221.71	6,155.01	6,188.15	6,186.81	6,189.70	6,190.70	6,189.00	6,190.70	6,187.80	6,187.70	6,188.40
A-2	6,156.75	6,126.55		6,134.70	6,127.00	6,146.00	6,144.90	6,144.80	6,139.60	6,146.80	6,145.90
A-3	6,149.77	6,041.77					6,060.40	6,062.80	6,056.00	dry	6,054.40
A-4	6,149.83	6,034.43	6,063.33	6,057.48	6,062.40	6,062.80	6,111.50	6,111.50	6,102.40	6,080.80	6,104.60
A-5	6,150.42	5,937.42	6,033.40	6,030.12	6,032.40	6,029.20	6,067.00	6,066.90	6,064.90	6,046.00	6,061.30
A-6	6,150.18	6,031.08			6,033.40	6,031.90	6,044.20	6,054.20	6,054.10	6,038.20	6,046.40
A-7	6,150.47	6,029.27	6,029.60				6,063.80	6,058.50	6,059.00	6,038.50	6,052.80
A-8	6,148.99	6,021.89					6,037.00	6,035.00	6,041.60	6,021.50	6,026.60
A-9/A-9A	6,146.25	5,995.25	6,011.37	6,009.79	6,011.40	6,010.40	6,039.70	6,036.30	6,043.30	6,018.30	6,027.90
A-10	6,124.25	5,925.15	5,985.20	5,982.45	5,988.30	5,983.30	5,992.00	5,988.30	5,991.20	5,986.30	5,986.60
MW05-1							6,057.60	6,049.20	6,054.20	6,045.00	6,046.40
MW05-2							6,144.30	6,147.00	6,145.60	6,145.40	6,145.10
MW05-3							6,104.00	6,104.50	6,092.70	6,072.00	6,096.00
MW05-4							6,002.00	6,003.00	6,005.00	5,991.00	5,994.10
MW05-5							5,999.80	6,002.20	6,002.80	5,988.00	5,993.30
MWA						6,087.70	6,103.80	6,101.80	6,103.30	6,099.80	6,103.70
MWB						6,089.40	6,103.20	6,101.70	6,102.10	6,100.30	6,101.30
A-11									6,025.30	dry	6,008.20
A-12									6,041.30	6,015.00	6,016.30

APPENDIX C

Dates submitted 6/
Dates Reported 6/

106082897	106082891	106082898	106082853	106082893	106082892	106082875	106082856	106082896	106082894	106082876
JRS-11	TORGESEN	ARRMAZ	NW-5	NW-7	NW-8	NW-9	NW-10	JRS-8	DUPLICATE	A-1
6/12/08 8:15	6/12/08 11:10	6/12/08 7:45	6/10/08 9:40	6/12/08 9:40	6/12/08 10:50	6/11/08 14:10	6/10/05 8:00	6/12/08 9:05	6/12/08 9:42	6/12/08 11:15
250	430	780	430	270	210	110	360	310	280	220
<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
250	430	780	430	270	210	110	360	310	280	220
<0.05	< 0.05	< 0.05	0.11	< 0.05	< 0.05	6.99	0.21	1.13	< 0.05	< 0.05
10	57	5	7	19	11	85	7	53	20	17
1.28	33.67	< 1.00	1.27	3.61	3.25	20.43	< 1.00	17.27	3.62	< 1.00
0.03	0.08	0.04	1.48	0.08	0.05	32.83	0.03	1.02	0.08	0.04
589	1173	1181	1003	807	511	1560	902	1464	802	486
53	74	33	162	170	31	598	168	481	170	4
390	806	820	686	654	378	1640	666	1276	638	284
<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	1.1	< 0.5	< 0.5
0.07	0.12	0.05	1.55	0.11	0.13	49.29	0.14	1.12	0.11	0.87
<2	2	2	4	2	< 2	181	6	3	2	23
7.4	7.6	7.0	7.7	7.9	8.1	6.4	7.6	6.8	7.9	7.8
0.02	0.02	0.02	0.03	0.01	0.02	0.77	0.02	0.02	0.02	0.06
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	0.009	< 0.001	0.002	0.001	< 0.001
0.032	0.070	0.097	0.038	0.114	0.138	0.006	0.101	0.041	0.117	0.090
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.033	< 0.001	< 0.001	< 0.001	< 0.001
87.72	140.80	194.80	125.20	107.20	61.07	156.00	115.50	198.30	106.90	60.75
<0.001	< 0.001	< 0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001	0.002	0.005
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.022	< 0.001	< 0.001	< 0.001	< 0.001
0.003	0.003	0.009	0.011	< 0.001	< 0.001	0.005	< 0.001	0.003	< 0.001	< 0.001
0.04	0.03	0.03	0.09	0.02	0.06	0.05	0.38	0.04	0.02	0.06
0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
15.51	64.50	61.78	53.59	32.99	18.50	85.22	56.11	56.06	32.84	18.52
0.002	0.002	< 0.001	0.070	< 0.001	0.002	1.583	0.523	0.360	0.001	0.007
<0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
0.003	0.002	0.002	0.004	0.002	0.002	0.175	0.004	0.014	0.002	0.004
1.11	3.81	4.70	3.54	4.60	4.25	7.65	2.71	7.19	4.59	1.29
0.032	0.002	< 0.001	0.006	0.018	0.003	0.010	< 0.001	0.009	0.018	< 0.001
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
7.01	16.01	6.03	18.17	11.52	8.30	80.12	10.88	70.87	11.50	5.87
<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<0.001	0.003	0.001	0.002	0.003	0.003	0.004	< 0.001	0.003	0.003	0.002
0.193	0.043	0.222	0.026	0.005	0.027	0.172	0.012	0.034	0.027	0.025
<0.5	< 0.5	0.5	0.6	< 0.5	< 0.5	22.6	< 0.5	0.6	< 0.5	< 0.5
1.3	33.7	< 0.5	1.3	3.6	3.3	28.9	< 0.5	18.4	3.6	< 0.5
2.4	1.2	1.5	0.58	3.4	1.7	0.14	1.25	1.7	4.3	0.67
1.4	4.1	5.1	1.6	6.8	5.5	6.5	1.39	13.1	7.4	2.1

NUW 0059
nomial for sample type and methodology
es or implied, including warranty of
work performed must be governed

082877	106082847	106082878	106082849	106082851	106082879	106082899	106082881	106082882	106082806	106082807	106082808	106082809	10608
A-5	A-6	A-8	A-9A	A-7	A-10	EQ BLANK	MW A	MW B	MW 05-01	MW 05-02	MW 05-03	MW 05-04	MW 0
/08 9:40	6/10/08 14:00	6/11/08 10:20	6/10/08 12:25	6/10/08 10:55	6/11/08 8:45	6/12/08 10:55	6/11/08 0:05	6/11/08 13:50	6/9/08 17:10	6/10/08 19:00	6/10/08 18:20	6/9/08 16:10	6/9/08
580	1240	1210	1120	1280	450	10	70	< 5	370	400	460	370	44
< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
580	1240	1210	1120	1280	450	10	70	< 5	370	400	460	370	44
: 0.05	19.89	48.74	3.02	73.85	< 0.05	< 0.05	103.95	11.85	< 0.05	< 0.05	< 0.05	< 0.05	< 0.
25	46	57	50	55	21	< 1	374	47	5	4	5	13	5
: 1.00	17.39	17.73	9.38	5.93	7.10	< 1.00	138.34	2.51	1.17	< 1.00	< 1.00	2.58	1.6
0.07	38.38	32.85	4.22	94.11	0.02	< 0.01	21.62	202.20	0.03	0.02	0.04	0.06	0.7
1365	3220	3260	2750	3780	1006	2.9	2820	2210	786	752	864	799	87
268	998	850	868	1201	99	< 1	736	1558	23	40	75	29	56
1152	2796	2876	2438	2986	730	4	2574	2992	462	466	580	498	54
< 0.5	22.8	59.7	5.0	78.3	< 0.5	< 0.5	134.3	12.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0
0.14	42.24	55.95	4.25	98.78	0.21	0.01	21.04	205.35	0.08	0.04	0.04	0.08	0.7
4	193	2302	13	15	7	< 2	22	34	< 2	4	< 2	3	2
7.4	7.3	7.3	7.2	7.2	7.7	5.2	5.7	4.2	7.6	7.7	7.8	7.8	8.
0.02	0.06	0.02	0.04	0.04	0.04	0.01	1.43	55.12	0.02	0.02	0.03	0.03	0.0
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.004	0.001	< 0.001	< 0.
).002	0.015	0.014	0.003	0.028	< 0.001	< 0.001	0.009	0.042	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
).069	0.193	0.040	0.127	0.023	0.066	0.019	0.019	0.014	0.095	0.078	0.088	0.049	0.0
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.017	0.171	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
91.40	341.20	196.00	356.80	158.00	127.90	0.09	219.10	175.20	86.97	97.74	111.80	93.94	108.
).001	0.005	< 0.001	0.001	< 0.001	0.002	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.
).001	0.022	0.001	< 0.001	0.006	< 0.001	< 0.001	0.044	0.137	< 0.001	< 0.001	< 0.001	0.001	0.0
0.001	0.004	0.002	0.003	0.008	< 0.001	0.001	0.014	0.064	0.003	0.001	0.001	0.002	0.0
0.04	0.11	0.04	0.07	0.07	0.05	0.03	0.04	1.97	0.04	0.13	0.07	0.05	0.0
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
32.94	169.20	158.30	167.90	165.90	50.34	0.03	174.10	239.40	46.43	46.96	61.50	47.45	51.
).003	0.131	0.600	0.040	1.240	0.005	< 0.001	9.43	11.49	< 0.001	0.099	0.049	0.002	< 0.
).0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0
).005	0.091	0.096	0.007	0.027	0.005	0.003	0.236	1.270	0.004	0.004	0.004	0.006	0.0
0.92	23.22	46.32	12.79	77.95	4.29	0.04	18.71	13.06	2.66	1.97	3.31	2.76	3.2
0.001	0.014	0.009	0.002	0.016	0.002	< 0.001	0.003	0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.0
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
20.07	331.60	539.20	214.10	582.20	15.22	0.10	93.54	119.00	7.25	4.75	6.88	6.64	12.
0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.
).001	0.008	0.013	0.004	0.006	0.004	< 0.001	0.008	0.054	0.002	< 0.001	< 0.001	0.003	0.0
).040	0.029	0.003	0.019	0.028	0.017	0.012	0.079	2.149	0.024	0.024	0.013	0.023	0.0
< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.1	120.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.
< 0.5	40.2	77.4	14.4	84.2	7.1	< 0.5	272.6	14.8	1.2	< 0.5	< 0.5	2.6	1.
5.2	0.34	--	3	0.11	1.5	0.0	0	4.2	0.45	0.37	0.76	1.35	0.
1.3	31.2	--	12.2	83.7	7.2	0.0	22.3	15.3	4.6	2.7	2.8	2.8	4.

APPENDIX D

Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLR

Data Package Contains 61 *Pages*

Report No.: 39463

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38070		2806	J8F230115-1	KQENR1AA	9KQENR10	8178522
		2806	J8F230115-1	KQENR1AC	9KQENR10	8178524
		2807	J8F230115-2	KQENW1AA	9KQENW10	8178522
		2807	J8F230115-2	KQENW2AC	9KQENW20	8178524
		2808	J8F230115-3	KQEN01AA	9KQEN010	8178522
		2808	J8F230115-3	KQEN02AC	9KQEN020	8178524
		2809	J8F230115-4	KQEN11AA	9KQEN110	8178522
		2809	J8F230115-4	KQEN12AC	9KQEN120	8178524
		2810	J8F230115-5	KQEN31AA	9KQEN310	8178522
		2810	J8F230115-5	KQEN32AC	9KQEN320	8178524
		2847	J8F230115-6	KQEN41AA	9KQEN410	8178522
		2847	J8F230115-6	KQEN41AC	9KQEN410	8178524
		2848	J8F230115-7	KQEN61AA	9KQEN610	8178522
		2848	J8F230115-7	KQEN61AC	9KQEN610	8178524
		2849	J8F230115-8	KQEPD1AA	9KQEPD10	8178522
		2849	J8F230115-8	KQEPD1AC	9KQEPD10	8178524
		2850	J8F230115-9	KQEPF1AA	9KQEPF10	8178522
		2850	J8F230115-9	KQEPF1AC	9KQEPF10	8178524
		2851	J8F230115-10	KQEPH1AA	9KQEPH10	8178522
		2851	J8F230115-10	KQEPH1AC	9KQEPH10	8178524
		2852	J8F230115-11	KQEPJ1AA	9KQEPJ10	8178522
		2852	J8F230115-11	KQEPJ1AC	9KQEPJ10	8178524
		2853	J8F230115-12	KQEPM1AA	9KQEPM10	8178522
		2853	J8F230115-12	KQEPM2AC	9KQEPM20	8178524
		2854	J8F230115-13	KQEPN1AA	9KQEPN10	8178522
		2854	J8F230115-13	KQEPN1AC	9KQEPN10	8178524

Report No.: 39463

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38070		2855	J8F230115-14	KQEPT1AA	9KQEPT10	8178522
		2855	J8F230115-14	KQEPT2AC	9KQEPT20	8178524
		2856	J8F230115-15	KQEQM1AA	9KQEQM10	8178522
		2856	J8F230115-15	KQEQM2AC	9KQEQM20	8178524
		2875	J8F230115-16	KQEQR1AA	9KQEQR10	8178522
		2875	J8F230115-16	KQEQR1AC	9KQEQR10	8178524
		2876	J8F230115-17	KQEQ21AC	9KQEQ210	8178525
		2877	J8F230115-18	KQEQ41AC	9KQEQ410	8178525
		2879	J8F230115-19	KQEQ61AC	9KQEQ610	8178525
		2880	J8F230115-20	KQERA1AC	9KQERA10	8178525
		2881	J8F230115-21	KQERF1AC	9KQERF10	8178525
		2882	J8F230115-22	KQERH1AC	9KQERH10	8178525
		2890	J8F230115-23	KQERM1AC	9KQERM10	8178525
		2891	J8F230115-24	KQERP2AC	9KQERP20	8178525
		2892	J8F230115-25	KQERQ1AC	9KQERQ10	8178525
		2893	J8F230115-26	KQERW1AC	9KQERW10	8178525
		2894	J8F230115-27	KQERX1AC	9KQERX10	8178525
		2895	J8F230115-28	KQER21AC	9KQER210	8178525
		2896	J8F230115-29	KQER31AC	9KQER310	8178525
		2897	J8F230115-30	KQER41AC	9KQER410	8178525
		2898	J8F230115-31	KQER51AC	9KQER510	8178525
		2899	J8F230115-32	KQER61AC	9KQER610	8178525

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

July 10, 2008

Engineers, Inc.
301 W. College Avenue
Suite # 1
Silver City, NM 88061

Attention: Wayne Ericson

Date Received in Lab	:	June 19, 2008
Sample Type	:	Thirty-Three (33) Waters
SDG Number	:	38070
Project Name/Number	:	Engineers Inc.
Requisition Number	:	

CASE NARRATIVE

I. Introduction

On June 19, 2008, thirty-three water samples were received at the TestAmerica-Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TAL identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J8F230115.

II. Sample Receipt

The sample was received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gross Alpha by method RICH-RC-5014 (EPA 900.0)
Gross Beta by method RICH-RC-5014 (EPA 900.0)

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:

The samples had high yields and were then recounted for 200 minutes and now meet the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

Gross Beta Analysis:

The samples minus the QC were right at or slightly exceeded the CRDL and were re-counted for 200 minutes and now meet the CRDL. Except as noted, the LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Don Petty
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 12-Aug-08

TestAmerica STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 39668

SDG No: 38070

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8178522 RICHRC5014									
	2806								
	KQENR1AA	ALPHA	4.51E-01 +- 6.44E-01	U	pCi/L	100%	1.24E+00	3.00E+00	
	2806 DUP								
	KQENR1AD	ALPHA	8.89E-01 +- 9.47E-01	U	pCi/L	100%	1.68E+00	3.00E+00	0.8
	2807								
	KQENW1AA	ALPHA	3.73E-01 +- 1.04E+00	U	pCi/L	100%	2.34E+00	3.00E+00	
	2808								
	KQEN01AA	ALPHA	7.58E-01 +- 9.15E-01	U	pCi/L	100%	1.63E+00	3.00E+00	
	2809								
	KQEN11AA	ALPHA	1.35E+00 +- 1.12E+00	U	pCi/L	100%	1.76E+00	3.00E+00	
	2810								
	KQEN31AA	ALPHA	-4.91E-01 +- 9.28E-01	U	pCi/L	100%	2.69E+00	3.00E+00	
	2847								
	KQEN41AA	ALPHA	3.67E-01 +- 2.11E+00	U	pCi/L	100%	5.06E+00	3.00E+00	
	2848								
	KQEN61AA	ALPHA	2.23E+00 +- 1.53E+00	J	pCi/L	100%	2.05E+00	3.00E+00	
	2849								
	KQEPD1AA	ALPHA	3.03E+00 +- 3.17E+00	U	pCi/L	100%	5.48E+00	3.00E+00	
	2850								
	KQEPF1AA	ALPHA	9.04E-01 +- 1.06E+00	U	pCi/L	100%	1.88E+00	3.00E+00	
	2851								
	KQEPH1AA	ALPHA	1.14E-01 +- 2.99E+00	U	pCi/L	100%	7.34E+00	3.00E+00	
	2852								
	KQEPJ1AA	ALPHA	3.10E+00 +- 2.45E+00	U	pCi/L	100%	3.20E+00	3.00E+00	
	2853								
	KQEPM1AA	ALPHA	5.79E-01 +- 1.33E+00	U	pCi/L	100%	2.96E+00	3.00E+00	
	2854								
	KQEPN1AA	ALPHA	6.34E-01 +- 1.06E+00	U	pCi/L	100%	2.22E+00	3.00E+00	
	2855								
	KQEPT1AA	ALPHA	5.38E-01 +- 7.13E-01	U	pCi/L	100%	1.34E+00	3.00E+00	
	2856								
	KQEQM1AA	ALPHA	1.25E+00 +- 1.19E+00	U	pCi/L	100%	1.88E+00	3.00E+00	
	2875								
	KQEQR1AA	ALPHA	1.44E-01 +- 2.03E+00	U	pCi/L	100%	4.58E+00	3.00E+00	
8178523 RICHRC5014									
	2876								
	KQEQ21AA	ALPHA	6.68E-01 +- 7.30E-01	U	pCi/L	100%	1.09E+00	3.00E+00	
	2876 DUP								
	KQEQ21AD	ALPHA	1.13E+00 +- 9.59E-01	U	pCi/L	100%	1.24E+00	3.00E+00	0.8

TestAmerica

rptSTLRchSaSummary2 V5.1.7 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

TestAmerica STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 12-Aug-08

Report No. : 39668

SDG No: 38070

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8178523 RICHRC5014									
2877	KQEQ41AA	ALPHA	5.15E+00 +- 2.18E+00		pCi/L	100%	1.50E+00	3.00E+00	
2879	KQEQ61AA	ALPHA	1.52E+00 +- 1.55E+00	U	pCi/L	100%	2.78E+00	3.00E+00	
2880	KQERA2AA	ALPHA	1.50E+00 +- 1.01E+00	J	pCi/L	100%	1.44E+00	3.00E+00	
2881	KQERF1AA	ALPHA	-9.88E-01 +- 1.41E+00	U	pCi/L	100%	4.55E+00	3.00E+00	
2890	KQERM1AA	ALPHA	3.07E+00 +- 1.58E+00		pCi/L	100%	1.84E+00	3.00E+00	
2891	KQERP2AA	ALPHA	1.16E+00 +- 1.45E+00	U	pCi/L	100%	2.72E+00	3.00E+00	
2892	KQERQ1AA	ALPHA	1.69E+00 +- 1.20E+00	J	pCi/L	100%	1.65E+00	3.00E+00	
2893	KQERW1AA	ALPHA	3.38E+00 +- 1.81E+00		pCi/L	100%	1.85E+00	3.00E+00	
2894	KQERX1AA	ALPHA	4.31E+00 +- 2.07E+00		pCi/L	100%	1.87E+00	3.00E+00	
2895	KQER21AA	ALPHA	-2.15E-01 +- 1.83E+00	U	pCi/L	100%	4.44E+00	3.00E+00	
2896	KQER31AA	ALPHA	1.76E+00 +- 2.52E+00	U	pCi/L	100%	4.85E+00	3.00E+00	
2897	KQER41AA	ALPHA	2.44E+00 +- 1.31E+00	J	pCi/L	100%	1.60E+00	3.00E+00	
2898	KQER51AA	ALPHA	1.51E+00 +- 1.40E+00	U	pCi/L	100%	2.20E+00	3.00E+00	
2899	KQER61AA	ALPHA	-1.70E-01 +- 2.18E-01	U	pCi/L	100%	8.75E-01	3.00E+00	
8178524 RICHRC5014									
2806	KQENR1AC	BETA	4.63E+00 +- 2.48E+00		pCi/L	100%	4.44E+00	4.00E+00	
2807	KQENW2AC	BETA	2.74E+00 +- 1.82E+00	U	pCi/L	100%	3.36E+00	4.00E+00	
2807 DUP	KQENW2AD	BETA	2.66E+00 +- 1.73E+00	U	pCi/L	100%	3.17E+00	4.00E+00	0.1
2808	KQEN02AC	BETA	2.83E+00 +- 2.07E+00	U	pCi/L	100%	3.85E+00	4.00E+00	
2809	KQEN12AC	BETA	2.77E+00 +- 1.70E+00	U	pCi/L	100%	3.09E+00	4.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.1.7
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Date: 12-Aug-08

Sample Results Summary

TestAmerica STLR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 39668

SDG No: 38070

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8178524 RICHRC5014									
2810	KQEN32AC	BETA	4.37E+00 +- 1.68E+00		pCi/L	100%	2.75E+00	4.00E+00	
2847	KQEN41AC	BETA	3.12E+01 +- 1.01E+01		pCi/L	100%	1.58E+01	4.00E+00	
2848	KQEN61AC	BETA	8.44E+00 +- 3.00E+00		pCi/L	100%	4.81E+00	4.00E+00	
2849	KQEPD1AC	BETA	1.22E+01 +- 7.26E+00	U	pCi/L	100%	1.31E+01	4.00E+00	
2850	KQEPF1AC	BETA	1.72E+01 +- 4.51E+00		pCi/L	100%	6.25E+00	4.00E+00	
2851	KQEPH1AC	BETA	8.37E+01 +- 1.45E+01		pCi/L	100%	1.26E+01	4.00E+00	
2852	KQEPJ1AC	BETA	5.57E+00 +- 5.77E+00	U	pCi/L	100%	1.11E+01	4.00E+00	
2853	KQEPM2AC	BETA	1.62E+00 +- 1.88E+00	U	pCi/L	100%	3.63E+00	4.00E+00	
2854	KQEPN1AC	BETA	1.95E+00 +- 1.87E+00	U	pCi/L	100%	3.79E+00	4.00E+00	
2855	KQEPT2AC	BETA	4.27E+00 +- 1.67E+00		pCi/L	100%	2.77E+00	4.00E+00	
2856	KQEQM2AC	BETA	1.39E+00 +- 1.79E+00	U	pCi/L	100%	3.48E+00	4.00E+00	
2875	KQEQR1AC	BETA	6.52E+00 +- 3.13E+00		pCi/L	100%	5.53E+00	4.00E+00	
8178525 RICHRC5014									
2876	KQEQ21AC	BETA	2.08E+00 +- 1.62E+00	U	pCi/L	100%	3.23E+00	4.00E+00	
2877	KQEQ41AC	BETA	1.43E+01 +- 3.67E+00		pCi/L	100%	5.25E+00	4.00E+00	
2877 DUP	KQEQ41AD	BETA	1.27E+01 +- 3.48E+00		pCi/L	100%	5.09E+00	4.00E+00	0.6
2879	KQEQ61AC	BETA	7.20E+00 +- 2.68E+00		pCi/L	100%	4.17E+00	4.00E+00	
2880	KQERA1AC	BETA	6.77E+00 +- 2.66E+00		pCi/L	100%	4.44E+00	4.00E+00	
2881	KQERF1AC	BETA	2.23E+01 +- 5.85E+00		pCi/L	100%	8.14E+00	4.00E+00	
2882	KQERH1AC	BETA	1.53E+01 +- 6.36E+00		pCi/L	100%	1.07E+01	4.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.1.7
A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

TestAmerica STLR

Ordered by Method, Batch No., Client Sample ID.

Date: 12-Aug-08

Report No. : 39668

SDG No: 38070

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8178525	RICHRC5014								
2890									
	KQERM1AC	BETA	2.92E+00 +- 1.64E+00	U	pCi/L	100%	3.05E+00	4.00E+00	
2891									
	KQERP2AC	BETA	4.11E+00 +- 2.15E+00		pCi/L	100%	3.79E+00	4.00E+00	
2892									
	KQERQ1AC	BETA	5.49E+00 +- 2.95E+00		pCi/L	100%	5.31E+00	4.00E+00	
2893									
	KQERW1AC	BETA	6.79E+00 +- 2.21E+00		pCi/L	100%	3.47E+00	4.00E+00	
2894									
	KQERX1AC	BETA	7.41E+00 +- 2.18E+00		pCi/L	100%	3.16E+00	4.00E+00	
2895									
	KQER21AC	BETA	1.46E+01 +- 5.24E+00		pCi/L	100%	7.78E+00	4.00E+00	
2896									
	KQER31AC	BETA	1.31E+01 +- 3.48E+00		pCi/L	100%	4.92E+00	4.00E+00	
2897									
	KQER41AC	BETA	1.36E+00 +- 1.45E+00	U	pCi/L	100%	2.98E+00	4.00E+00	
2898									
	KQER51AC	BETA	8.13E+00 +- 3.53E+00		pCi/L	100%	6.02E+00	4.00E+00	
2899									
	KQER61AC	BETA	-3.91E-01 +- 9.54E-01	U	pCi/L	100%	2.21E+00	4.00E+00	
8190288	RICHRC5014								
2882									
	KQERH2AA	ALPHA	4.15E+00 +- 5.24E+00	U	pCi/L	100%	9.76E+00	3.00E+00	

No. of Results: 68

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

TestAmerica STLR

Ordered by Method, Batch No, QC Type,.

Date: 12-Aug-08

Report No. : 39668

SDG No.: 38070

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
RICHRC5014								
8178522 BLANK QC, KQNWW1A	ALPHA	-2.35E-01 +- 2.40E-01	U	pCi/L	100%			6.35E-01
8178522 LCS, KQNWW1A	ALPHA	3.68E+01 +- 7.83E+00		pCi/L	100%	90%	-0.1	3.60E-01
RICHRC5014								
8178523 BLANK QC, KQNWX1AA	ALPHA	-1.04E-02 +- 1.25E-01	U	pCi/L	100%			3.24E-01
8178523 LCS, KQNWX1AC	ALPHA	3.18E+01 +- 6.72E+00		pCi/L	100%	78%	-0.2	2.81E-01
RICHRC5014								
8178524 BLANK QC, KQNW01AA	BETA	-4.18E-01 +- 9.14E-01	U	pCi/L	100%			1.90E+00
8178524 LCS, KQNW01AC	BETA	3.94E+01 +- 6.61E+00		pCi/L	100%	97%	0.0	1.56E+00
RICHRC5014								
8178525 BLANK QC, KQNW11AA	BETA	-2.22E-01 +- 9.58E-01	U	pCi/L	100%			1.98E+00
8178525 LCS, KQNW11AC	BETA	4.08E+01 +- 5.97E+00		pCi/L	100%	100%	0.0	1.76E+00
RICHRC5014								
8190288 BLANK QC, KQ6191AA	ALPHA	1.71E-01 +- 2.73E-01	U	pCi/L	100%			5.34E-01
8190288 LCS, KQ6192AC	ALPHA	3.36E+01 +- 7.23E+00		pCi/L	100%	82%	-0.2	4.97E-01

No. of Results: 10

TestAmerica
rptSTLRchQcSummary V5.1.7 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

11 10A

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 5:10:00 PM
Lot-Sample No.:	J8F230115-1	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2806	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQENR1AA		Report DB ID:	9KQENR10				
ALPHA	**4.51E-01**	U	6.4E-01	6.4E-01	1.24E+00	pCi/L	100%	*0.36*	7/7/08 08:51 a		0.1514	GPC12A
						4.51E-01	3.00E+00	*(1.4)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQENR1AC		Report DB ID:	9KQENR10				
BETA	**4.63E+00**		2.4E+00	2.5E+00	4.44E+00	pCi/L	100%	*(1.)*	7/7/08 02:28 p		0.125	GPC28B
						2.10E+00	4.00E+00	*(3.7)*			L	

No. of Results: 2 Comments:

11

TestAmerica
RptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NDW 005617

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 7:00:00 PM
Lot-Sample No.:	J8F230115-2	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2807	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQENW1AA		Report DB ID:	9KQENW10				
ALPHA	**3.73E-01**	U	1.0E+00	1.0E+00	2.34E+00	pCi/L	100%	*0.16*	7/7/08 08:51 a		0.139	GPC12C
						9.91E-01	3.00E+00	*0.72*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQENW2AC		Report DB ID:	9KQENW20				
BETA	**2.74E+00**	U	1.8E+00	1.8E+00	3.36E+00	pCi/L	100%	*0.82*	7/8/08 03:08 p		0.13	GPC26A
						1.62E+00	4.00E+00	*(3.)*			L	

No. of Results: 2 Comments:

12

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 6:20:00 PM
Lot-Sample No.:	J8F230115-3	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2808	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEN01AA		Report DB ID: 9KQEN010					
ALPHA	**7.58E-01**	U	9.0E-01	9.1E-01	1.63E+00	pCi/L	100%	*0.46*	7/7/08 10:45 a		0.1085	GPC12A
						5.94E-01	3.00E+00	*(1.7)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEN02AC		Report DB ID: 9KQEN020					
BETA	**2.83E+00**	U	2.0E+00	2.1E+00	3.85E+00	pCi/L	100%	*0.73*	7/8/08 03:08 p		0.1064	GPC26C
						1.86E+00	4.00E+00	*(2.7)*			L	

No. of Results: 2 Comments:

13

TestAmerica
rptSTLRchSample
6.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NDW 005619

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 4:10:00 PM
Lot-Sample No.:	J8F230115-4	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2809	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEN11AA		Report DB ID: 9KQEN110						
ALPHA	**1.35E+00**	U	1.1E+00	1.1E+00	1.76E+00	pCi/L	100%	*0.77*	7/7/08 10:45 a		0.1316	GPC12B
						6.88E-01	3.00E+00	*(2.4)*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEN12AC		Report DB ID: 9KQEN120						
BETA	**2.77E+00**	U	1.7E+00	1.7E+00	3.09E+00	pCi/L	100%	*0.9*	7/8/08 03:08 p		0.125	GPC26D
						1.49E+00	4.00E+00	*(3.3)*			L	

No. of Results: 2 Comments:

14

TestAmerica
rptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 3:10:00 PM
Lot-Sample No.:	J8F230115-5	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2810	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEN31AA		Report DB ID: 9KQEN310						
ALPHA	**-4.91E-01**	U	9.2E-01	9.3E-01	2.69E+00	pCi/L	100%	*-0.18*	7/7/08 10:45 a		0.1162	GPC12C
						1.14E+00	3.00E+00	*-(1.1)*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEN32AC		Report DB ID: 9KQEN320						
BETA	**4.37E+00**		1.6E+00	1.7E+00	2.75E+00	pCi/L	100%	*(1.6)*	7/8/08 03:08 p		0.1409	GPC27A
						1.32E+00	4.00E+00	*(5.2)*			L	

No. of Results: 2 Comments:

15

TestAmerica
rptSTLRchSample
8.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NEW 005621

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/10/2008 2:00:00 PM
Lot-Sample No.:	J8F230115-6	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2847	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEN41AA		Report DB ID: 9KQEN410					
ALPHA	**3.67E-01**	U	2.1E+00	2.1E+00	5.06E+00	pCi/L	100%	*0.07*	7/7/08 09:41 a		0.0224	GPC10A
						1.91E+00	3.00E+00	*0.35*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEN41AC		Report DB ID: 9KQEN410					
BETA	**3.12E+01**		9.2E+00	1.0E+01	1.58E+01	pCi/L	100%	*(2.)*	7/7/08 03:19 p		0.0282	GPC26A
						7.65E+00	4.00E+00	*(6.2)*			L	

No. of Results: 2 Comments:

16

TestAmerica
rptSTLRchSample
V 1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

005622

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/10/2008 1:30:00 PM
Lot-Sample No.:	J8F230115-7	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2848	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEN61AA	Report DB ID:	9KQEN610					
ALPHA	**2.23E+00**	J	1.5E+00	1.5E+00	2.05E+00	pCi/L	100%	*(1.1)*	7/7/08 09:41 a		0.0539	GPC10B
						8.01E-01	3.00E+00	*(2.9)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEN61AC	Report DB ID:	9KQEN610					
BETA	**8.44E+00**		2.8E+00	3.0E+00	4.81E+00	pCi/L	100%	*(1.8)*	7/7/08 03:19 p		0.0877	GPC26B
						2.32E+00	4.00E+00	*(5.6)*			L	

No. of Results: 2 Comments:

17

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-8
Client Sample ID: 2849

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 12:25:00 PM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEPD1AA		Report DB ID: 9KQEPD10						
ALPHA	**3.03E+00**	U	3.1E+00	3.2E+00	5.48E+00	pCi/L	100%	*0.55*	7/7/08 09:41 a		0.0262	GPC10C
						2.24E+00	3.00E+00	*(1.9)*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEPD1AC		Report DB ID: 9KQEPD10						
BETA	**1.22E+01**	U	7.1E+00	7.3E+00	1.31E+01	pCi/L	100%	*0.93*	7/7/08 03:19 p		0.0301	GPC26C
						6.32E+00	4.00E+00	*(3.4)*			L	

No. of Results: 2 Comments:

18

TestAmerica
rptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 505624

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-9
Client Sample ID: 2850

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 11:30:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEPF1AA		Report DB ID: 9KQEPF10						
ALPHA	**9.04E-01**	U	1.0E+00	1.1E+00	1.88E+00	pCi/L	100%	*0.48*	7/7/08 09:41 a		0.0625	GPC10[
						7.43E-01	3.00E+00	*(1.7)*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEPF1AC		Report DB ID: 9KQEPF10						
BETA	**1.72E+01**		4.0E+00	4.5E+00	6.25E+00	pCi/L	100%	*(2.7)*	7/7/08 03:19 p		0.0609	GPC26[
						3.00E+00	4.00E+00	*(7.6)*			L	

No. of Results: 2 Comments:

19

TestAmerica
rptSTLRchSample
v5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUV 005625

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-10
Client Sample ID: 2851

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 10:55:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEPH1AA		Report DB ID:	9KQEPH10				
ALPHA	**1.14E-01**	U	3.0E+00	3.0E+00	7.34E+00	pCi/L	100%	*0.02*	7/7/08 09:41 a		0.0189	GPC10I
						2.90E+00	3.00E+00	*0.08*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEPH1AC		Report DB ID:	9KQEPH10				
BETA	**8.37E+01**		9.9E+00	1.5E+01	1.26E+01	pCi/L	100%	*(6.6)*	7/7/08 03:19 p		0.0293	GPC27/
						6.05E+00	4.00E+00	*(11.5)*			L	

No. of Results: 2 Comments:

20

TestAmerica
OptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVA 005626

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/10/2008 10:25:00 AM
Lot-Sample No.:	J8F230115-11	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2852	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEPJ1AA		Report DB ID:	9KQEPJ10				
ALPHA	**3.10E+00**	U	2.4E+00	2.5E+00	3.20E+00	pCi/L	100%	*0.97*	7/7/08 09:41 a		0.0295	GPC10F
						1.13E+00	3.00E+00	*(2.5)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEPJ1AC		Report DB ID:	9KQEPJ10				
BETA	**5.57E+00**	U	5.7E+00	5.8E+00	1.11E+01	pCi/L	100%	*0.5*	7/7/08 03:19 p		0.0375	GPC27E
						5.34E+00	4.00E+00	*(1.9)*			L	

No. of Results: 2 Comments:

TestAmerica
AptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-12
Client Sample ID: 2853

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 9:40:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEPM1AA		Report DB ID:	9KQEPM10				
ALPHA	**5.79E-01**	U	1.3E+00	1.3E+00	2.96E+00	pCi/L	100%	*0.2*	7/7/08 12:37 p		0.0878	GPC11A
						1.20E+00	3.00E+00	*0.87*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEPM2AC		Report DB ID:	9KQEPM20				
BETA	**1.62E+00**	U	1.9E+00	1.9E+00	3.63E+00	pCi/L	100%	*0.45*	7/8/08 03:08 p		0.1134	GPC27E
						1.75E+00	4.00E+00	*(1.7)*			L	

No. of Results: 2 Comments:

22

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-13
Client Sample ID: 2854

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 9:15:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEPN1AA		Report DB ID: 9KQEPN10						
ALPHA	**6.34E-01**	U	1.1E+00	1.1E+00	2.22E+00	pCi/L	100%	*0.29*	7/7/08 12:37 p		0.1516	GPC11C
						9.32E-01	3.00E+00	*(1.2)*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEPN1AC		Report DB ID: 9KQEPN10						
BETA	**1.95E+00**	U	1.9E+00	1.9E+00	3.79E+00	pCi/L	100%	*0.51*	7/7/08 02:28 p		0.1668	GPC32E
						1.80E+00	4.00E+00	*(2.1)*			L	

No. of Results: 2 Comments:

23

TestAmerica
TestSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 0005629

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-14
Client Sample ID: 2855

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/10/2008 8:45:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEPT1AA		Report DB ID:	9KQEPT10				
ALPHA	**5.38E-01**	U	7.0E-01	7.1E-01	1.34E+00	pCi/L	100%	*0.4*	7/7/08 12:37 p		0.1389	GPC11D
						4.98E-01	3.00E+00	*(1.5)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEPT2AC		Report DB ID:	9KQEPT20				
BETA	**4.27E+00**		1.6E+00	1.7E+00	2.77E+00	pCi/L	100%	*(1.5)*	7/8/08 03:08 p		0.1448	GPC27D
						1.33E+00	4.00E+00	*(5.1)*			L	

No. of Results: 2 Comments:

24

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/10/2008 8:00:00 AM
Lot-Sample No.:	J8F230115-15	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2856	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQEQM1AA		Report DB ID: 9KQEQM10					
ALPHA	**1.25E+00**	U	1.2E+00	1.2E+00	1.88E+00	pCi/L	100%	*0.67*	7/7/08 12:37 p		0.1025	GPC12A
						6.83E-01	3.00E+00	*(2.1)*			L	
Batch: 8178524	RICHRC5014			Work Order:	KQEQM2AC		Report DB ID: 9KQEQM20					
BETA	**1.39E+00**	U	1.8E+00	1.8E+00	3.48E+00	pCi/L	100%	*0.4*	7/8/08 03:08 p		0.1204	GPC28B
						1.68E+00	4.00E+00	*(1.5)*			L	

No. of Results: 2 Comments:

25

TestAmerica
RptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 005631

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-16
Client Sample ID: 2875

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/11/2008 2:10:00 PM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQEQR1AA		Report DB ID: 9KQEQR10						
ALPHA	**1.44E-01**	U	2.0E+00	2.0E+00	4.58E+00	pCi/L	100%	*0.03*	7/7/08 09:41 a		0.0419	GPC11A
						1.97E+00	3.00E+00	*0.14*			L	
Batch: 8178524	RICHRC5014			Work Order: KQEQR1AC		Report DB ID: 9KQEQR10						
BETA	**6.52E+00**		3.0E+00	3.1E+00	5.53E+00	pCi/L	100%	*(1.2)*	7/7/08 03:19 p		0.0819	GPC27C
						2.68E+00	4.00E+00	*(4.2)*			L	

No. of Results: 2 Comments:

26

TestAmerica
ptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 005632

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/11/2008 11:15:00 AM
Lot-Sample No.:	J8F230115-17	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2876	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQEQ21AC		Report DB ID: 9KQEQ210						
BETA	**2.08E+00**	U	1.6E+00	1.6E+00	3.23E+00	pCi/L	100%	*0.64*	7/3/08 04:44 p		0.1999	GPC26A
						1.54E+00	4.00E+00	*(2.6)*			L	

No. of Results: 1 Comments:

27

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW_005633

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-18
Client Sample ID: 2877

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/11/2008 10:00:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQEQ41AC		Report DB ID: 9KQEQ410						
BETA	**1.43E+01**		3.2E+00	3.7E+00	5.25E+00	pCi/L	100%	*(2.7)*	7/3/08 02:00 p		0.0853	GPC27C
						2.54E+00	4.00E+00	*(7.8)*			L	

No. of Results: 1 Comments:

28

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW-005634

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/11/2008 8:45:00 AM
Lot-Sample No.:	J8F230115-19	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2879	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQEQ61AC		Report DB ID: 9KQEQ610						
BETA	**7.20E+00**		2.4E+00	2.7E+00	4.17E+00	pCi/L	100%	*(1.7)*	7/3/08 02:00 p		0.0953	GPC28B
						2.00E+00	4.00E+00	*(5.4)*			L	

No. of Results: 1 Comments:

29

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-20
Client Sample ID: 2880

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/11/2008 12:40:00 PM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQERA1AC		Report DB ID: 9KQERA10						
BETA	**6.77E+00**		2.5E+00	2.7E+00	4.44E+00	pCi/L	100%	*(1.5)*	7/3/08 02:00 p		0.0991	GPC28C
						2.14E+00	4.00E+00	*(5.1)*			L	

No. of Results: 1 Comments:

30

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/11/2008 12:05:00 PM
Lot-Sample No.:	J8F230115-21	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2881	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order:	KQERF1AC		Report DB ID:	9KQERF10				
BETA	**2.23E+01**		5.1E+00	5.9E+00	8.14E+00	pCi/L	100%	*(2.7)*	7/3/08 02:00 p		0.0504	GPC28D
						3.91E+00	4.00E+00	*(7.6)*			L	

No. of Results: 1 Comments:

31

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUV 005637

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-22
Client Sample ID: 2882

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/11/2008 1:50:00 PM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order:	KQERH1AC		Report DB ID:	9KQERH10				
BETA	**1.53E+01**		6.1E+00	6.4E+00	1.07E+01	pCi/L	100%	*(1.4)*	7/3/08 02:00 p		0.0378	GPC31A
						5.17E+00	4.00E+00	*(4.8)*			L	

No. of Results: 1 Comments:

32

TestAmerica
RptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVF 005638

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 11:30:00 AM
Lot-Sample No.:	J8F230115-23	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2890	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQERM1AC		Report DB ID: 9KQERM10						
BETA	**2.92E+00**	U	1.6E+00	1.6E+00	3.05E+00	pCi/L	100%	*0.96*	7/3/08 04:44 p		0.2002	GPC26C
						1.45E+00	4.00E+00	*(3.6)*			L	

No. of Results: 1 Comments:

33

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-24
Client Sample ID: 2891

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/12/2008 11:10:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order:	KQERP2AC		Report DB ID:	9KQERP20				
BETA	**4.11E+00**		2.1E+00	2.1E+00	3.79E+00	pCi/L	100%	*(1.1)*	7/8/08 09:36 a		0.1021	GPC27A
						1.82E+00	4.00E+00	*(3.8)*			L	

No. of Results: 1 Comments:

34

TestAmerica
RptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 005640

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 10:50:00 AM
Lot-Sample No.:	J8F230115-25	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2892	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQERQ1AC		Report DB ID: 9KQERQ10						
BETA	**5.49E+00**		2.8E+00	2.9E+00	5.31E+00	pCi/L	100%	*(1.)*	7/3/08 04:44 p		0.1008	GPC28B
						2.52E+00	4.00E+00	*(3.7)*			L	

No. of Results: 1 Comments:

35

TestAmerica
rptSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUV2 005641

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-26
Client Sample ID: 2893

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/12/2008 9:40:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQERW1AC		Report DB ID: 9KQERW10						
BETA	**6.79E+00**		2.0E+00	2.2E+00	3.47E+00	pCi/L	100%	*(2.)*	7/3/08 04:44 p		0.1886	GPC28C
						1.65E+00	4.00E+00	*(6.1)*			L	

No. of Results: 1 Comments:

36

TestAmerica
StSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 005642

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 9:42:00 AM
Lot-Sample No.:	J8F230115-27	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2894	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQERX1AC		Report DB ID: 9KQERX10						
BETA	**7.41E+00**		2.0E+00	2.2E+00	3.16E+00	pCi/L	100%	*(2.3)*	7/3/08 04:44 p		0.1923	GPC28D
						1.50E+00	4.00E+00	*(6.8)*			L	

No. of Results: 1 Comments:

37

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 8:35:00 AM
Lot-Sample No.:	J8F230115-28	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2895	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQER21AC		Report DB ID: 9KQER210						
BETA	**1.46E+01**		4.6E+00	5.2E+00	7.78E+00	pCi/L	100%	*(1.9)*	7/3/08 02:00 p		0.0533	GPC31B
						3.75E+00	4.00E+00	*(5.6)*			L	

No. of Results: 1 Comments:

38

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUW 005644

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 9:05:00 AM
Lot-Sample No.:	J8F230115-29	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2896	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQER31AC		Report DB ID: 9KQER310						
BETA	**1.31E+01**		3.0E+00	3.5E+00	4.92E+00	pCi/L	100%	*(2.7)*	7/3/08 02:00 p		0.087	GPC31D
						2.37E+00	4.00E+00	*(7.5)*			L	

No. of Results: 1 Comments:

39

TestAmerica
rptSTLRchSample
V 9.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-30
Client Sample ID: 2897

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/12/2008 8:15:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQER41AC			Report DB ID: 9KQER410					
BETA	**1.36E+00**	U	1.4E+00	1.5E+00	2.98E+00	pCi/L	100%	*0.45*	7/3/08 04:44 p		0.2003	GPC31A
						1.42E+00	4.00E+00	*(1.9)*			L	

No. of Results: 1 Comments:

40

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 7:45:00 AM
Lot-Sample No.:	J8F230115-31	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2898	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQER51AC		Report DB ID: 9KQER510						
BETA	**8.13E+00**		3.4E+00	3.5E+00	6.02E+00	pCi/L	100%	*(1.3)*	7/3/08 02:00 p		0.0684	GPC32A
						2.90E+00	4.00E+00	*(4.6)*			L	

No. of Results: 1 Comments:

41

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-32
Client Sample ID: 2899

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/12/2008 10:55:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQER61AC		Report DB ID: 9KQER610						
BETA	**-3.91E-01**	U	9.5E-01	9.5E-01	2.21E+00	pCi/L	100%	*-0.18*	7/3/08 04:44 p		0.2003	GPC31B
						1.05E+00	4.00E+00	*-0.82*			L	

No. of Results: 1 Comments:

TestAmerica
RtSTLRchSample
5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVE 005648

FORM I

SAMPLE RESULTS

Date: 10-Jul-08

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/12/2008 10:55:00 AM
Lot-Sample No.:	J8F230115-32	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2899	COC No. :		Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

43

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVA 005649

FORM II

Date: 10-Jul-08

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-1
Client Sample ID: 2806 DUP

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/9/2008 5:10:00 PM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQENR1AD		Report DB ID: KQENR1DR			Orig Sa DB ID: 9KQENR10			
ALPHA	8.89E-01	U	9.3E-01	9.5E-01	1.68E+00	pCi/L	100%	0.53	7/7/08 08:51 a		0.1516	GPC12B
	4.51E-01	U	RER2 0.8			3.00E+00		(1.9)			L	

No. of Results: 1 Comments:

44

TestAmerica RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 10-Jul-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	38070	Collection Date:	6/9/2008 7:00:00 PM
Lot-Sample No.:	J8F230115-2	Report No. :	39463	Received Date:	6/19/2008 10:00:00 AM
Client Sample ID:	2807 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178524	RICHRC5014			Work Order: KQENW2AD		Report DB ID: KQENW2DR			Orig Sa DB ID: 9KQENW20			
BETA	2.66E+00	U	1.7E+00	1.7E+00	3.17E+00	pCi/L	100%	0.84	7/8/08 03:08 p		0.1297	GPC26B
	2.74E+00	U	RER2 0.1			4.00E+00		(3.1)			L	

No. of Results: 1 Comments:

45

TestAmerica
rptSTLRchDupV5.1
.6 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NUVA 005651

FORM II

Date: 10-Jul-08

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J8F230115-18
Client Sample ID: 2877 DUP

SDG: 38070
Report No. : 39463
COC No. :

Collection Date: 6/11/2008 10:00:00 AM
Received Date: 6/19/2008 10:00:00 AM
Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178525	RICHRC5014			Work Order: KQEQ41AD		Report DB ID: KQEQ41DR			Orig Sa DB ID: 9KQEQ410			
BETA	1.27E+01		3.1E+00	3.5E+00	5.09E+00	pCi/L	100%	(2.5)	7/3/08 02:00 p		0.0854	GPC27D
	1.43E+01		RER2 0.6			4.00E+00		(7.3)			L	

No. of Results: 1 Comments:

46

TestAmerica RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
.6 A2002

NUV 005652

FORM II

BLANK RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica

Matrix: WATER

SDG: 38070

Report No. : 39463

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order: KQNWW1AA		Report DB ID: KQNWW1AB						
ALPHA	-2.35E-01	U	2.3E-01	2.4E-01	6.35E-01	pCi/L	100%	-0.37	7/7/08 09:41 a		0.2001	GPC11C
					2.80E-01	3.00E+00		-(2.)			L	
Batch: 8178524	RICHRC5014			Work Order: KQNW01AA		Report DB ID: KQNW01AB						
BETA	-4.18E-01	U	9.1E-01	9.1E-01	1.90E+00	pCi/L	100%	-0.22	7/7/08 03:19 p		0.2	GPC27D
					9.18E-01	4.00E+00		-0.91			L	
Batch: 8178525	RICHRC5014			Work Order: KQNW11AA		Report DB ID: KQNW11AB						
BETA	-2.22E-01	U	9.6E-01	9.6E-01	1.98E+00	pCi/L	100%	-0.11	7/3/08 02:00 p		0.2001	GPC32B
					9.53E-01	4.00E+00		-0.46			L	

No. of Results: 3. Comments:

47

TestAmerica
rptSTLRchBlank
V 1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

NOV 005653

FORM II

LCS RESULTS

Date: 10-Jul-08

Lab Name: TestAmerica

Matrix: WATER

SDG: 38070

Report No. : 39463

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8178522	RICHRC5014			Work Order:	KQNWW1AC		Report DB ID:	KQNWW1CS					
ALPHA	3.68E+01		2.0E+00	7.8E+00	3.60E-01	pCi/L	100%	4.08E+01	6.29E-01	90%	7/7/08 09:41 a	0.2002	GPC11D
							Rec Limits:	70	130	-0.1		L	
Batch: 8178524	RICHRC5014			Work Order:	KQNW01AC		Report DB ID:	KQNW01CS					
BETA	3.94E+01		2.0E+00	6.6E+00	1.56E+00	pCi/L	100%	4.08E+01	4.71E-01	97%	7/7/08 05:22 p	0.2003	GPC28B
							Rec Limits:	70	130	0.0		L	
Batch: 8178525	RICHRC5014			Work Order:	KQNW11AC		Report DB ID:	KQNW11CS					
BETA	4.08E+01		2.2E+00	6.0E+00	1.76E+00	pCi/L	100%	4.08E+01	4.70E-01	100%	7/3/08 02:00 p	0.2004	GPC32C
							Rec Limits:	70	130	0.0		L	

No. of Results: 3 Comments:

48

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.

tSTLRchLcs
.1.6 A2002

NUMV 003654

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL iasec3308@iasenvirochem.com

Company Name:	Engineers Inc WAYNE ERICSON				
Address:	301 W. College Ave Suite 1				
City	SILVER CITY	State:	NM	Zip:	88061
Phone:	505-574-2295	P.O. #			

Special INSTRUCTIONS

J8F230115
38070
Due 07.10.08

SAMPLE INFORMATION

Analyses Requested

Comments

TRK # (Lab use only)	Sample Desciption		Date/Time Collected		Number of Containers	Gross Alpha	Gross Beta
KQENR	10608-	2806	06/09/08	17:10	1	X	X
KQENW	10608-	2807	06/09/08	19:00	1	X	X
KQENO	10608-	2808	06/09/08	18:20	1	X	X
KQENI	10608-	2809	06/09/08	16:10	1	X	X
KQEN3	10608-	2810	06/09/08	15:10	1	X	X
KQEN4	10608-	2847	06/10/08	14:00	1	X	X
KQEN6	10608-	2848	06/10/08	13:30	1	X	X
KQEPD	10608-	2849	06/10/08	12:25	1	X	X
KQEPF	10608-	2850	06/10/08	11:30	1	X	X
KQEPH	10608-	2851	06/10/08	10:55	1	X	X
KQEPJ	10608-	2852	06/10/08	10:25	1	X	X
KQEPM	10608-	2853	06/10/08	9:40	1	X	X
KQEPN	10608-	2854	06/10/08	9:15	1	X	X
KQEPT	10608-	2855	06/10/08	8:45	1	X	X
KQEQM	10608-	2856	06/10/08	8:00	1	X	X
KQEQR	10608-	2875	06/11/08	14:10	1	X	X
KQEQ2	10608-	2876	06/11/08	11:15	1	X	X
KQEQ4	10608-	2877	06/11/08	10:00	1	X	X
KQEQ6	10608-	2879	06/11/08	8:45	1	X	X
KQERA	10608-	2880	06/11/08	12:40	1	X	X
KQERF	10608-	2881	06/11/08	12:05	1	X	X
KQERH	10608-	2882	06/11/08	13:50	1	X	X
KQERM	10608-	2890	06/12/08	11:30	1	X	X
KQERP	10608-	2891	06/12/08	11:10	1	X	X
KQERQ	10608-	2892	06/12/08	10:50	1	X	X
KQERW	10608-	2893	06/12/08	9:40	1	X	X
KQERX	10608-	2894	06/12/08	9:42	1	X	X
KQER2	10608-	2895	06/12/08	8:35	1	X	X
KQER3	10608-	2896	06/12/08	9:05	1	X	X
KQER4	10608-	2897	06/12/08	8:15	1	X	X
KQER5	10608-	2898	06/12/08	7:45	1	X	X
KQER6	10608-	2899	06/12/08	10:55	1	X	X

RELINQUISHED BY

Signature: [signature]
Printed Name: Courtney Huerta
Date/Time: 6/16/08 16:00

RECEIVED BY

Signature: [signature]
Printed Name: LVLANE
Date/Time: 6190810 00

Lab Use Only

Received Intact? YES NO
Labels and Chain Agree? YES NO
Container Sealed? YES NO

NUW 005655

ENGINEERS INC
ATTN: ACCOUNTING DEPT.

REQUISITION NO. NUW0801P

MTHLY ORDER
EMERGENCY
Payment Method
Master Card
Charge
Check

SHIP TO: ENGINEERS INC
301 W. College Ave, Suite 1
Silver City, NM 88061

REQUISITION ORDER

DATE OF REQUISITION: 5/13/08

NAME: WAE

OFFICE:

VENDOR NAME: TEST America (formerly STL)

Phone 509-375-3131

FAX 509-375-5590

QUANTITY	UNIT	ITEM #	ITEM DESCRIPTION	ITEM PRICE	TOTAL PRICE
±33	ea	1	GROSS ALPHA EPA 900.0		2200-2600
			GROSS BETA EPA 900.0		
			SAMPLES FROM		
			Agrium (NU-West)		
			Conda Phosphate Op.		
			TO BE shipped by		
			IAS Environtech		
			Pocatello, ID		

TOTAL AMOUNT OF REQUISITION $2200-2600

DATE REQUISITION RECEIVED: WAE

FINANCIAL DEPT. APPROVAL BY: DATE 5/13/08

Test America to be paid upon receipt & Payment from Nu-West (Agrium).

WAE
5/13/08

L:\Forms\Dv01-General Forms\01018 Requisition Order Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 61908 1000 GM Screen Result 0.1K

Client: ENG SDG #: 38070 NA[ ] SAF #: _____ NA [X]

Work Order Number: J8F230115 Chain of Custody # _____

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [✓] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 32
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added 2mL/LP
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 61908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

NUW 005657

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date Submitted: 6/10/2008
Date Reported: 6/27/2008

Certificate of Analysis

Sample Description: MW05-1
Sampling Date: 06-09-2008
Sampling Time: 17:10
Date Received: 06-10-2008
Lab Tracking #: 106082806

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	370	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	370	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	5	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	1.17	mg/L	300.0	06/10/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	786	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	23	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	462	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.08	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/13/08	WJ
pH units	7.6	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.095	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	86.97	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	46.43	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	2.66	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	7.25	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.024	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.2	mg/L	Calc	06/18/08	RP

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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www.iasenvirochem.com

EnviroChem

INDUSTRIAL • WATER • WASTE • SOIL • GEOCHEMICAL • FIRE ASSAY • QA/QC

Sample Description: MW05-2
Sampling Date: 06-09-2008
Sampling Time: 19:00
Date Received: 06-10-2008
Lab Tracking #: 106082807

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	400	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	400	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	4	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/10/08	RP
Ortho Phos:P mg/L	0.02	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	752	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	40	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	466	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.04	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	4	mg/L	160.2	06/13/08	WJ
pH units	7.7	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.078	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	97.74	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.13	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	46.96	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.099	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	1.97	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	4.75	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.024	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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www.iasenvirochem.com

EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - BIOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: MW05-3
Sampling Date: 06-09-2008
Sampling Time: 18:20
Date Received: 06-10-2008
Lab Tracking #: 106082808

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	460	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	460	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	5	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/10/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	864	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	75	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	580	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.04	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/13/08	WJ
pH units	7.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.088	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	111.80	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.07	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	61.50	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.049	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.31	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	6.88	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.013	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: MW05-4
Sampling Date: 06-09-2008
Sampling Time: 16:10
Date Received: 06-10-2008
Lab Tracking #: 106082809

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	370	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	370	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	13	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	2.58	mg/L	300.0	06/10/08	RP
Ortho Phos:P mg/L	0.06	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	799	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	29	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	498	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.08	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	3	mg/L	160.2	06/13/08	WJ
pH units	7.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.049	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	93.94	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.05	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	47.45	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	2.76	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	6.64	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.023	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	2.6	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: MW05-5
Sampling Date: 06-09-2008
Sampling Time: 15:10
Date Received: 06-10-2008
Lab Tracking #: 106082810

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	440	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	440	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	5	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	1.60	mg/L	300.0	06/10/08	RP
Ortho Phos:P mg/L	0.74	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	874	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	56	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	540	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.73	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	06/13/08	WJ
pH units	8.0	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.080	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	108.90	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	51.98	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.21	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	12.86	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.018	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.6	mg/L	Calc	06/18/08	RP

G. Ryan Pattie/ch
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date Submitted: 6/10/2008
Date Reported: 6/27/2008

Certificate of Analysis

Sample Description: A-6
Sampling Date: 06-10-2008
Sampling Time: 14:00
Date Received: 06-10-2008
Lab Tracking #: 106082847

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1240	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	1240	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	19.89	mg/L	350.1	06/13/08	RP
Chloride mg/L	46	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	17.39	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	38.38	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	3220	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	998	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	2796	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	22.8	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	42.24	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	193	mg/L	160.2	06/13/08	WJ
pH units	7.3	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.06	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.015	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.193	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	341.20	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.022	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.11	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	169.20	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.131	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.091	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	23.22	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.014	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	331.60	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.008	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.029	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	40.2	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-3
Sampling Date: 06-10-2008
Sampling Time: 13:30
Date Received: 06-10-2008
Lab Tracking #: 106082848

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	780	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	780	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	11	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	3.40	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	0.22	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	1532	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	100	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	1120	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	1.14	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	590	mg/L	160.2	06/12/08	WJ
pH units	6.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.12	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.180	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	211.50	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.12	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	89.55	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.041	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.036	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	5.85	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	44.00	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.042	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	3.4	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-9A
Sampling Date: 06-10-2008
Sampling Time: 12:25
Date Received: 06-10-2008
Lab Tracking #: 106082849

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1120	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	1120	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	3.02	mg/L	350.1	06/13/08	RP
Chloride mg/L	50	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	9.38	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	4.22	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	2750	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	868	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	2438	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	5.0	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	4.25	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	13	mg/L	160.2	06/12/08	WJ
pH units	7.2	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.127	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	356.80	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.07	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	167.90	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.040	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	12.79	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	214.10	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.019	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	14.4	mg/L	Calc	06/18/08	RP

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Sample Description: A-11
Sampling Date: 06-10-2008
Sampling Time: 11:30
Date Received: 06-10-2008
Lab Tracking #: 106082850

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	650	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	650	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	3.93	mg/L	350.1	06/13/08	RP
Chloride mg/L	21	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	18.39	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	6.12	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	1476	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	187	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	1042	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	6.0	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	8.13	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	1468	mg/L	160.2	06/12/08	WJ
pH units	6.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.27	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.125	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	153.60	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.18	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	75.85	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.377	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.048	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	11.35	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	80.25	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.042	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	24.4	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-7
Sampling Date: 06-10-2008
Sampling Time: 10:55
Date Received: 06-10-2008
Lab Tracking #: 106082851

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1280	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	1280	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	73.85	mg/L	350.1	06/13/08	RP
Chloride mg/L	55	mg/L	300.0	06/10/08	RP
Nitrate:N mg/L	5.93	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	94.11	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	3780	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	1201	mg/L	300.0	06/10/08	RP
Total Dissolved Solids mg/L	2986	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	78.3	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	98.78	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	15	mg/L	160.2	06/12/08	WJ
pH units	7.2	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.028	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.023	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	158.00	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.008	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.07	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	165.90	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	1.240	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.027	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	77.95	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.016	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	582.20	mg/L	200.8	06/26/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.028	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/10/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	84.2	mg/L	Calc	06/18/08	RP

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Sample Description: A-4
Sampling Date: 06-10-2008
Sampling Time: 10:25
Date Received: 06-10-2008
Lab Tracking #: 106082852

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1100	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	1100	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	0.11	mg/L	350.1	06/13/08	RP
Chloride mg/L	31	mg/L	300.0	06/11/08	RP
Nitrate:N mg/L	19.04	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	0.24	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	2630	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	694	mg/L	300.0	06/11/08	RP
Total Dissolved Solids mg/L	2410	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.30	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	18	mg/L	160.2	06/12/08	WJ
pH units	6.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.05	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.076	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	425.20	mg/L	200.8	06/26/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.07	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	164.40	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.128	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	7.61	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.060	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	112.40	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.024	mg/L	200.8	06/25/08	RP
Fluoride mg/L	0.6	mg/L	300.0	06/11/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	19.0	mg/L	Calc	06/18/08	RP

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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - GA/GC

Sample Description: NW-5
Sampling Date: 06-10-2008
Sampling Time: 9:40
Date Received: 06-10-2008
Lab Tracking #: 106082853

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	430	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	430	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	0.11	mg/L	350.1	06/13/08	RP
Chloride mg/L	7	mg/L	300.0	06/11/08	RP
Nitrate:N mg/L	1.27	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	1.48	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	1003	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	162	mg/L	300.0	06/11/08	RP
Total Dissolved Solids mg/L	686	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	1.55	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	4	mg/L	160.2	06/12/08	WJ
pH units	7.7	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.038	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	125.20	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.011	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.09	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	53.59	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.070	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.54	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	18.17	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.026	mg/L	200.8	06/25/08	RP
Fluoride mg/L	0.6	mg/L	300.0	06/11/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.3	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-2
Sampling Date: 06-10-2008
Sampling Time: 9:15
Date Received: 06-10-2008
Lab Tracking #: 106082854

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	390	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	390	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	4	mg/L	300.0	06/11/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	734	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	34	mg/L	300.0	06/11/08	RP
Total Dissolved Solids mg/L	446	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.05	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/12/08	WJ
pH units	7.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.063	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	94.99	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	41.55	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	1.05	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	4.48	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.022	mg/L	200.8	06/25/08	RP
Fluoride mg/L	0.6	mg/L	300.0	06/11/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-2A
Sampling Date: 06-10-2008
Sampling Time: 8:45
Date Received: 06-10-2008
Lab Tracking #: 106082855

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	410	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	410	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	0.12	mg/L	350.1	06/13/08	RP
Chloride mg/L	4	mg/L	300.0	06/11/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	0.11	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	738	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	40	mg/L	300.0	06/11/08	RP
Total Dissolved Solids mg/L	480	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.10	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	5	mg/L	160.2	06/12/08	WJ
pH units	7.7	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.103	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	92.73	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.16	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	46.87	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.429	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	2.52	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	6.18	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.027	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/11/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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Sample Description: NW-10
Sampling Date: 06-10-2008
Sampling Time: 8:00
Date Received: 06-10-2008
Lab Tracking #: 106082856

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	360	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	360	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	0.21	mg/L	350.1	06/13/08	RP
Chloride mg/L	7	mg/L	300.0	06/11/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/11/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	06/10/08	RP
Specific Conductance us/cm	902	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	168	mg/L	300.0	06/11/08	RP
Total Dissolved Solids mg/L	666	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.14	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	6	mg/L	160.2	06/12/08	WJ
pH units	7.6	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.101	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	115.50	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.38	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	56.11	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.523	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	2.71	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	10.88	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.012	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/11/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

G. Ryan Pattie/ch
Lab Director

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Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
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Date 6/11/2008
Date Reported: 6/27/2008

Certificate of Analysis

Sample Description: NW-9
Sampling Date: 06-11-2008
Sampling Time: 14:10
Date Received: 06-11-2008
Lab Tracking #: 106082875

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	110	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	110	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	6.99	mg/L	350.1	06/13/08	RP
Chloride mg/L	85	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	20.43	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	32.83	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1560	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	598	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	1640	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	8.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	49.29	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	181	mg/L	160.2	06/16/08	WJ
pH units	6.4	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.77	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.009	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.006	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	0.033	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	156.00	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.022	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.05	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	85.22	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	1.583	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.175	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	7.65	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.010	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	80.12	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.172	mg/L	200.8	06/25/08	RP
Fluoride mg/L	22.6	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	28.9	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-1
Sampling Date: 06-11-2008
Sampling Time: 11:15
Date Received: 06-11-2008
Lab Tracking #: 106082876

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	220	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	220	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	17	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	486	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	4	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	284	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.87	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	23	mg/L	160.2	06/16/08	WJ
pH units	7.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.06	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.090	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	60.75	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.06	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	18.52	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	1.29	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	5.87	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.025	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/06	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-5
Sampling Date: 06-11-2008
Sampling Time: 10:00
Date Received: 06-11-2008
Lab Tracking #: 106082877

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	580	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	580	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	25	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.07	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1365	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	268	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	1152	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.14	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	4	mg/L	160.2	06/16/08	WJ
pH units	7.4	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.069	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	191.40	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	82.94	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	10.92	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	20.07	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.040	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - BIOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-8
Sampling Date: 06-11-2008
Sampling Time: 10:20
Date Received: 06-11-2008
Lab Tracking #: 106082878

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1210	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	1210	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	48.74	mg/L	350.1	06/13/08	RP
Chloride mg/L	57	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	17.73	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	32.85	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	3260	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	850	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	2876	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	59.7	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	55.95	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2302	mg/L	160.2	06/16/08	WJ
pH units	7.3	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.014	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.040	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	196.00	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	158.30	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.600	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.096	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	46.32	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.009	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	539.20	mg/L	200.8	06/26/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.013	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	77.4	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-10
Sampling Date: 06-11-2008
Sampling Time: 8:45
Date Received: 06-11-2008
Lab Tracking #: 106082879

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	450	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	450	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	21	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	7.10	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.02	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1006	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	99	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	730	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.21	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	7	mg/L	160.2	06/16/08	WJ
pH units	7.7	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.066	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	127.90	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.05	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	50.34	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	4.29	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	15.22	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.017	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	7.1	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A-12
Sampling Date: 06-11-2008
Sampling Time: 12:40
Date Received: 06-11-2008
Lab Tracking #: 106082880

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	590	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	590	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	0.08	mg/L	350.1	06/13/08	RP
Chloride mg/L	38	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	1.46	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.05	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1086	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	35	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	712	mg/L	160.1	06/13/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.76	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	701	mg/L	160.2	06/16/08	WJ
pH units	7.3	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.11	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.124	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	142.50	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.10	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	57.90	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.090	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.88	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	20.61	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.026	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.5	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: MWA
Sampling Date: 06-11-2008
Sampling Time: 12:05
Date Received: 06-11-2008
Lab Tracking #: 106082881

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	70	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	70	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	103.95	mg/L	350.1	06/13/08	RP
Chloride mg/L	374	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	138.34	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	21.62	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	2820	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	736	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	2574	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	134.3	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	21.04	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	22	mg/L	160.2	06/16/08	WJ
pH units	5.7	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	1.43	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.009	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.019	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	0.017	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	219.10	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.044	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.014	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	174.10	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	9.43	mg/L	200.8	06/26/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.236	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	18.71	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	93.54	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.008	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.079	mg/L	200.8	06/25/08	RP
Fluoride mg/L	8.1	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	272.6	mg/L	Calc	06/18/08	RP

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Sample Description: MWB
Sampling Date: 06-11-2008
Sampling Time: 13:50
Date Received: 06-11-2008
Lab Tracking #: 106082882

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	11.85	mg/L	350.1	06/13/08	RP
Chloride mg/L	47	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	2.51	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	202.20	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	2210	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	1558	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	2992	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	12.3	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	205.35	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	34	mg/L	160.2	06/16/08	WJ
pH units	4.2	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	55.12	mg/L	200.8	06/26/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.042	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.014	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	0.171	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	175.20	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	0.137	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.064	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	1.97	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	239.40	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	11.49	mg/L	200.8	06/26/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	1.270	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	13.06	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.004	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	119.00	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.054	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	2.149	mg/L	200.8	06/25/08	RP
Fluoride mg/L	120.7	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	14.8	mg/L	Calc	06/18/08	RP

G. Ryan Pattie/ch
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

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Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date 6/12/2008
Date Reported: 6/27/2008

Certificate of Analysis

Sample Description: LOWRY
Sampling Date: 06-12-2008
Sampling Time: 11:30
Date Received: 06-12-2008
Lab Tracking #: 106082890

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	160	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	160	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	54	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	15.57	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.08	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	671	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	54	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	458	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.18	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/16/08	WJ
pH units	7.5	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.027	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	72.50	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	17.01	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.96	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	22.84	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.124	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	15.6	mg/L	Calc	06/18/08	RP

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Sample Description: TORGESEN
Sampling Date: 06-12-2008
Sampling Time: 11:10
Date Received: 06-12-2008
Lab Tracking #: 106082891

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	430	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	430	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	57	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	33.67	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.08	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1173	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	74	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	806	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.12	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	06/16/08	WJ
pH units	7.6	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.070	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	140.80	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/26/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	64.50	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	3.81	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	16.01	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.043	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	33.7	mg/L	Calc	06/18/08	RP

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Sample Description: NW-8
Sampling Date: 06-12-2008
Sampling Time: 10:50
Date Received: 06-12-2008
Lab Tracking #: 106082892

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	210	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	210	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	11	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	3.25	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.05	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	511	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	31	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	378	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.13	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/16/08	WJ
pH units	8.1	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.138	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	61.07	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.06	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	18.50	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	4.25	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	8.30	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.027	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	3.3	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: NW-7
Sampling Date: 06-12-2008
Sampling Time: 9:40
Date Received: 06-12-2008
Lab Tracking #: 106082893

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	270	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	270	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	19	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	3.61	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.08	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	807	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	170	mg/L	300.0	06/12/08	RP
Total Dissolved Solids mg/L	654	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.11	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	06/16/08	WJ
pH units	7.9	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.01	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.114	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	107.20	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	32.99	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	4.60	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.018	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	11.52	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	3.6	mg/L	Calc	06/18/08	RP

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Sample Description: DUP
Sampling Date: 06-12-2008
Sampling Time: 9:42
Date Received: 06-12-2008
Lab Tracking #: 106082894

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	280	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	280	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	20	mg/L	300.0	06/12/08	RP
Nitrate:N mg/L	3.62	mg/L	300.0	06/12/08	RP
Ortho Phos:P mg/L	0.08	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	802	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	170	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	638	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.11	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	06/16/08	WJ
pH units	7.9	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.117	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	106.90	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	32.84	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	4.59	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.018	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	11.50	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.027	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/12/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	3.6	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: JRS-10
Sampling Date: 06-12-2008
Sampling Time: 8:35
Date Received: 06-12-2008
Lab Tracking #: 106082895

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	560	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	560	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	8.89	mg/L	350.1	06/13/08	RP
Chloride mg/L	41	mg/L	300.0	06/13/08	RP
Nitrate:N mg/L	16.04	mg/L	300.0	06/13/08	RP
Ortho Phos:P mg/L	11.61	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1782	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	555	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	1554	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	14.2	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	11.14	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	5	mg/L	160.2	06/16/08	WJ
pH units	6.9	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.01	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.126	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	206.50	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	91.44	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.095	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	10.97	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.007	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	107.90	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.005	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.017	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/13/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	30.2	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: JRS-8
Sampling Date: 06-12-2008
Sampling Time: 9:05
Date Received: 06-12-2008
Lab Tracking #: 106082896

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	310	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	310	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	1.13	mg/L	350.1	06/13/08	RP
Chloride mg/L	53	mg/L	300.0	06/13/08	RP
Nitrate:N mg/L	17.27	mg/L	300.0	06/13/08	RP
Ortho Phos:P mg/L	1.02	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1464	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	481	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	1276	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	1.1	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	1.12	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	3	mg/L	160.2	06/16/08	WJ
pH units	6.8	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.041	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	198.30	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	56.06	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.360	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.014	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	7.19	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.009	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	70.87	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.034	mg/L	200.8	06/25/08	RP
Fluoride mg/L	0.6	mg/L	300.0	06/13/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	18.4	mg/L	Calc	06/18/08	RP

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Sample Description: JRS-11
Sampling Date: 06-12-2008
Sampling Time: 8:15
Date Received: 06-12-2008
Lab Tracking #: 106082897

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	250	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	250	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	10	mg/L	300.0	06/13/08	RP
Nitrate:N mg/L	1.28	mg/L	300.0	06/13/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	589	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	53	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	390	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.07	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/16/08	WJ
pH units	7.4	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.032	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	87.72	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	15.51	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	1.11	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	0.032	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	7.01	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.193	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/13/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.3	mg/L	Calc	06/18/08	RP

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Sample Description: ARR MAZ
Sampling Date: 06-12-2008
Sampling Time: 7:45
Date Received: 06-12-2008
Lab Tracking #: 106082898

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	780	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	780	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	5	mg/L	300.0	06/13/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/13/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	1181	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	33	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	820	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.05	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	06/16/08	WJ
pH units	7.0	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.02	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.097	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	194.80	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.009	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	61.78	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	4.70	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	6.03	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.222	mg/L	200.8	06/25/08	RP
Fluoride mg/L	0.5	mg/L	300.0	06/13/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: EQ BLANK
Sampling Date: 06-12-2008
Sampling Time: 10:55
Date Received: 06-12-2008
Lab Tracking #: 106082899

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	10	mg/L	310.1	06/18/08	WJ
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	06/18/08	WJ
Alkalinity, TOTAL as CaCO3 mg/L	10	mg/L	310.1	06/18/08	WJ
Ammonia:N mg/L	< 0.05	mg/L	350.1	06/13/08	RP
Chloride mg/L	< 1	mg/L	300.0	06/13/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	06/13/08	RP
Ortho Phos:P mg/L	< 0.01	mg/L	365.2	06/12/08	RP
Specific Conductance us/cm	2.9	us/cm	120.1	06/16/08	WJ
Sulfate mg/L	< 1	mg/L	300.0	06/13/08	RP
Total Dissolved Solids mg/L	4	mg/L	160.1	06/16/08	WJ
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	06/18/08	RP
Total Phos:P mg/L	0.01	mg/L	365.2	06/19/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	06/16/08	WJ
pH units	5.2	pH units	150.1	06/18/08	WJ
Aluminum mg/L 200.8	0.01	mg/L	200.8	06/25/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Barium mg/L 200.8	0.019	mg/L	200.8	06/25/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Calcium mg/L 200.8	0.09	mg/L	200.8	06/25/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	06/25/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Magnesium mg/L 200.8	0.03	mg/L	200.8	06/25/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	06/25/08	RP
Nickel mg/L 200.8	0.003	mg/L	200.8	06/25/08	RP
Potassium mg/L 200.8	0.04	mg/L	200.8	06/25/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Sodium mg/L 200.8	0.10	mg/L	200.8	06/25/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	06/25/08	RP
Zinc mg/L 200.8	0.012	mg/L	200.8	06/25/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	06/13/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	06/18/08	RP

G. Ryan Pattie/ch
Lab Director

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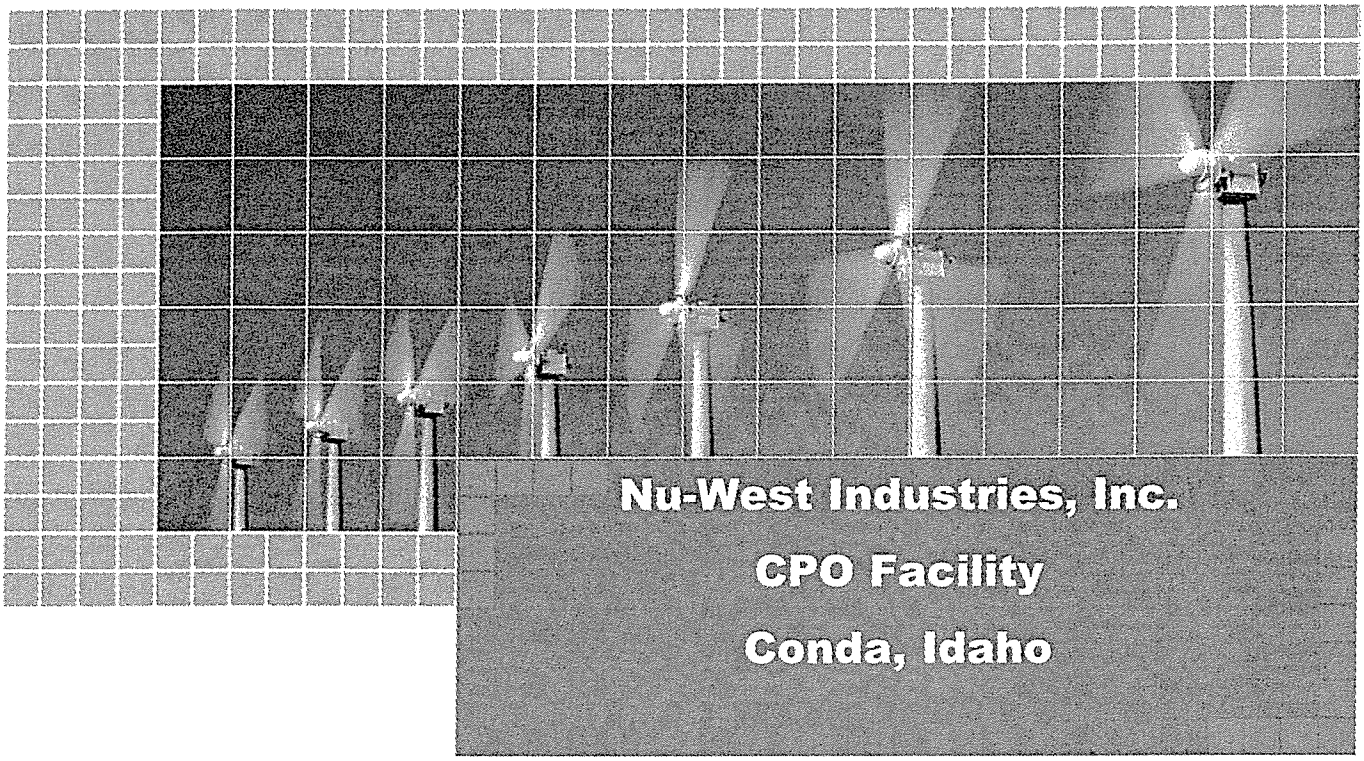

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1 Introduction

WSP Environment & Energy, on behalf Hunton & Williams LLP and Nu-West Industries, Inc. conducted an evaluation of groundwater conditions at the Conda Phosphate Operations (CPO) site and surrounding areas in Soda Springs, Idaho. The objectives of the evaluation were to:

- characterize the regional and local geology and subsurface hydrogeology, including developing a conceptual model of the local hydrogeology in the vicinity of the CPO site;
- evaluate groundwater conditions on the CPO site;
- evaluate the validity of assertions made by Bio-West, Inc. (on behalf of the Torgesen Ranch, Inc.) that nitrate and total nitrogen impact in groundwater from the Torgesen Ranch supply well is attributable to the CPO facility.

This report presents the findings of our evaluation as it relates to the source of nitrate and total nitrogen reported in the Torgesen Ranch well, which is approximately 2,500 feet west of the CPO facility. It is based on a review of groundwater assessment reports for monitoring and production wells on and around the CPO site prepared by Engineers, Inc. dated 2003 through 2008; United States Geological Survey (USGS) Geologic Map of the Soda Springs Quadrangle; Idaho Department of Water Resources (IDWR) well records and other boring logs for wells completed in the vicinity of the CPO property; Expanded Site Inspection Report prepared for the United States Environmental Protection Agency (EPA); Groundwater Flow Evaluation Report prepared by Bio-West; Ecological Risk Assessment prepared by Enercon for Nu-West; and various reports regarding the Monsanto Chemical Company Soda Springs Plant[1] Superfund site on file at Region X of the United States Environmental Protection Agency.

Section 2 presents a discussion of the regional and local geology and the local hydrogeology. Section 3 provides WSP's evaluation of groundwater quality data for wells on and around the CPO site, and Section 4 summarizes the key findings and presents WSP's conclusions.

[1] The Monsanto Chemical Company Soda Springs Plant site is located approximately 3 miles south of the CPO site

2 Geology

The area encompassing the CPO site is situated at the eastern limit of a broad, north-south trending valley, approximately 4 miles wide, that has been filled by lava flows. The valley floor is topographically flat with elevations ranging from approximately 6,135 to 6,150 feet above the National Geodetic Vertical Datum (NGVD). The regional topography slopes gradually to the south. Across the region there are north-northwest trending linear escarpments, typically with 15 to 50 vertical feet of relief. The eastern portion of the CPO site is positioned at the base of the Aspen Range foothills.

The general geology of the region is comprised of alluvial deposits overlying basalt and sandstone bedrock. A generalized geologic cross section of the region is shown in Figure 1. The alluvium consists of silt and clay associated with erosion or windblown deposits, typically less than 50 feet thick. Underlying the alluvium in the valley areas are the Blackfoot Lava flows, consisting of layers of basalt that are several hundred feet thick in the center of the valley. The basalt layers are thinner to the east at the transition zone with the Salt Lake Formation (which is found in the foothills of the Aspen Range), primarily consisting of sandstone and limestone. The Salt Lake Formation, hundreds of feet thick, underlies the basalt units within the valley. The USGS mapped calcareous hot and cold spring deposits (tufa and travertine) in the eastern half of Section 9 of Township 8 South, Range 42 East (USGS, 1969), over which the main part of the CPO facility is located.

The geology of the region has been influenced structurally by thrust faulting and folding associated with mountain-building events. Typically, northwest trending faults border the valleys present in this region. The fault to the east of the CPO site has been geomorphically altered by subsequent erosional processes and covered by sediment, whereas the fault to the west of the CPO site is marked by an escarpment (USGS, 1982).

2.1 LOCAL GEOLOGY

The land surface west of the CPO site is a thin veneer of unconsolidated alluvial overburden material consisting predominately of silt and silty clay. The alluvium is generally 5 to 25 feet thick, but in some areas it is up to 65 feet thick. An example of the thicker alluvium is the northeastern portion of the site in the vicinity of well A-1, northeast of Pond 4. Underlying the overburden is basalt deposited by the Blackfoot Lava flows. Based on a review of boring logs made available for monitoring and supply wells around the CPO site and the Monsanto Superfund site documents, it is evident there have been numerous lava flow events which are separated by alluvium, cinder layers and weathered horizons. The CPO site is situated at the eastern limit of the basalt units, where the Salt Lake Formation sandstone and limestone units intersect the basalt.

The overall thickness of basalt beneath the majority of the site typically is greater than 250 feet. The basalt is described as fine-grained and vesicular, varying from competent to extremely weathered, and exhibits well-developed vertical columnar joints and horizontal joint sets. The joints within the basalt reportedly have 0.5 to 1-inch wide apertures and the horizontal joint sets are typically spaced approximately 1 foot apart.

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The USGS has mapped two faults in the vicinity of the CPO site; one located along the eastern perimeter of the site, and the other to the west of the site. These northwest trending normal faults exhibit west-side down displacements and are characterized by highly fractured and weathered bedrock. The western fault is largely visible as a topographical displacement, whereas the eastern fault is covered with surficial deposits (USGS, 1969). The boring logs for the Torgesen Ranch well and well A-12 on the CPO site, which are located near the west fault zone, confirm that bedrock is highly fractured and weathered. These fault zones are likely preferential pathways for surface water infiltration and groundwater flow.

Aerial photographs confirm a fault trending northwest across the Torgesen Ranch property, displaying a vertical displacement of approximately 15 feet. Radiating from this escarpment are surficial lows where surface water likely accumulates seasonally and subsequently infiltrates into the subsurface, evaporates, or is used. Figure 2 shows two areas labeled Pond A and Pond B. These demark the southerly end of the surface depressions which cross the Torgesen Ranch property, in which surface water would pond. Water from the gypstack release in December 2006 temporarily accumulated and froze in Ponds A and B.

Based on a review of 25 available boring logs for monitoring and production wells, and published technical reports on the local geology, WSP prepared six geologic cross sections of the area encompassing the CPO site and the Torgesen Ranch property to the west. Figure 2 is a base map showing the locations of the cross sections which are presented in Figures 3 through 6. Overall, the site geology is consistent with the regional geology.

Figure 3 depicts geologic cross section A-A'. This section extends south to north along the western portion of the CPO site and adjacent Torgesen Ranch property approximately 13,750 feet and is interpolated based on logs for five groundwater monitoring and production wells (A-10, Torgesen Ranch well, MW05-5, MW05-4, and MW05-01). A key feature to note is the northwest trending fault escarpment present in the central portion of the area. The bedrock adjacent to this fault escarpment is highly fractured and is likely a preferential pathway for surface water infiltration. This has likely increased storativity and conductivity for groundwater flow allowing substantial groundwater yields. The Torgesen Ranch well appears to be located within the highly fractured zone associated with the faults on the downthrown side of the fault. This well is screened within weathered basalt from approximately 185 to 225 feet below grade (5,910 to 5,950 feet NGVD).

Figure 4 presents geologic cross sections B-B' and W-W'. Section B-B' represents an approximately 8,750 feet long south to north profile immediately west of the gypstacks and tailing ponds on the CPO site. It is based on an interpolation of logs for four wells (A-7, A-4, NW-5 and A-2). Of note is the presence of a calcareous deposit (containing calcium carbonate, calcium, or lime) in the vicinity of well A-4. This feature is the result of the deposition of solubilized minerals in groundwater that flowed upward through fractures under pressure; this is consistent with the tufa and travertine (Qt) identified on the USGS geology map. Most of the CPO ponds and operating facility lies over the tufa/travertine. Although its porosity may range from high to low, tufa and travertine can be less permeable than alluvium.

Cross Section W-W' extends west to east along the northern portion of the CPO site and is based on an interpolation of logs for four bedrock wells (MW05-1, MW05-2, and MW-10) and one alluvial well (A-1). The thickness of the alluvial deposits increases from west to east from approximately 8 feet at MW05-1 to

greater than 65 feet at A-1 and is likely due to erosional processes at the base of the Aspen Range. Well A-1 is screened within the overburden material and has relatively unvarying groundwater elevation.

Figure 5 presents geologic cross sections X-X' and Y-Y', both of which extend west to east from Tailing Pond 2 and Gypstack 3, respectively. Each cross section represents the geology over a distance of approximately 6,000 feet. Section X-X' is based on an interpolation from logs for two monitoring wells (MW-05, and MW05-3) while section Y-Y' is based on an interpolation of logs for four monitoring wells (A-4, A-3, A-11 and A-12). The general geology in this area is the same as the north portion of the site. A thin layer of alluvium overlies basalt bedrock. Cross section Y-Y' intersects the fault feature located on the west portion of the area which is approximately mid way between Tailing Pond 3 and State Road 34.

Figure 6 presents geologic cross section Z-Z'. This section is oriented southwest to northeast across the south portion of the CPO site. It extends a distance of approximately 7,500 feet and is represented by wells A-10, MWA, NW-9, MWB, and NW-7. Of note is the presence of basalt bedrock at wells A-10, NW-9 and MWB while well NW-7 is outside the valley within the weathered limestone and sandstone associated with the Aspen Range. This is consistent with the regional geology which indicates the basalt layer thins to the east and transitions at the limits of the valley to the sandstone and limestone associated with the Aspen Range. Thus, groundwater quality in well NW-7 is likely representative of background. Also of note is the overlap in screen intervals of pumping well NW-9 and monitoring well MWB. The upper screen interval in NW-9 is from approximately 6,120 to 6,060 feet NGVD and that for MWB is approximately from 6,100 to 6,040 feet NGVD.

2.2 LOCAL HYDROGEOLOGY

The predominant water bearing unit in the region is confined and semi-confined groundwater present in horizontal cinder layers and weathered basalt interflow zones; and vertically fractured and fault shear zones. Secondarily perched water is present within the overburden material. Only two monitoring wells (A-1 and A-2) are screened within the overburden material. Groundwater levels in these two wells indicate that perched groundwater acts independently of the bedrock aquifer.

The basalt aquifer is the most extensive groundwater bearing unit in the valley. The sandstone and limestone aquifers at the valley transition also are very productive groundwater resources. Between 1999 and 2008, the depth to water for monitoring wells constructed in the basalt bedrock aquifer ranged from approximately 13 to 190 feet below ground surface (bgs). The wide range of depth to groundwater is explained by several factors including:

- The groundwater gradient is steeper than the topographical slope
- The wells are screened at different intervals
- There may be differences in degree of fracturing, likely increasing with proximity to faults
- Influence of pumping wells.

The regional groundwater gradient is to the west-southwest; a typical groundwater elevation contour map is presented in Appendix A (Engineers, Inc., 2007). Recharge of groundwater to the basalt aquifer may originate from the limestone and sandstone aquifer (Aspen Range) to the east, as well as surface water

infiltration into faulted and fractured rock. Annual precipitation averages approximately 16 inches (NCDC, 2002). Typically, the monitoring wells on the CPO site have higher groundwater elevations in the early summer than in the fall, likely caused by spring/summer rainfall and snowmelt.

The groundwater level in bedrock well A-12, located in the vicinity of the fault, is higher than bedrock monitoring well A-11 which is located approximately 300 feet to the east. Both wells are screened over similar intervals (6,050 to 6,000 feet NGVD). Given the overall west-southwest local groundwater gradient, the water level in well A-11 would be expected to be higher than well A-12. The higher water level in well A-12 indicates that the fault zone receives higher recharge than the surrounding formation and likely is a preferential pathway for surface water infiltration and groundwater flow. WSP's review of the regional and local geology indicates that well A-12 is in the same aquifer as the other local wells, not in a different aquifer as Bio-West asserted in their report.

CPO pumps groundwater from numerous wells, including but not limited to: NW-5, NW-7, NW-9 and NW-10. NW-7 and NW-9 are located south of the CPO plant, NW-10 is north of Tailings Pond 4, and NW-5 is south east of Tailings Pond #2. NW-5 is screened from 50 to 260 feet and its sustained yield was reported at 2,300 gallons per minute (gpm) with reported drawdown of 2 feet after 181 hours. NW-9 is screened over four intervals; from 40 to 100, 120 to 140, 180 to 220 and 235 to 255 feet bgs. The sustained yield from this well was reported above 1,600 gpm and drawdown was 7 feet. NW-10 is screened over four intervals in the basalt: from 65 to 85, 115 to 145, 265 to 295, and 315 to 335 feet bgs. The sustained yield from this well was reported at 1,500 gpm and drawdown was 30 feet. At these extraction rates in these wells, drawdown was less than 11 percent of the water column. Artesian flow has been reported in NW-10. Well NW-7 is screened in the sandstone and limestone aquifer from 104 feet to 465 feet. The static water level in well NW-7 was reported at 80 feet bgs following drilling. The sustained yield from NW-7 was reported above 800 gpm (no drawdown data was provided). One of CPO's water rights allow for withdraw volumes of up to 1,500 gpm from a combination of three points of diversion, whereas the Torgesen Ranch well is allowed only 18 gpm (IDWR records). The allowed pumping rate of the Torgesen Ranch well, located in similar geological conditions as NW-5 and NW-10, is not likely to cause significant drawdown and would have little influence on the natural groundwater flow patterns, particularly compared with that caused by the CPO facility wells.

A review of water level data from January 1999 through June 2008 (Table 1) indicates a similar fluctuation pattern among a majority of wells screened in the basalt aquifer (Figure 7). Exceptions to this, shown on Figure 8, include well A-10 where levels remained relatively stable and are unlike any other basalt wells. A-10 is located approximately 2,500 feet from the nearest known pumping wells (JRS-10 and the Lowry well) and is the only CPO monitoring well located west of the fault. Other exceptions are likely influenced by nearby pumping wells.

3 Evaluation of Nitrogen and Nitrate Distribution In Groundwater

WSP evaluated groundwater quality data collected between 2001 and June 2008 for 28 wells located on and around the CPO site, including the Torgesen Ranch well. In particular, the distribution of nitrogen and nitrate was evaluated in conjunction with the local hydrogeologic framework to ascertain whether the concentrations found in the Torgesen Ranch well could potentially be associated with CPO's manufacturing operations as asserted by Bio-West (2008). In addition, WSP reviewed groundwater quality data for other constituents including phosphorous and sulfate, as these may be associated with raw materials, products, and /or by-products of CPO's manufacturing operations and could be potential indicators of site-related impacts. The discussion primarily references the June 2008 sampling data; however, all available historical sampling data was reviewed and considered. WSP notes that the historical sampling data for individual wells is consistent, thus the focus on the 2008 data is representative of data available since 2001.

3.1 GROUNDWATER EVALUATION

Wells on the west portion of the CPO site include, from north to south, MW-05-4, MW05-3, MW05-5, NW-5, Torgesen Ranch well, A-4, A-3, A-11, A-12, A-5, A-6, A-8, A-7, A-9A, JRS-10, A-10, and the Lowry well (Figure 2). Figures 9 and 10 show the concentrations of nitrate and total nitrogen detected in all wells for which data are available.

The data evaluated for the 28 wells and groundwater flow pathways do not support the assertion by Bio-West that the CPO site is the source of nitrate and total nitrogen levels found in the Torgesen well. Groundwater flow at the CPO site is to the west southwest. In the area to the west of gypstacks 1, 2, and 3, the extent of nitrate and total nitrogen concentrations in groundwater is limited in extent. To the west of gypstacks 1, 2, and 3 nitrate and or total nitrogen have been detected above 10 mg/l only in wells A-4, A-6, A-7, A-8 and A-9A. These wells are all screened in the upper portion of the basalt aquifer, generally between 100 and 200 feet bgs (Figures 9 and 10). Further to the west of gypstacks 1, 2, and 3 are wells A-11, A-12, and the Torgesen well. Well A-11 is just to the east of the fault zone and is screened in the upper portion of the aquifer. Nitrate and total nitrogen levels in this well are less than the concentrations found in the Torgesen well. Well A-12 and the Torgesen well are located in the fault zone and are also screened in the upper portion of the aquifer. The fault is a preferential pathway for surface water infiltration and groundwater flow. Constituents in groundwater that may flow from the CPO site into the fault zone are diluted with the groundwater in the fault zone.

The groundwater flow pathway in the fault zone, evidenced by the hydraulic gradient, is from well A-12 toward the Torgesen Ranch well. Concentrations of nitrate and total nitrogen reported in well A-12 are consistently lower than the levels found in the Torgesen well. If the CPO site were the source of nitrate and total nitrogen found in the Torgesen Ranch well, the concentrations in well A-12 would be of the same order or higher. However, data show that the concentrations of nitrate and total nitrogen in well A-12 are substantially less than those in the Torgesen Ranch well.

As shown on Table 2, the nitrate and total nitrogen concentration (33.67 mg/l) reported in June 2008 for the Torgesen Ranch well is anomalously elevated, when compared to monitoring wells located within a

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3,000-foot radius[2] (monitoring wells A-3, A-4, A-11, A-12, MW05-3, MW-05-4, MW05-5, and supply well NW-5). The sampling data from 2001 to 2008 shows that nitrate and total nitrogen concentrations in the Torgesen Ranch well were above 10 mg/l in 12 of 13 sampling events with the average being 31.7 mg/l. In June 2008, the total nitrogen concentration in the Torgesen Ranch well was 23 times greater than the concentration in well A-12 (the nearest well in the fault zone) and 13 times greater than the MW05 series wells to the north and northeast. Furthermore, the Torgesen Ranch well had 26, 1.4, 10, and 1.8 times greater total nitrogen than monitoring wells NW-5, A-11, A-3, and A-4, respectively. NW-5, A-3, A-4 and A-11 are located between the CPO facility and the Torgesen Ranch well, and would be expected to contain higher total nitrogen than the Torgesen Ranch well, if the CPO facility was the source of nitrogen in all five wells.

Appendix B presents Bio-West's interpretation of the local nitrate and nitrogen conditions around the CPO facility and the Torgesen Ranch. Represented are data from 8 wells[3] depicting a nitrogen plume more than 10,000 feet long beginning at the southeastern portion of the CPO site and extending to approximately 2,000 feet northwest of the Torgesen Ranch well. This interpretation omits data from other monitoring wells located between the southeastern portion of the CPO site and the Torgesen Ranch well that have lower concentrations of nitrate and nitrogen than found in the Torgesen Ranch well.

By including all of the relevant data, it is evident that nitrogen and nitrate concentrations in the southeastern portion of the CPO site are limited in extent, as shown on Figures 9 and 10. Nitrate and total nitrogen concentrations near the gypstacks are not continuous with the groundwater conditions south of the manufacturing operation. The data also demonstrate that the extent of constituent impacts in groundwater to the west of the gypstacks is limited in extent. Between these impacted areas and the fault zone or the Torgesen Ranch well, there are several wells with lower nitrate and total nitrogen concentrations than the concentrations detected in both the Torgesen Ranch well to the west and the impacted areas near the gypstacks to the east. These intermediate data points demonstrate that impacted groundwater near the gypstacks has not migrated to the fault zone or the Torgesen Ranch well. If the scenario proposed by Bio-West was accurate, the concentrations in these intermediate wells would be higher than those in the Torgesen Ranch well. However, the data indicate that the elevated concentrations in the Torgesen Ranch well are isolated from the impacted groundwater at the CPO facility.

WSP evaluated phosphorous and sulfate concentrations detected in the 28 monitoring and production wells, to confirm our interpretation of groundwater conditions. Phosphorous and sulfate may be associated with raw materials, products, and /or by-products of the manufacturing operations. The June 2008 data for these constituents are presented in Figures 11 and 12. These show a pattern consistent with that identified for nitrate and total nitrogen. This further supports WSP's interpretation of groundwater flow conditions and our conclusion that the CPO operations are not the source of nitrate and total nitrogen in the Torgesen Ranch well.

In summary, the data evaluated for the 28 wells and groundwater flow pathways do not support the assertion by Bio-West that the CPO site is the source of nitrate and total nitrogen levels found in the

[2] Based on review of geology, the groundwater pathway (perpendicular and parallel to the western fault) may be a more appropriate measure of distance

[3] MW-A, NW-9, JRS-8, JRS-10, A-8, A-6, A-11, and the Torgesen Ranch well

Torgesen well. Groundwater flow at the CPO site is to the west southwest. In the area to the west of gypstacks 1, 2, and 3 nitrate and total nitrogen concentrations in groundwater decrease in the downgradient direction. This same trend is apparent in the manufacturing area where nitrate and total nitrogen concentrations decrease to the west-southwest. The fault to the west of the CPO site is a preferential pathway for surface water infiltration and groundwater flow. Well A-12 is located in the fault zone and is upgradient of the Torgesen well. Nitrate and total nitrogen concentrations in A-12 are substantially less than found in the Torgesen well. As evidenced by the available data, the Torgesen well has not been impacted by operations at the CPO site.

3.2 OTHER SOURCES OF NITROGEN AND NITRATE

In general, there are three[4] major nitrogen measurements of interest in the environment: ammonia, nitrate and total Kjeldahl nitrogen (TKN). Of the three, nitrate is the most significant with respect to compliance with Idaho groundwater quality standards. The factors which influence nitrate in groundwater are the land application of ammonia/ammonium or nitrogen from organic matter (represented by TKN) which oxidize or mineralize into nitrate; or the land application of nitrate directly, a potentially large fraction of which may leach into groundwater. The nitrogen which may potentially form nitrate can be estimated by summing nitrate and TKN concentrations, which is designated as total nitrogen. The major parts of the nitrogen cycle are depicted in Appendix C.

As discussed in Section 2.2 of this report, there is evidence that the fault zone where well A-12 and the Torgesen Ranch well are located is a preferential pathway for surface water infiltration and groundwater recharge. The Torgesen Ranch property receives surface water drainage from north of the CPO site, including from a spring (Woodall Spring) referred to in the EPA's On Scene Coordinator pollution report for the 2006 release (EPA, 2007). Woodall Spring reportedly drains into the area labeled "Pond A" on Figure 2, after traversing approximately 3 miles of rangeland or livestock ranch (USGS, 1982). This surface drainage feature (including the area labeled "Pond A" on Figure 2) may transport ammonium, organic nitrogen, and/or nitrate from elsewhere in the watershed which infiltrates with the surface water into groundwater connected to the Torgesen Ranch well and well A-11.

According to IDWR records, a well was constructed on the Torgesen Ranch property around 1900. In 1970, the well was replaced by the current Torgesen Ranch well. No information was available on the construction of the 1900 well, how it was closed or abandoned, and whether it may be a conduit for nitrogen and other contaminants on the Torgesen Ranch.

[4] A fourth common measurement (nitrite) is problematic because available methods are semi-quantitative, and processes in the environment which convert ammonia to nitrate produce nitrite only as an intermediary which is quickly converted to nitrate. The nitrogen from ammonia is included in the measurement of TKN.

4 Conclusions

Based on review of the regional and local geology, groundwater occurrence, and chemical data presented in this report, WSP concludes that the operations at the CPO site are not the source of the concentrations of nitrate and total nitrogen in the Torgesen Ranch well.

WSP's evaluation demonstrates the following:

- Although there are a series of basalt/lava flows comprising the basalt aquifer, they are all hydraulically connected and are not separate units as asserted by Bio-West.
- Groundwater flow is to the west-southwest. However, Bio-West's interpretation of the nitrate and total nitrogen distribution pattern is not consistent with the documented groundwater flow pattern.
- The effects of drawdown caused by pumping 18 gpm from the Torgesen Ranch well are minimal, contrary to Bio-West's assertion.
- The distribution of nitrate and total nitrogen concentrations in groundwater west of the gypstacks is limited in extent and decreases in the downgradient direction.
- Although the fault zone is a preferential flow pathway, the data demonstrate that elevated nitrate and total nitrogen concentrations have not migrated from the CPO site to the Torgesen Ranch well.
- The likely sources of nitrogen found in the Torgesen Ranch well include use of the land as a livestock pasture, septic systems, and recharge that occurs within the fault zone from other upland areas.

WSP's findings and conclusions are consistent with Enercon's Ecological Risk Assessment (Enercon, 2008) and EPA's site inspection report (EPA, 1994):

- the December 2006 release from the northern gypstack is not a significant source of potential impact to the bedrock aquifer, and
- the CPO operations are not a significant source of nitrogen contamination in the Torgesen Ranch well.

NUW 005702

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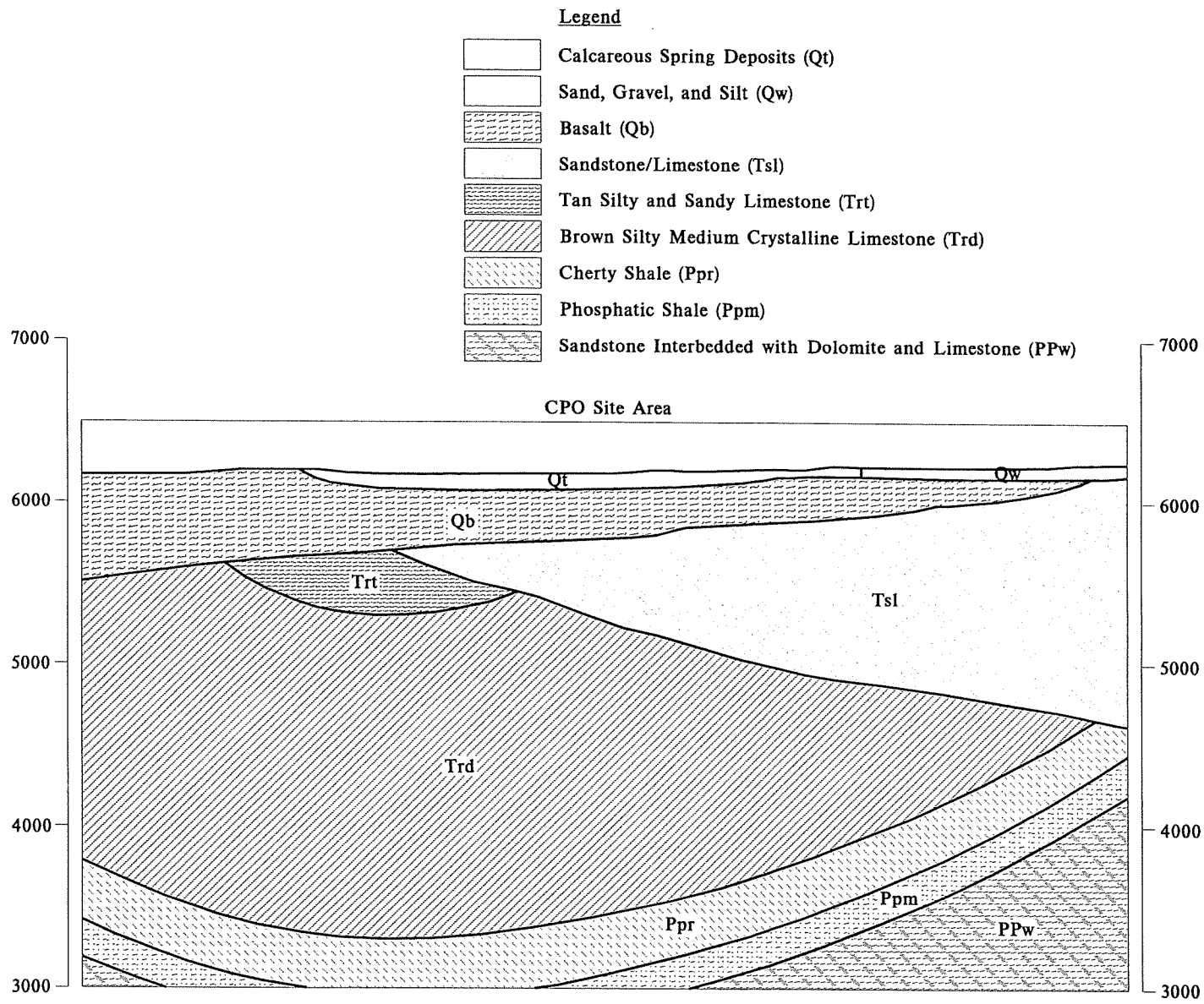
Figures



REFERENCE: USGS MAP I-557 (1969) GEOLOGIC MAP OF THE SODA SPRINGS QUADRANGLE, SOUTHEASTERN IDAHO.

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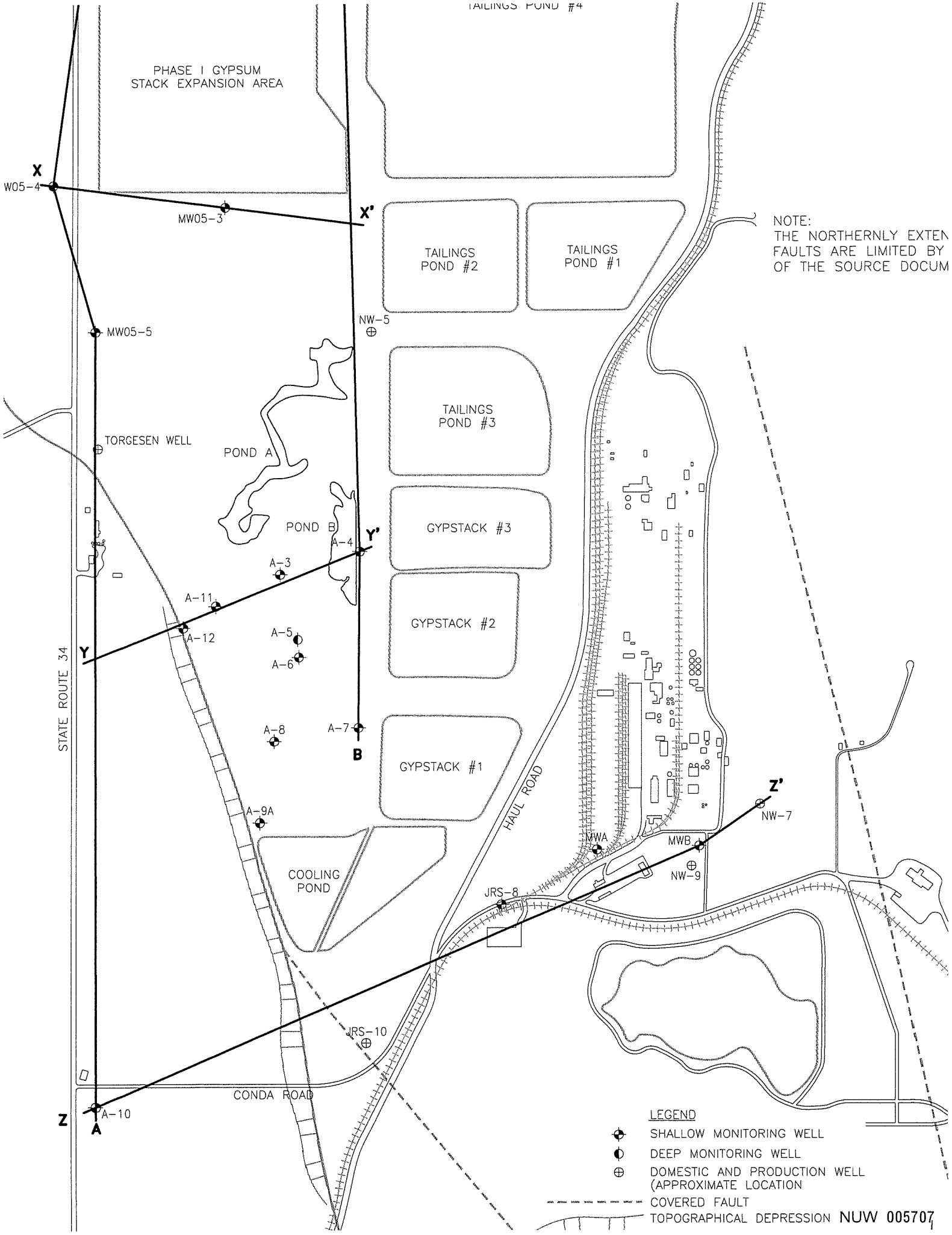
FIGURE 1

GENERALIZED GEOLOGIC CROSS-SECTION

CPO
SODA SPRINGS, IDAHO

Drawn By:
Checked:
Approved:
DWG Name: 08024501

NUW 005706


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
MW05-3
X'
TAILINGS
POND #2
TAILINGS
POND #1
NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
A-4
Y'
GYPSTACK #3
A-3
A-11
A-12
GYPSTACK #2
A-5
A-6
Y
STATE ROUTE 34
A-8
A-7
B
GYPSTACK #1
HAUL ROAD
Z'
NW-7
A-9A
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MWB
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COOLING
POND
JRS-8
JRS-10
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LEGEND
SHALLOW MONITORING WELL
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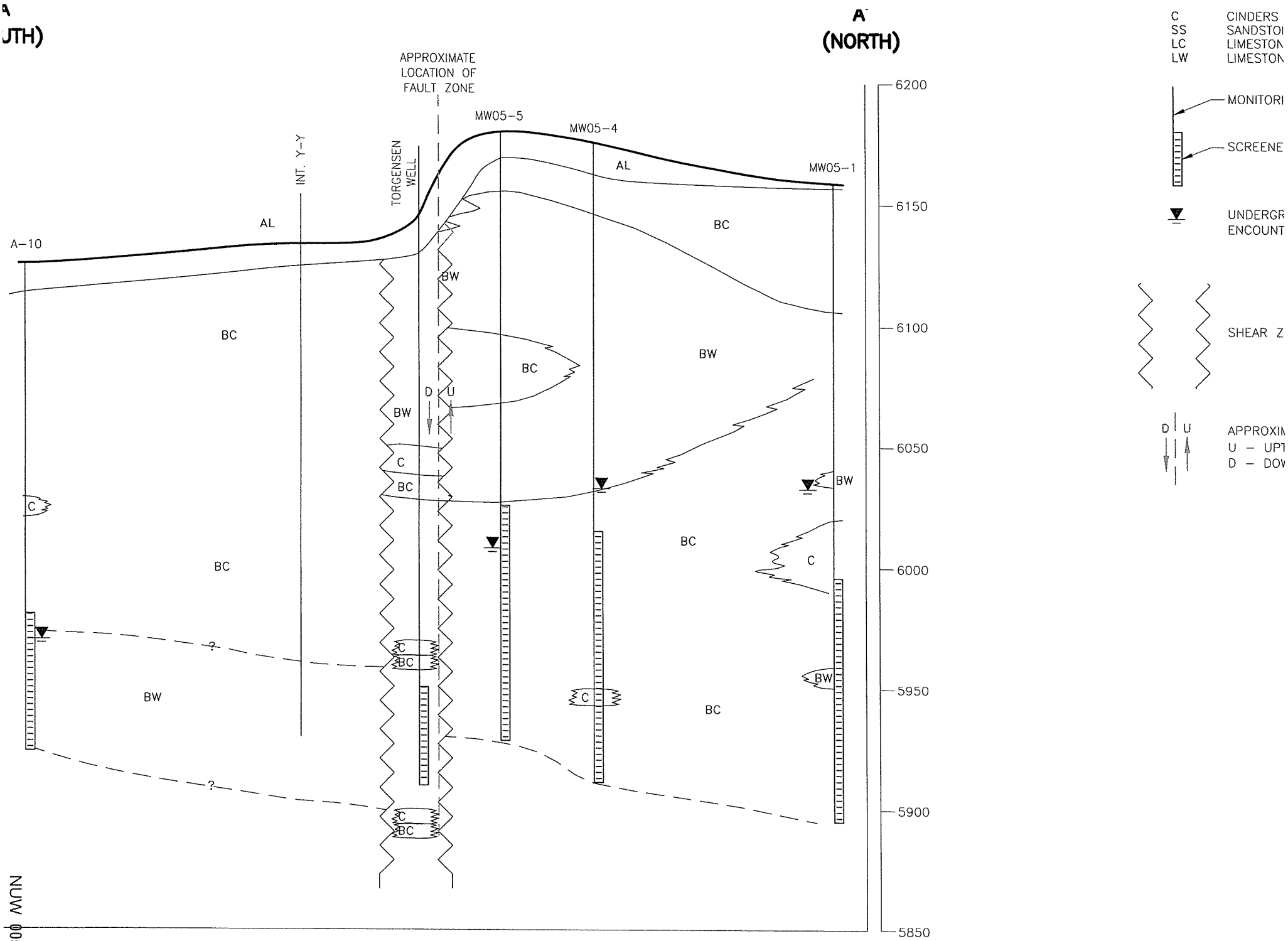
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION


A
UTH)
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(NORTH)
APPROXIMATE LOCATION OF FAULT ZONE
INT. Y-Y
TORGENSEN WELL
MW05-5
MW05-4
MW05-1
A-10
AL
BC
BW
C
D
U
?
6200
6150
6100
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6000
5950
5900
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C CINDERS
SS SANDSTOI
LC LIMESTON
LW LIMESTON
MONITORI
SCREENE
UNDERGR
ENCOUNT
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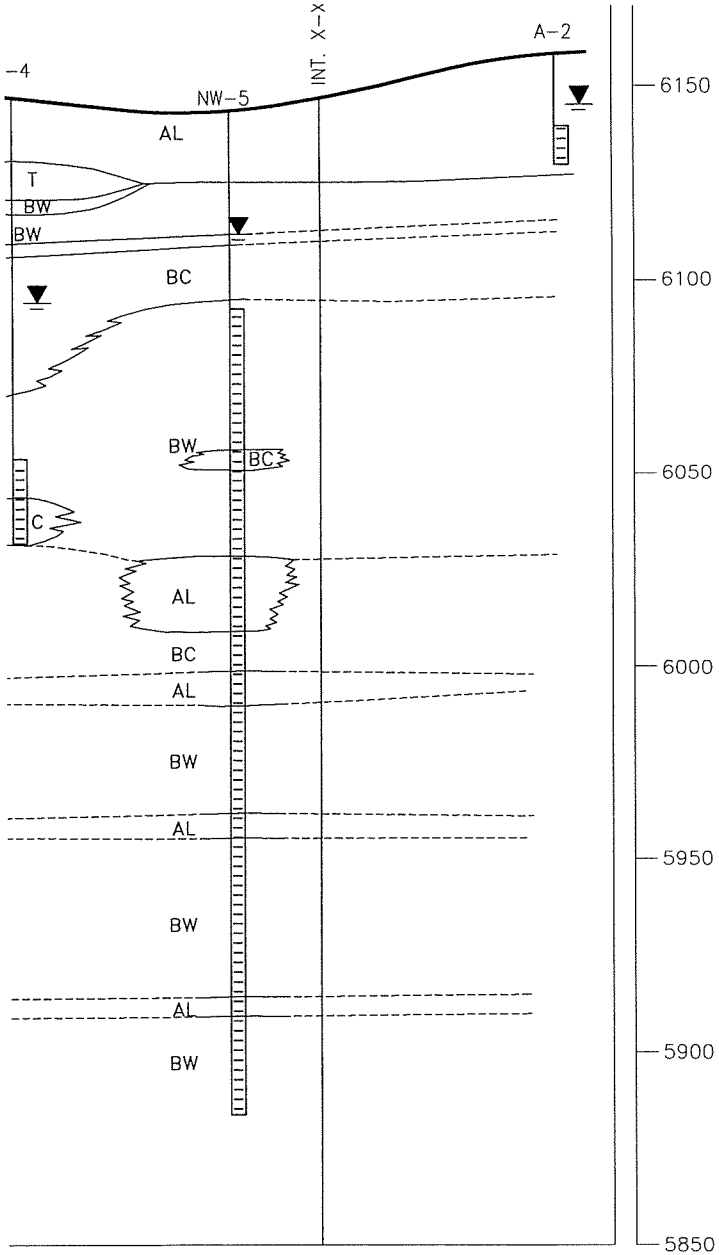
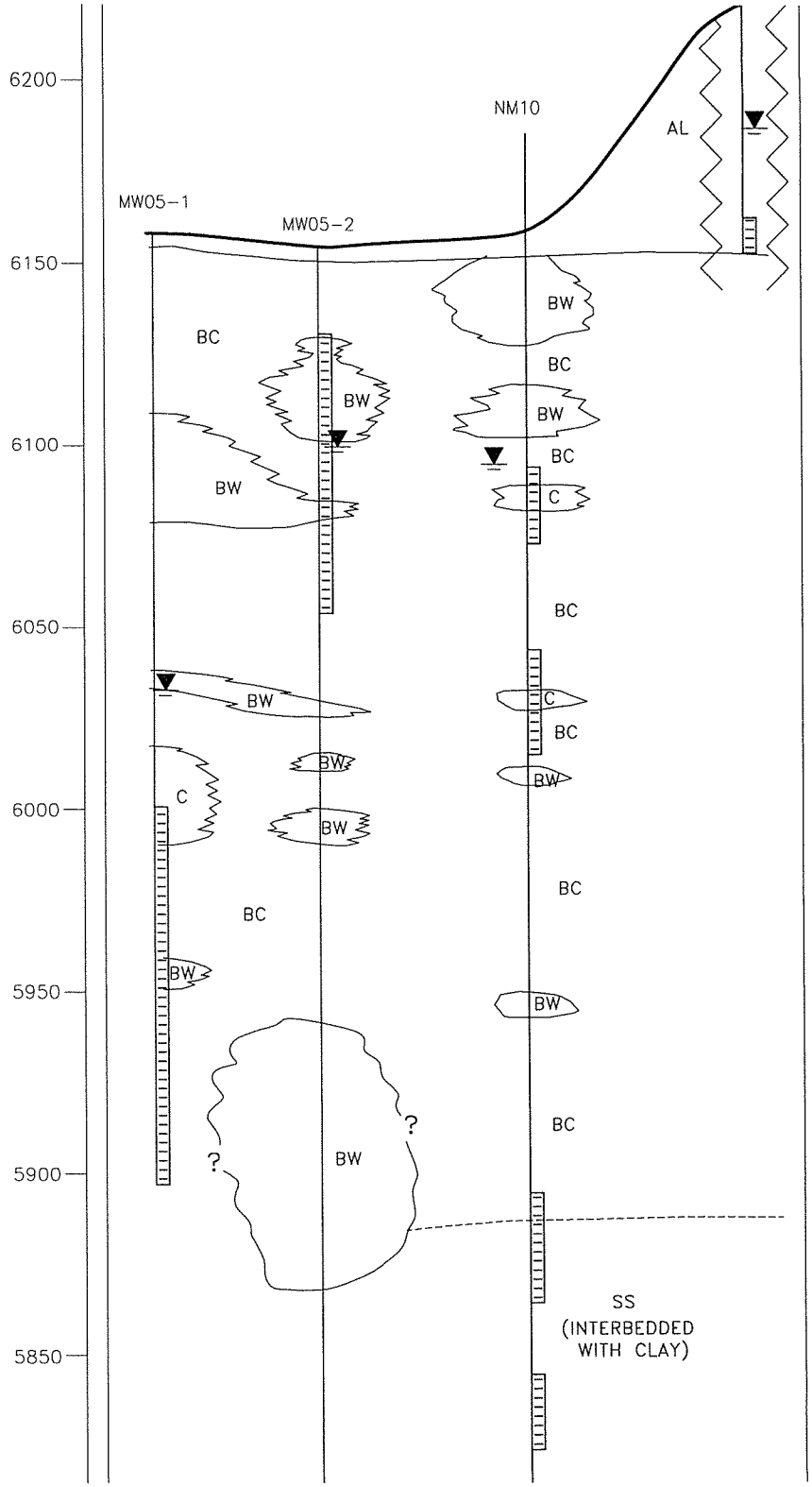
D – DOV

NUW 005708



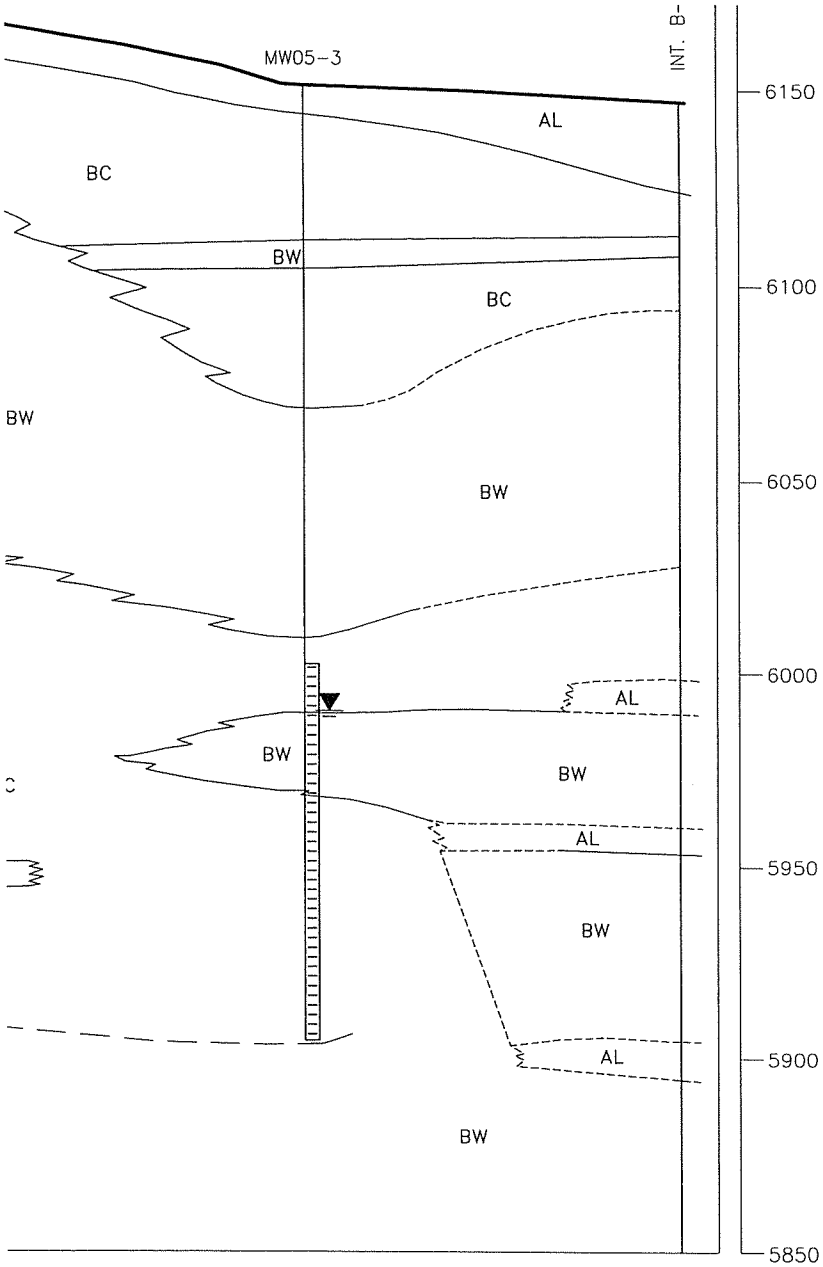


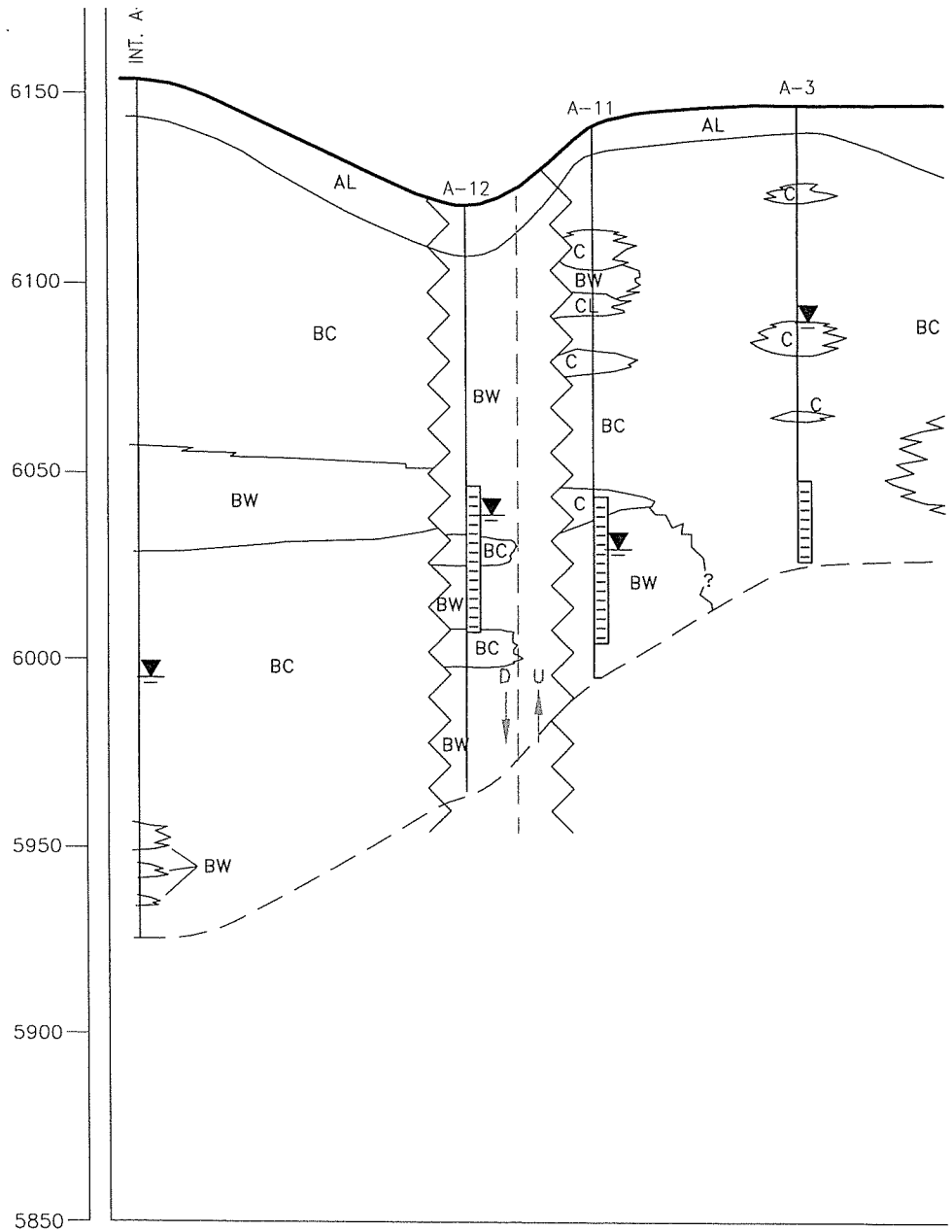
LEGEND

AL	ALLUVIUM
BC	BASALT, COMPETENT
BW	BASALT, WEATHERED
C	CINDERS (MAY INCLUDE ASH SAND)
SS	SANDSTONE
LC	LIMESTONE, COMPETENT
LW	LIMESTONE, WEATHERED
T	TUFF, CALCAREOUS
	MONITORING WELL

SHEAR ZONE

NUW 005709





LEGEND

AL	ALLUVIUM
BC	BASALT, COMPETENT
BW	BASALT, WEATHERED
C	CINDERS (MAY INCLUDE ASH SAND)
SS	SANDSTONE
LC	LIMESTONE, COMPETENT
LW	LIMESTONE, WEATHERED

SHEAR ZONE

MONITORING WELL

NUW 005710

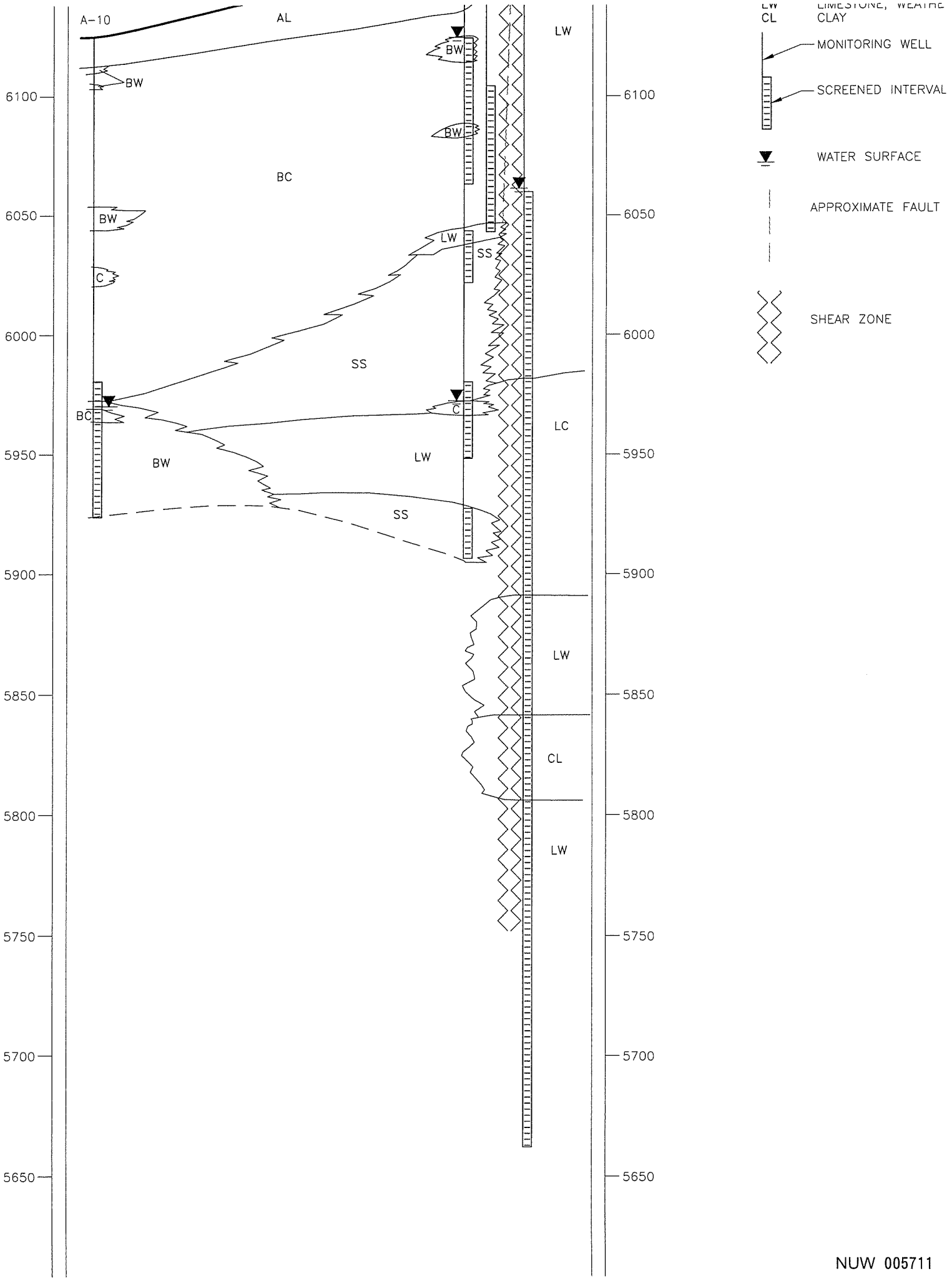
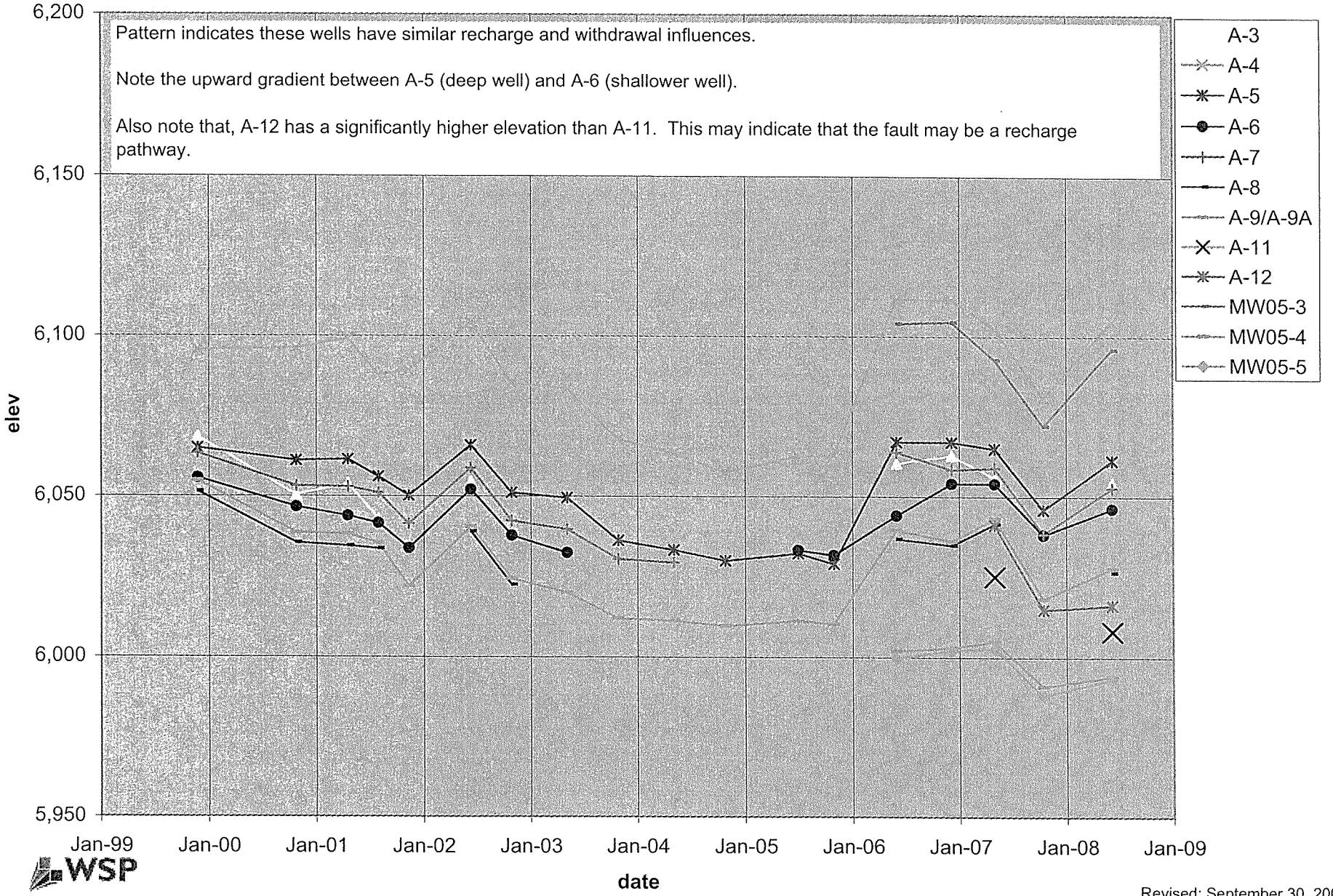

A-10
AL
BW
BC
C
SS
LW
LC
CL
6100
6050
6000
5950
5900
5850
5800
5750
5700
5650
LW LIMESTONE, WEATHE
CL CLAY
MONITORING WELL
SCREENED INTERVAL
WATER SURFACE
APPROXIMATE FAULT
SHEAR ZONE

Figure 7
Basalt Wells Predominant Pattern of Water Levels
Nu-West Industries CPO Facility
Conda, Idaho



WSP

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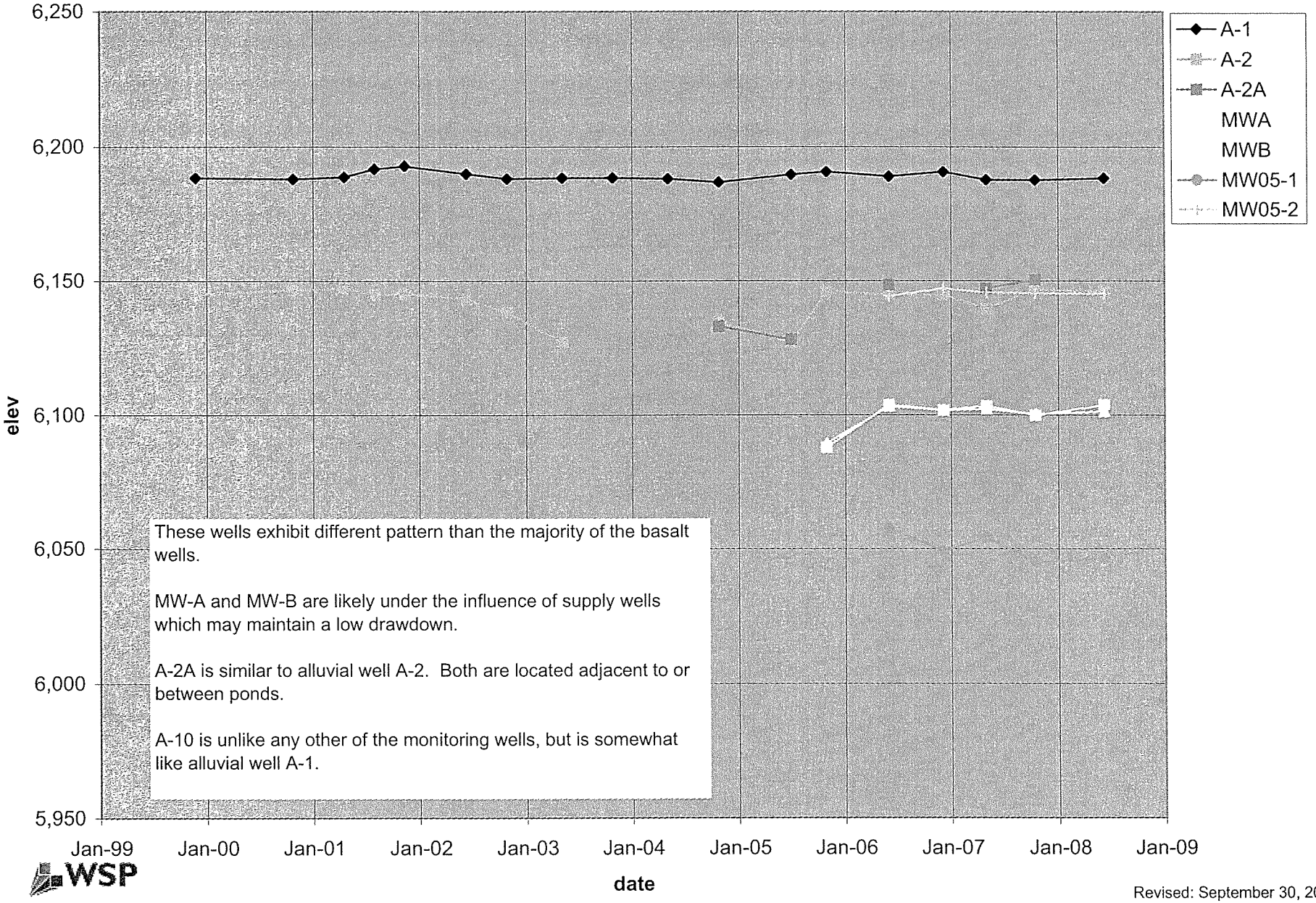
Revised: September 30, 2008

NUW 005712

Figure 8
Basalt Wells Other Patterns of Water Levels
Nu-West Industries CPO Facility
Conda, Idaho



WSP

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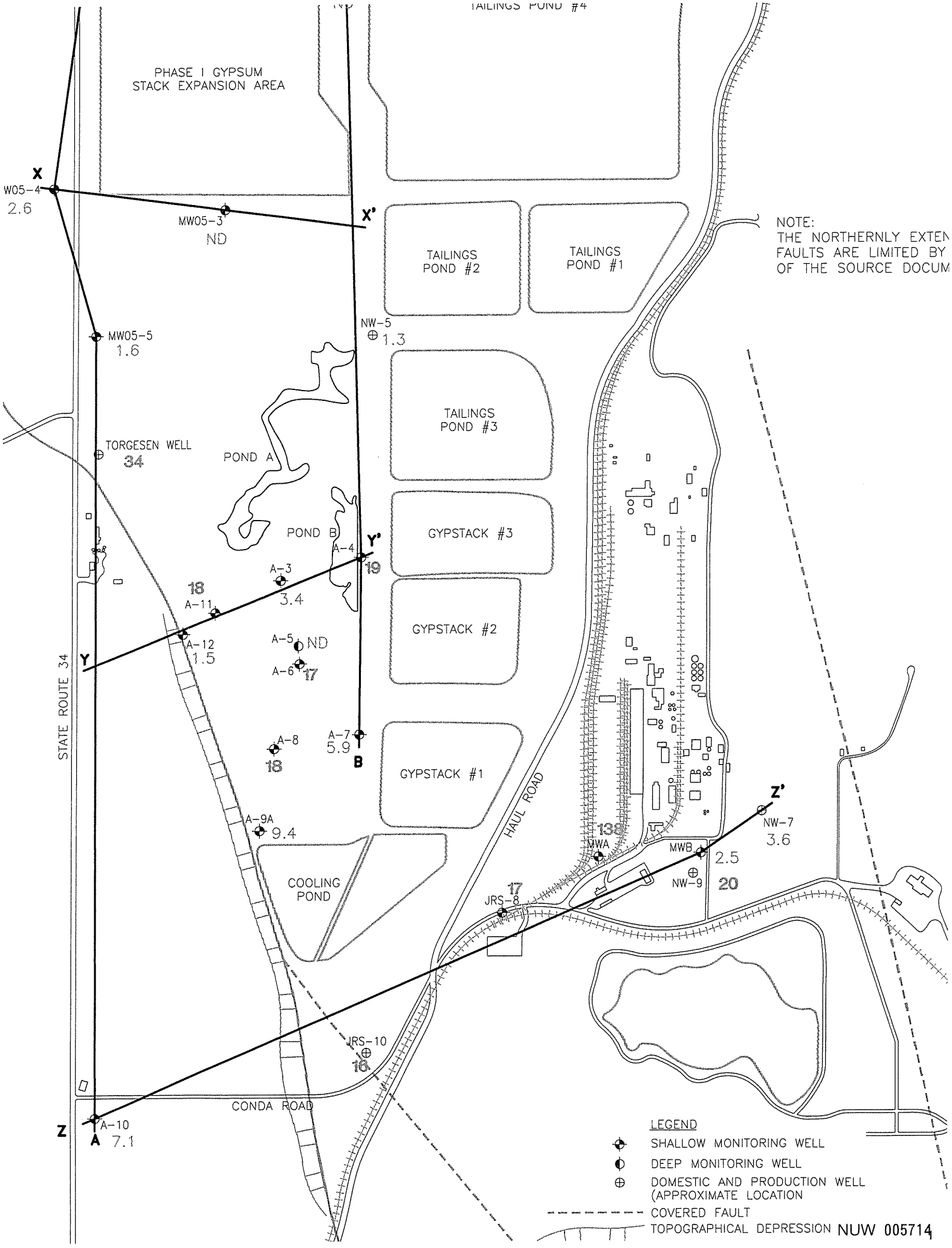
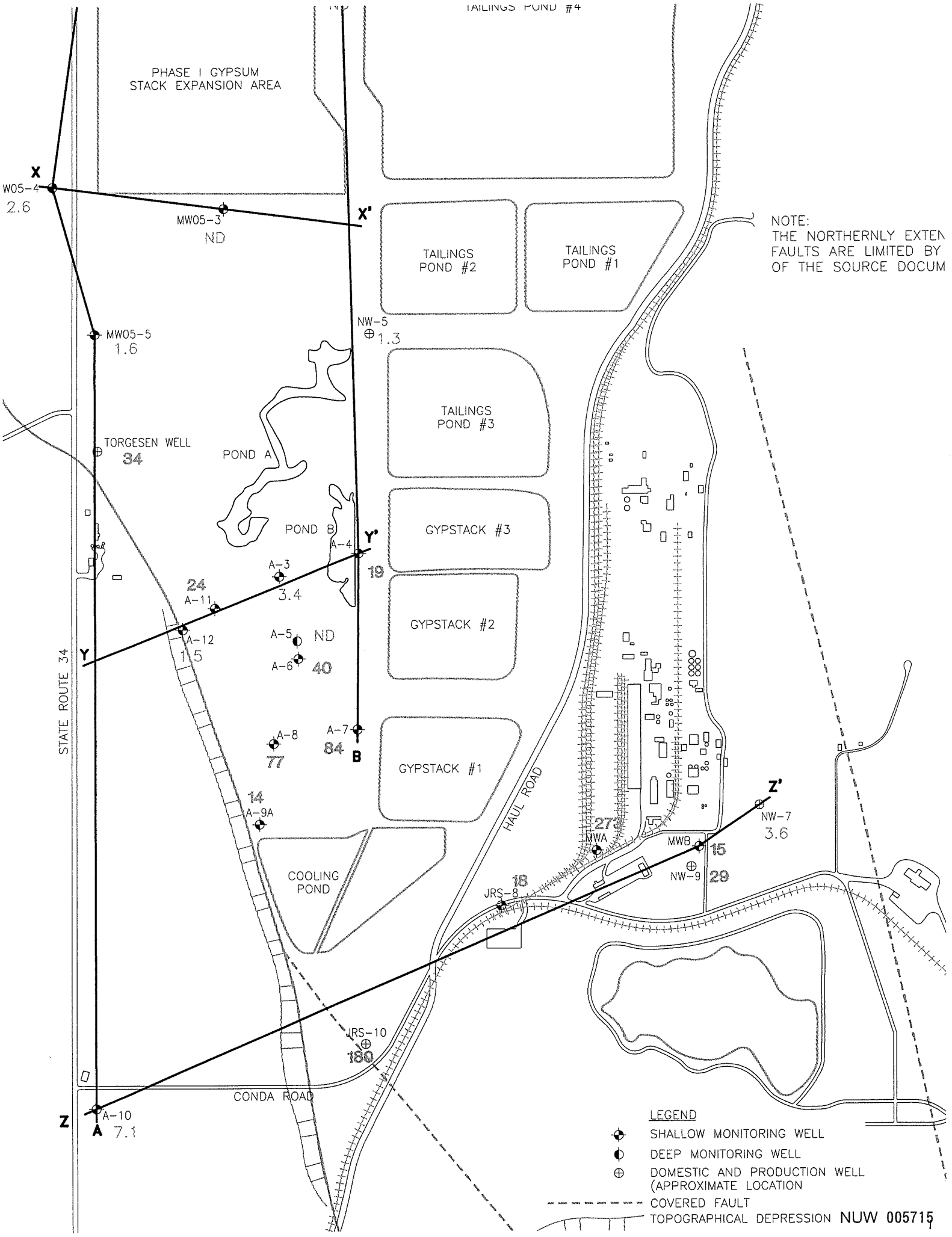
Revised: September 30, 2008

NUW 005713


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
2.6
MW05-3
ND
X'
TAILINGS
POND #2
TAILINGS
POND #1
NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
1.6
NW-5
1.3
TAILINGS
POND #3
TORGESEN WELL
34
POND A
POND B
GYPSTACK #3
Y'
A-4
19
A-3
3.4
18
A-11
A-12
1.5
GYPSTACK #2
A-5
ND
Y
A-6
17
STATE ROUTE 34
A-8
18
A-7
5.9
B
GYPSTACK #1
HAUL ROAD
Z'
NW-7
3.6
A-9A
9.4
138
MWA
MWB
2.5
NW-9
20
COOLING
POND
17
JRS-8
JRS-10
16
CONDA ROAD
Z
A-10
A
7.1
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
2.6
MW05-3
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NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
1.6
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TAILINGS
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TORGESEN WELL
34
POND A
POND B
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A-3
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A-11
A-12
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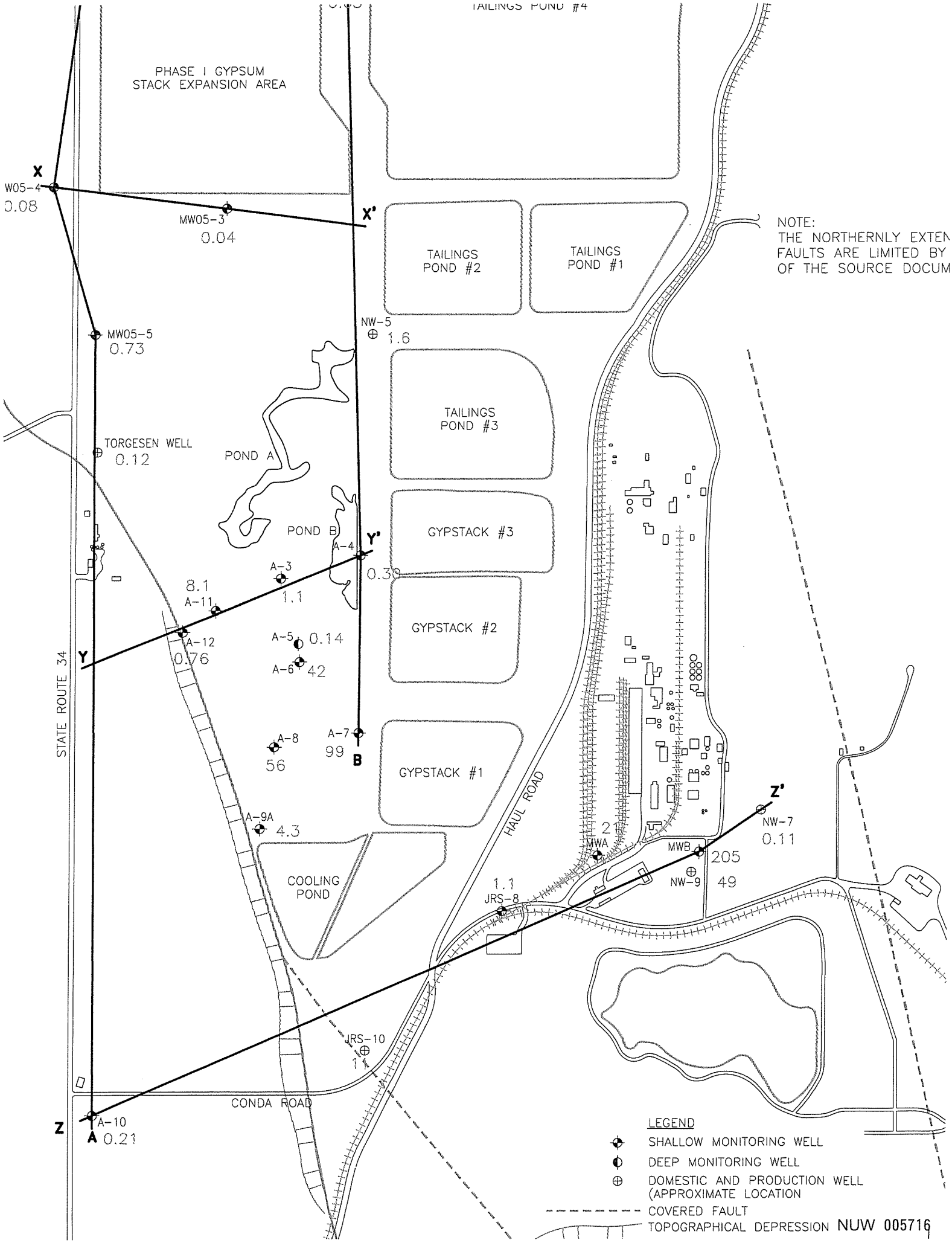
A-5
ND
A-6
40
GYPSTACK #2
STATE ROUTE 34
A-8
77
A-7
84
B
GYPSTACK #1
HAUL ROAD
14
A-9A
Z'
NW-7
3.6
273
MWA
MWB
15
NW-9
29
COOLING
POND
18
JRS-8
JRS-10
180
CONDA ROAD
Z
A-10
A
7.1
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
0.08
MW05-3
0.04
X'
TAILINGS
POND #2
TAILINGS
POND #1
NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
0.73
NW-5
1.6
TAILINGS
POND #3
TORGESEN WELL
0.12
POND A
POND B
Y'
A-4
0.30
GYPSTACK #3
A-3
1.1
8.1
A-11
A-12
0.76
Y
A-5
0.14
A-6
42
GYPSTACK #2
STATE ROUTE 34
A-8
56
A-7
99
B
GYPSTACK #1
HAUL ROAD
Z'
NW-7
0.11
A-9A
4.3
21
MWA
MWB
205
NW-9
49
COOLING
POND
1.1
JRS-8
JRS-10
1
CONDA ROAD
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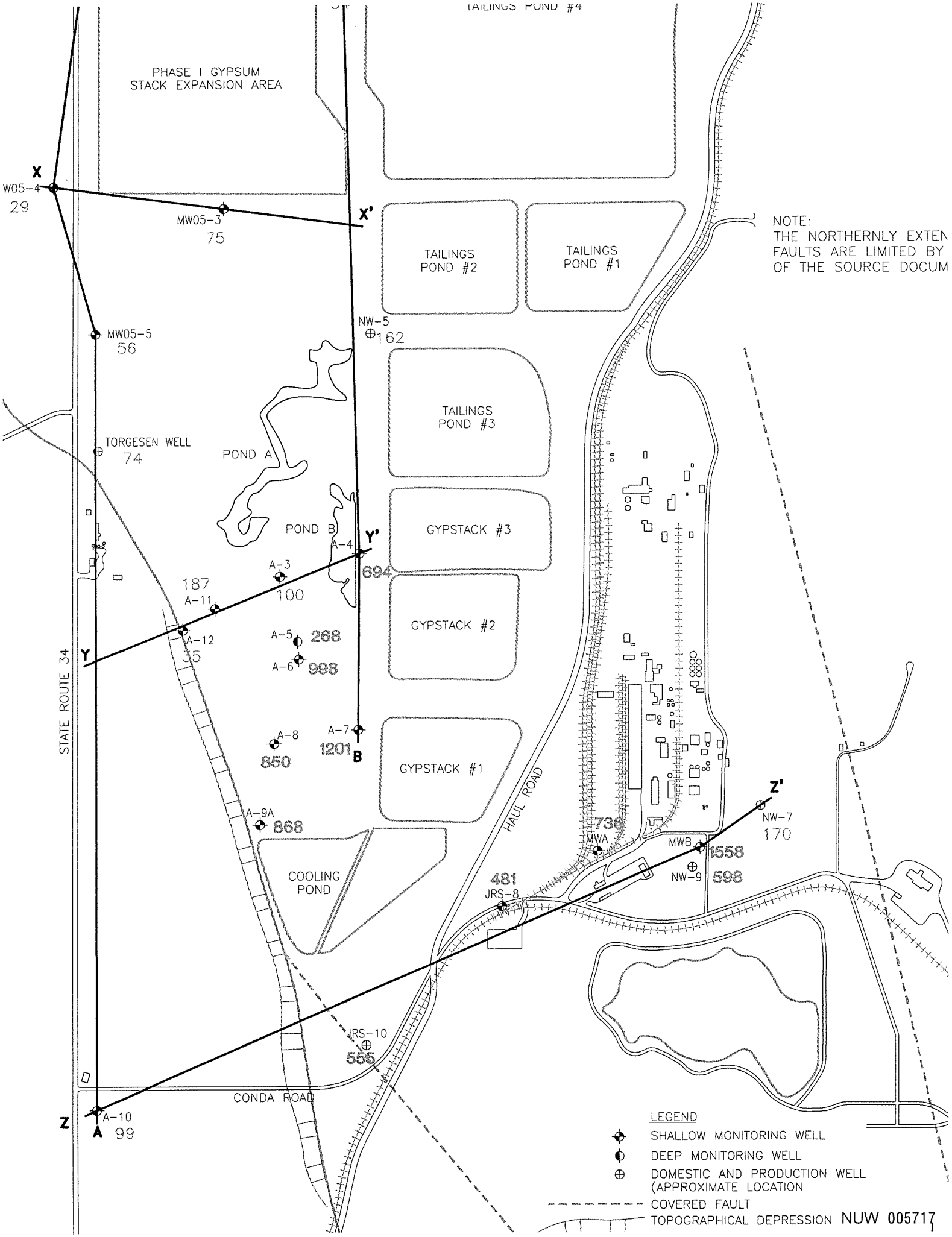
A-10
A
0.21
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION

NUW 005716


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
29
MW05-3
75
X'
TAILINGS
POND #2
TAILINGS
POND #1
NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
56
NW-5
162
TAILINGS
POND #3
TORGESEN WELL
74
POND A
POND B
GYPSTACK #3
Y'
A-4
694
A-3
100
187
A-11
GYPSTACK #2
A-12
35
A-5
268
Y
A-6
998
STATE ROUTE 34
A-8
850
A-7
1201
B
GYPSTACK #1
HAUL ROAD
Z'
A-9A
868
736
MWA
MWB
NW-7
170
1558
NW-9
598
COOLING
POND
481
JRS-8
JRS-10
555
CONDA ROAD
Z
A-10
A
99
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION

Tables

Water Level Collection Date and Water Elevation (feet NGVD)

Nov-99	Oct-00	Apr-01	Jul-01	Nov-01	Jun-02	Oct-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46	6188.15	6186.81	6189.7	6190.7	6189.0	6190.7
6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09			6,134.7	6127.0	6146.0	6144.9	6144.8
										6,133.00	6,128.00		6148.4	
6,068.35	6,050.29	6,053.88	6,042.97		6,054.70								6060.4	6062.8
6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68	6,063.33	6,057.48	6062.4	6062.8	6111.5	6111.5
6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31	6,033.40	6,030.12	6032.4	6029.2	6067.0	6066.9
6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56				6033.4	6031.9	6044.2	6054.2
6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56	6,029.60				6063.8	6058.5
6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65							6037.0	6035.0
6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09	6,011.37	6,009.79	6011.4	6010.4	6039.7	6036.3
						5,985.16	5,986.58	5983.11	5,985.20	5,982.45	5988.3	5983.3	5992.0	5988.3
													6057.6	6049.2
													6144.3	6147
													6104	6104.5
													6002	6003
													5999.8	6002.2
												6087.7	6103.8	6101.8
												6089.4	6103.2	6101.7

Spring 2008 Assessment, Nu-West Industries, Inc. (dba Agrium U.S. Inc. Conda Phosphate Operations), Soda Springs, Idaho . Engineers, Inc., Silver City, NM. August 2008.

Table 2
Nitrogen Data - June 2008
Nu-West Industries CPO Facility
Conda, Idaho

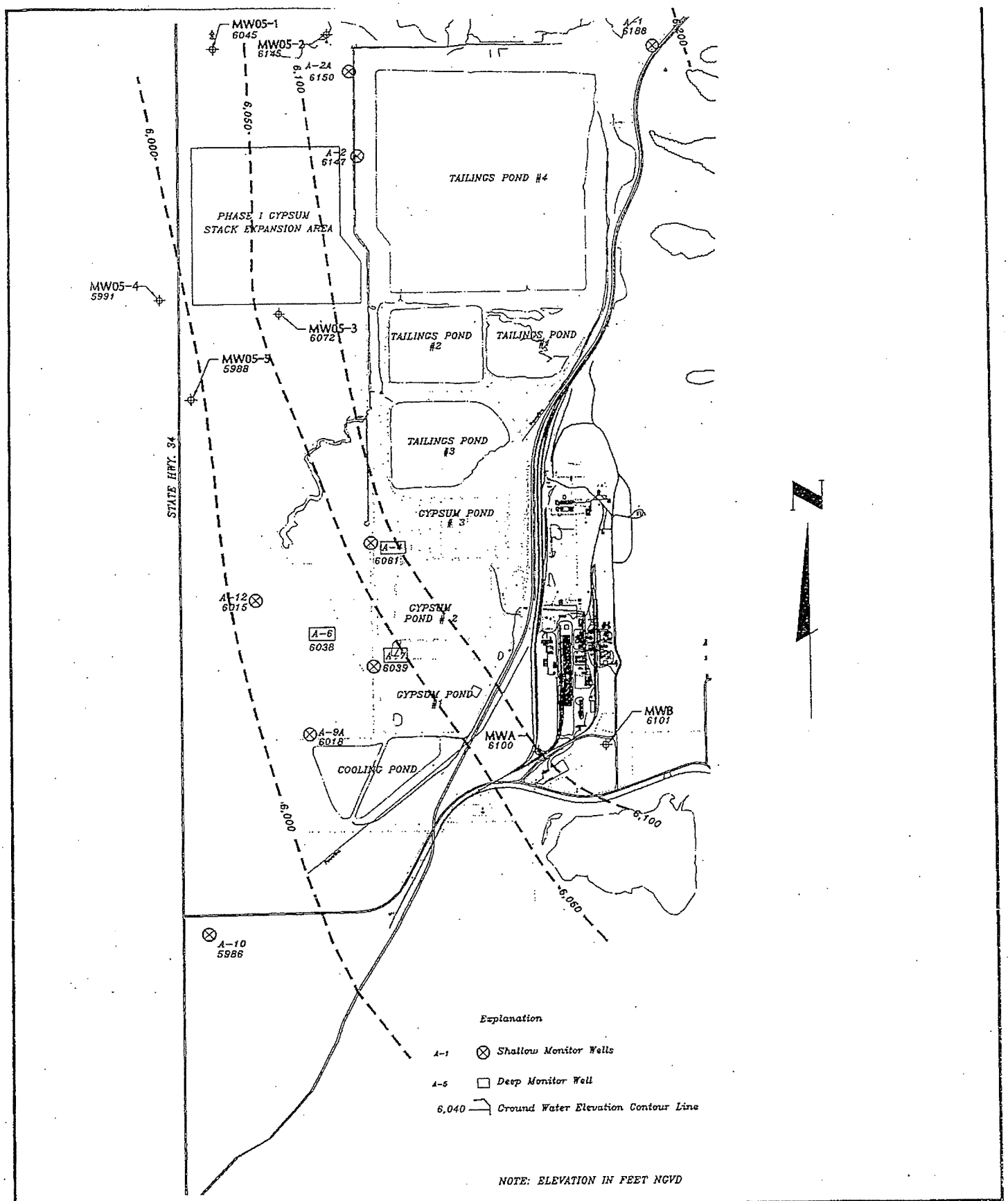
Well	Approximate Distance from Torgesen Ranch Well		TKN (mg/l)	Nitrate (mg/l)	Estimated Total Nitrate (mg/l) [a]
	Groundwater Pathway Distance (feet)	Radial Distance (feet)			
Torgesen	0	0	< 0.5	33.67	33.7
A-12	2000	2000	1.46	< 0.5	1.5
A-11	2400	2000	18.39	6.0	24.4
NW-5	3000	3000	< 0.5	1.27	1.3
A-3	3200	2300	< 0.5	3.4	3.4
A-6	3700	2800	17.39	22.8	40.2
A-4	4000	2800	< 0.5	19.04	19.0
A-8	4000	3500	17.73	59.7	77.4
A-9A	4200	4200	9.38	5.0	14.4
A-7	5000	4000	78.3	5.93	84.2

Reference: *Ground Water Assessment Report, Spring 2008 Assessment, Nu-West Industries, Inc. (dba Agrium U.S. Inc. Conda Phosphate Operations), Soda Springs, Idaho*. Engineers, Inc., Silver City, NM. August 2008.

[a] For the wells which were installed before the December 27, 2006 Gypstack release, the June 2008 potential nitrate concentrations are consistent with the 2001 to 2008 data set.

[b] A-12 is located in the same fault zone as the Torgesen well, in an area with a higher piezometric head, thus is effectively an upgradient well. The distances assume a groundwater flow path from the CPO facility and gypstacks toward the west, then along the fault to the Torgesen well. Wells MW05-3, -4, and -5 (north of the Torgesen well and west of the CPO facility) had less than 2.6 mg/l potential nitrate.

Appendix A – Typical Groundwater Elevation Contour Map



ENGINEERS INC

301 W. COLLEGE AVE.
SUITE #1
SILVER CITY, NM 88061

(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
OCTOBER 2007
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 12/07 ONT	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0702P

Appendix B – Bio-West Inc. Nitrate and Total Nitrogen Figures

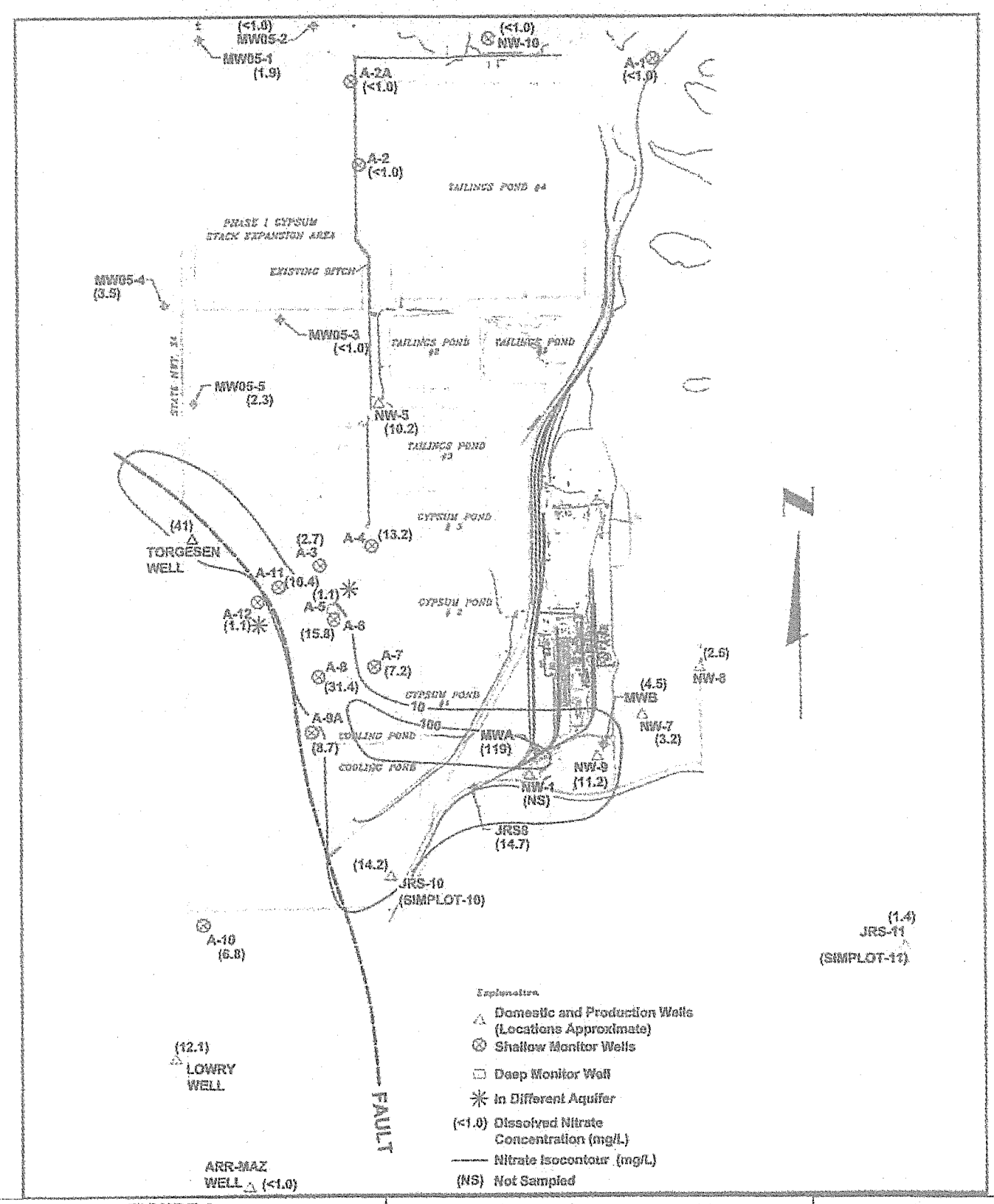


FIGURE 2
TORGESEN RANCH
NITRATE IN GROUNDWATER
SPRING 2007
CPO. Soda Springs, Idaho

Approximate Scale:
0 1042.5 2085 4170

NOTE: Base Map provided by Engineers Inc.

PROJECT NO.:	1144
DATE:	04/15/08
DRAWN BY:	AC
PREPARED BY:	WT
REVISION NO.:	

BIO-WEST, Inc.
1063 West 1400 North
Logan, Utah, 84321
www.bio-west.com
435-752-4202

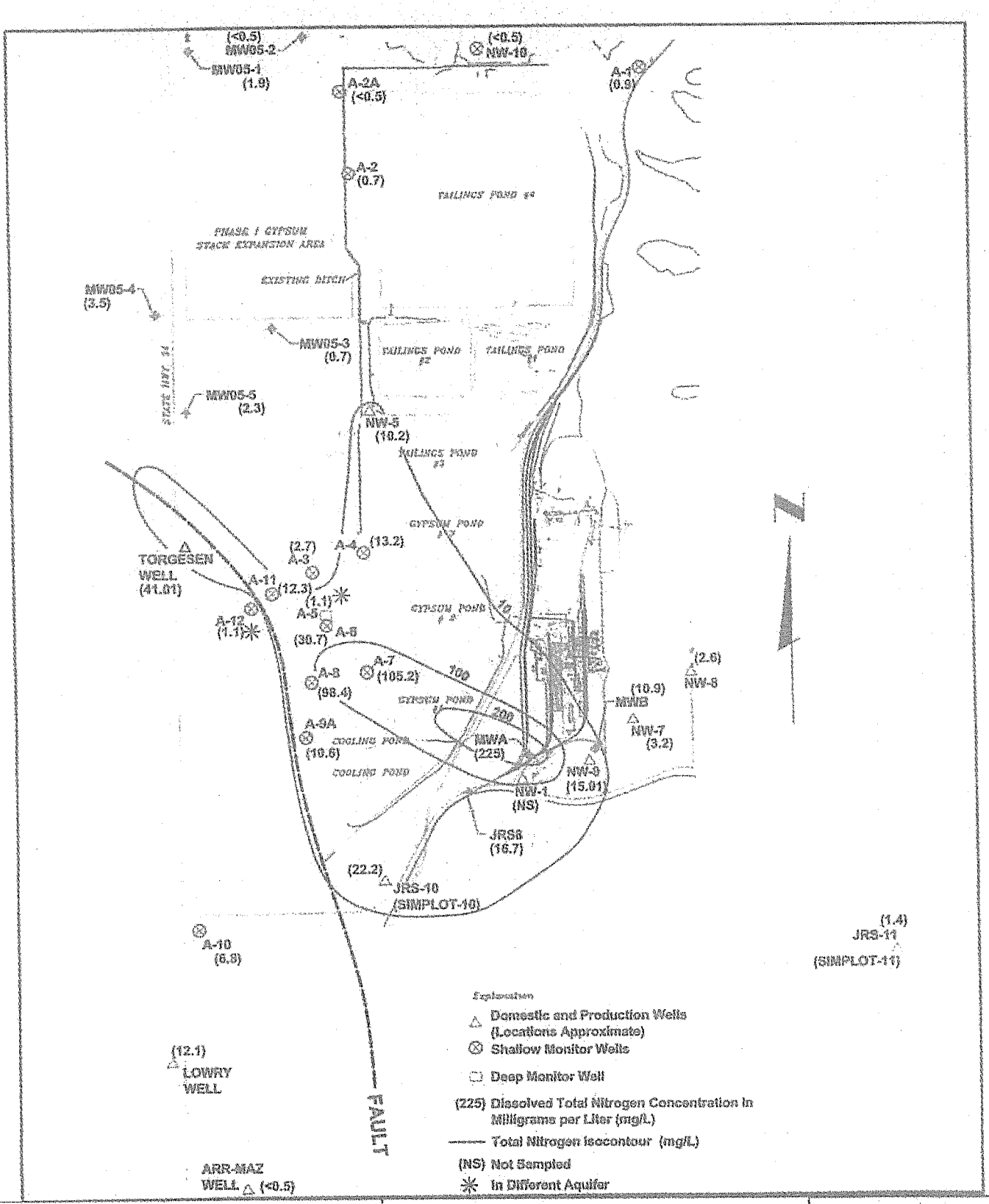


FIGURE 3
TORGESEN RANCH
TOTAL NITROGEN IN GROUNDWATER
SPRING 2007
CPO. Soda Springs, Idaho

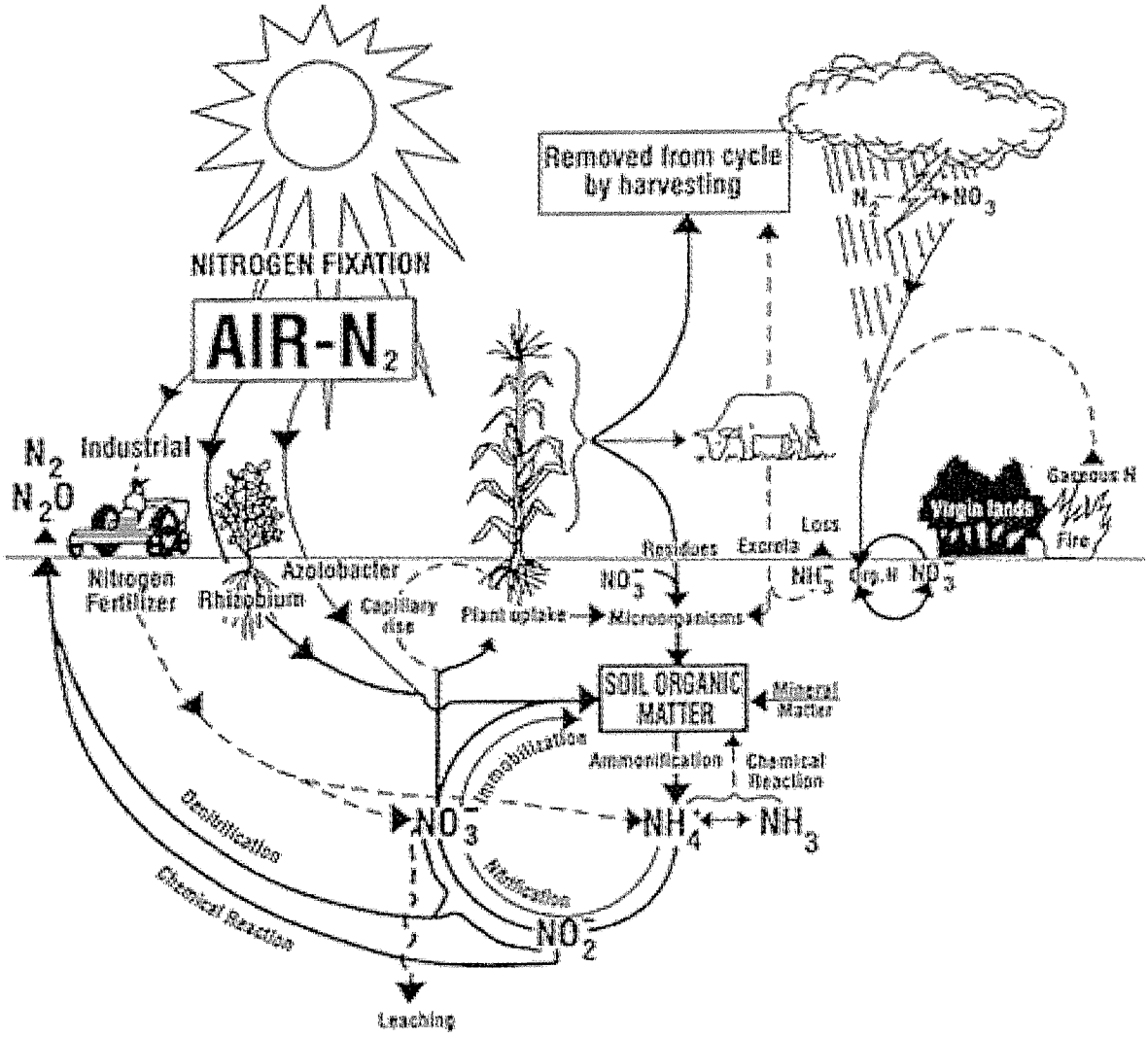
Approximate Scale:
0 1042.5 2085 4170

NOTE: Base Map provided by Engineers Inc.

PROJECT NO.:	1144
DATE:	04/15/08
DRAWN BY:	AC
PREPARED BY:	WT
REVISION NO.:	

BIO-WEST, Inc.
1063 West 1400 North
Logan, Utah, 84321
www.bio-west.com
435-752-4202

Appendix C – Nitrogen Cycle



Nitrogen Cycle (Brown and Johnson, 1996)

GROUND WATER ASSESSMENT REPORT
FALL 2008 ASSESSMENT
NU-WEST INDUSTRIES, INC.
(dba AGRIUM U.S., INC.,
CONDA PHOSPHATE OPERATIONS)
SODA SPRINGS, IDAHO

Prepared for

Nu – West Industries
(dba Agrium CPO)
Soda Springs, Idaho

Prepared by

ENGINEERS INC

Silver City, New Mexico

EI File No. NUW0802P

December 2008

ENGINEERS INC

December 16, 2008

Mr. Coleman Kavanagh
Nu-West Industries, Inc.
Conda Phosphate Operations
3010 Conda Road
Soda Springs, Idaho 83276

RE: Ground Water Assessment Report
Fall 2008 Assessment
Conda Phosphate Operations
Soda Springs, Idaho
EI Project No. NUW0802P

Dear Coleman:

Engineers Inc. is pleased to submit the enclosed ground water assessment report detailing our Fall 2008 activities conducted as part of the approved Ground Water Monitoring Plan (GWMP) for Conda Phosphate Operations (CPO).

We appreciate this opportunity to be of continued service, and look forward to providing Agrium with environmental, geotechnical engineering and mine planning services in the future. If you have any questions or comments, please call.

Sincerely,

12/16/08

Wayne A. Ericson, P.E.
Engineers Inc.

Cc: Alan Skinner

Attachments

301 W. College Avenue, Suite 1, Silver City, NM 88061
Phone: 505.538.5395 Fax: 505.538.5410
e-mail: silver@engineersinc.com
Our vision is to be the leading professional team, serving our communities with quality and integrity.

Report

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1.2 Project Background 5

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Figure 3 Ground Water Level Data Collection Points
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Figure 7 Map of Ground Water Ammonia Concentrations Map

APPENDICES

APPENDIX A Monitor Well Purge/Sampling Data Sheets
APPENDIX B Ground Water Elevation Data Summary
APPENDIX C Laboratory Analytical Summary Sheet:
APPENDIX D IAS-Envirochem, Inc., and TAL Richland Laboratory Analytical Reports

1.0 INTRODUCTION

1.1 Site Location and General Information

Nu-West Industries operates Conda Phosphate Operations (CPO), a phosphate mining and processing plant located approximately five miles north of Soda Springs, in Caribou County, Idaho. The CPO complex is located near the old mining town of Conda, Idaho. The plant facility lies within the west half of Section 10, Township 8 South, Range 42 East. The gypsum stacks and cooling ponds are located in the east half of Section 9, Township 8 South, Range 42 East. Additional mine tailings storage ponds are located north of the gypsum stack system in Section 4, Township 8 South, Range 42 East. The site layout is shown on **Figures 1 and 2**.

1.2 Project Background

As part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) assessment events were completed at the CPO facility in November 1999, October 2000, April, August and November 2001, June and October 2002, and May and October 2003, May and October 2004, June and October 2005, June and December 2006, May and October 2007, and June and October 2008. The following sections of this report detail project tasks completed for the most recent sampling. The tasks completed as part of the assessment activities included:

- collection of water level data from the ground water monitor wells (A-1 through A-12, MW05-1 through 5, MWA and MWB);
- collection of ground water samples from 17 monitoring wells, five on-site production wells, four offsite production wells (Simplot well JRS-8 (no pump), JRS-10 and JRS-11, and the Arr-Maz well), and two offsite domestic wells (the Lowry and Torgesen wells);
- collection of quality assurance samples, including duplicate samples and an equipment blank;
- submittal of the ground water samples to IAS-Envirochem, Inc., and TAL Richland (formerly Severn Trent Laboratories, Inc. (STL)) for laboratory analysis of the parameters listed in the approved GWMP; and,
- preparation of this summary report, including a description of our field activities, documentation of field data and laboratory chain of custody reports, and an analysis of all available laboratory analytical results.

Table 1 provides a summary of the various project activities completed to date, and a timeline showing the dates during which these specific activities were completed.

Table 1

		Fall 1999	Fall 2000	Spring 2001	Sum. 2001	Fall 2001	June 2002	Oct. 2002	2003 – 2005	June-Dec 2006	April-May 2007	Oct 2007	June and October 2008
Drill and Install Monitor Well(s) for Ground Water Sampling*		X	--	--	(A-9A)	--	--	(A-10)	--	--	X A-11 and 12	--	
Abandon Existing Monitor Well(s) No Longer in Use					X	--	--	--	--	--		--	
Collect Ground Water Level Data and Prepare Ground Water Flow Map		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Surface Water Sample for Chemical Constituents		X	X	X	X	--	X	--	--	--	--	--	
Collect/Analyze Process Water Sample(s) for Chemical Constituents		--	X	X	--	--	--	--	--	--	--	--	
Collect/Analyze Onsite Ground Water Monitor Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Onsite Production Well Samples for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X
Collect/Analyze Offsite Domestic Well Sample(s) for Chemical Constituents		X	X	X	X	X	X	X	X	X	X	X	X

Summary of Assessment Activities and Completion Dates

NUW 005734

2.0 FIELD ACTIVITIES

2.1 Ground Water Level Data Collection

Ground water level measurements were collected from the monitoring wells (A-1 through A-12, A-2A, MW05-1 through 5, MWA and MWB). The ground water level data are summarized in **Table 2**, and the locations of the wells are shown on **Figure 3**. These water level measurements were used to prepare an updated ground water elevation contour map for the site (discussed in **Section 3.1** of this report).

Table 2

Monitor Well Water Level Data
Conda Phosphate Operations
Fall 2008

Well ID	Data Collection Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Est. Ground Water Elevation (feet)
A-1	October 2008	6,221.7	34.7	6187.0
A-2	October 2008	6,156.8	10.6	6146.2
A-3	October 2008	6,149.8	105.8	<6044.0
A-4	October 2008	6,149.8	57.4	6092.4
A-5	October 2008	6,150.4	96.3	6054.1
A-6	October 2008	6,150.2	108.7	6041.5
A-7	October 2008	6150.5	104.2	6046.3
A-8	October 2008	6,149.0	127.2	6021.8
A-9A	October 2008	6,146.3	123.8	6022.5
A-10	October 2008	6,124.3	140.2	5984.1
A-11	October 2008	6,147.0	142.5	<6004.5
A-12	October 2008	6,125.0	114.6	<6010.4
A-2A	October 2008	6,161*	12.7	6148.3
MWA	October 2008	6,155.8	53.7	6102.1
MWB	October 2008	6,162.5	60.9	6101.6
MW05-1	October 2008	6,160 *	118.5	6041.5
MW05-2	October 2008	6,160*	22.1	6137.9
MW05-3	October 2008	6,152*	68.1	6083.9
MW05-4	October 2008	6,174*	183.4	5990.6
MW05-05	October 2008	6,178*	190.6	5987.4

*Estimated from topographic map

2.2 Ground Water Sampling

In October 2008 water samples were collected for laboratory analysis from the locations shown on **Figure 4** by representatives from Aquatech LLC for Engineers Inc. The ground water sampling locations included:

- GWMP monitor wells; plant site monitoring wells
- Five monitoring wells associated with the Phase I gypsum stack expansion
- Operating onsite production wells
- Offsite production wells, including the JRS-8, JRS-10 and JRS-11 wells, and the Arr-Maz well (located at the Arr-Maz Products, Inc. facility); and,
- The domestic/ranch wells located at the Lowry residence and the Torgesen Ranch.

The monitor wells were purged and sampled using an electric, stainless steel, submersible pump; manufactured by Grundfos Pumps Corporation (Redi-Flo 2, Model MP-1). The pump was powered by a portable generator. During well purging and sampling, the pH, specific conductance and temperature readings for the samples were typically measured with a portable field meter and recorded on field data sheets. Well purge/sampling data sheets for each location are provided in **Appendix A** and a summary of the field parameter readings for the ground water samples is provided in **Table 3.**

Table 3
Summary of Field Parameter Readings
Fall 2008

Well ID	pH (Standard Units)	Specific Conductance (µS/cm)	Temperature (°C)
A-1	7.57	333	11.7
A-2	7.52	513	13.6
A-3	NS	NS	NS
A-4	6.39	1133	7.8
A-5	7.10	811	9.6
A-6	6.58	1227	9.4
A-7	6.48	1778	13.2
A-8	**NS**	**NS**	**NS**
A-9A	6.62	1219	9.5
A-10	7.29	693	9.5
A-11	**NS**	**NS**	**NS**
A-12	**NS**	**NS**	**NS**
A-2A	7.46	518	8.5
NW-1	**NS**	**NS**	**NS**
NW-5	7.2	853	14.4
NW-7	7.85	543	9.0
NW-8	8.08	367	11.0
NW-9	6.91	940	9.0
NW-10	7.85	578	9.9
MT Fuel	NS	NS	NS
JRS 10	6.46	848	9.8
JRS 11	7.59	390	9.3
ARR-MAZ	7.06	534	16.5
LOWRY	7.65	432	8.8
TORGESEN	7.5	633	6.9
MWA	6.04	1631	10.1
MWB	5.23	1172	12.5
JRS-8	6.6	748	9.0
MW05-1	7.49	533	8.9
MW05-2	7.53	523	7.4
MW05-3	7.65	617	7.0
MW05-4	7.61	519	8.5
MW05-5	7.03	599	8.7

Notes: 1) µS/cm = microSiemens per centimeter (post-sampling recalibration of the field conductivity probe indicated that the field readings are approximately 20 to 30% lower than the laboratory readings; these readings were only used to determine consistency of the field parameter prior to taking a sample; °C = degrees Celsius

NS: wells not sampled due to insufficient or no water in the well casing.

Following the completion of well purging activities at each location, ground water samples were collected and transferred to laboratory-supplied sample containers. Following collection, the sample containers were placed in coolers filled with ice, and stored for shipment to the laboratory.

The operating onsite production wells, the offsite production wells (Simplot JRS-10 and JRS-11 wells), and the two domestic wells were generally sampled while the well pumps were operating in an "on demand" mode. Prior to sample collection, sampling ports or valves in the piping on the downstream side of each well pump were opened to remove stagnant water from the fitting. At each location, a minimum of 10 to 20 gallons of water was withdrawn from the sampling port or valve before samples were collected.

2.3 Sample Delivery and Laboratory Analysis

Following collection, chain-of-custody forms were completed.

A complete listing of the chemical constituents and parameters specified in the GWMP is provided in **Table 4**. In addition, the table provides a listing of the analytical test methods used, the laboratory's method detection limit for each parameter, and the unit of measurement for each constituent.

Table 4
Listing of Analytical Parameters

Parameter	Test Method	Method Detection	Units
Alkalinity	310.1	5	mg/L
Aluminum	200.7	.01	mg/L
Ammonia (Total)	350.3	0.05	mg/L
Antimony	200.9	0.003	mg/L
Arsenic	200.7	0.005	mg/L
Barium	200.7	0.05	mg/L
Beryllium	200.7	0.002	mg/L
Beta Particles and Photon	900.0	N/A	pCi/L
Bicarbonate Alkalinity	310.1	5	mg/L
Cadmium	200.7	0.002	mg/L
Calcium	200.7	1	mg/L
Carbonate Alkalinity	310.1	5	mg/L
Chloride	325.2	5	mg/L
Chromium	200.7	0.05	mg/L
Cobalt	200.7	0.01	mg/L
Copper	200.7	0.05	mg/L
Fluoride	300.0	0.5	mg/L
Gross Alpha Particle Activity	900.0	N/A	pCi/L
Iron	200.7	0.05	mg/L
Lead	200.8	0.003	mg/L
Magnesium	200.7	0.09	mg/L
Manganese	200.7	0.01	mg/L
Mercury	245.1	0.0008	mg/L
Nickel	200.7	0.05	mg/L
Nitrate (as N)	353.2	1	mg/L
Nitrogen (Total) and TKN	351.4	0.5	mg/L
Orthophosphate	365.1	0.05	mg/L
pH	150.1	0.1	SU
Phosphorus (Total)	365.1	0.05	mg/L
Potassium	200.7	0.3	mg/L
Selenium	200.9	0.003	mg/L
Silver	200.7	0.02	mg/L
Sodium	200.7	0.05	mg/L
Specific Conductance	120.1	0.5	µS/cm
Sulfate	300.0	5	mg/L
Thallium	200.9	0.001	mg/L
Total Dissolved Solids	160.1	2	mg/L
Total Suspended Solids	160.2	2	mg/L
Vanadium	200.7	0.03	mg/L
Zinc	200.7	0.05	mg/L

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
4) N/A = not applicable
5) µS/cm = microSiemens per centimeter

3.0 DATA ANALYSIS

3.1 Ground Water Level Data

The ground water level data obtained from the monitor wells were utilized to prepare a map depicting the localized direction of ground water flow in the unconfined surficial aquifer. A map depicting the ground water elevation contours and direction of ground water flow for October 2008 is shown on **Figure 5**. As noted in previous reports, water level data obtained from monitor well A-5 was not used in calculations of the ground water elevation contours, due to the fact that this well was completed in the confined or partially confined sandstone formation below the overlying sequences of alluvium, tuff and basalt.

The map indicates that unconfined surficial aquifer ground water flow in the area west of the facility continues to trend generally in a west-southwestern direction. Current water levels, as shown in Table 5, generally fluctuated downward as compared to June 2008. Water levels in wells A-2 and A-2A probably reflect the surface water flow in the nearby irrigation ditch. The water level data for the monitor wells through October 2008 are presented in **Appendix B**.

Table 5
Comparison of Historical and Current Monitor Well Water Elevation Data

Well ID	Ground Water Elevations June 2008 (ft. NGVD)	Ground Water Elevations October 2008 (ft. NGVD)	Ground Water Elevation Difference from 06/08 – 10/08 (feet)
A-1	6188.4	6187.0	-1.40
A-2	6145.9	6146.2	0.30
A-3	6054.4	6044	-10.4
A-4	6104.6	6092.4	-12.2
A-5	6061.3	6054.1	-7.2
A-6	6046.4	6041.5	-4.9
A-7	6052.8	6046.3	-6.5
A-8	6026.6	6021.8	-4.8
A-9/A-9A	6027.9	6022.5	-5.4
A-10	5986.6	5984.1	-2.5
A-2A	6149.9	6148.3	-3.7
MW05-1	6046.4	6041.5	-4.9
MW05-2	6145.1	6137.9	-7.2
MW05-3	6096.0	6083.9	-12.1
MW05-4	5994.1	5990.6	-3.5
MW05-5	5993.3	5987.4	-5.9
MW A	6103.7	6102.1	-1.6
MW B	6101.3	6101.6	0.3
A-11	6008.2	6008.2	-3.5
A-12	6015.0	6016.3	-5.9

3.2 Laboratory Analytical Results

The analytical results for all of the ground water samples were compared with the Primary and Secondary Water Quality Standards referenced in the State of Idaho's Ground Water Quality Rule (Idaho Administrative Procedures Act (IDAPA) 58.01.11). These standards meet, and in some cases, exceed the U.S. Environmental Protection Agency's (EPA's) Drinking Water Standards referenced in Section 40, Part 141 of the U.S. Code of Federal Regulations (40 CFR). A summary listing of the parameters for which enforceable standards are specified in the Ground Water Quality Rule is provided in **Table 6**.

Table 6
GWMP Constituents and Idaho Ground Water Standards

Parameter	Constituent Type	Unit	Idaho Standard
Aluminum	Secondary	mg/L	0.2
Antimony	Primary	mg/L	0.006
Arsenic	Primary	mg/L	0.05
Barium	Primary	mg/L	2
Beryllium	Primary	mg/L	0.004
Beta Particles and Photon Emitters	Primary	mrem/yr	4
Cadmium	Primary	mg/L	0.005
Chloride	Secondary	mg/L	250
Chromium	Primary	mg/L	0.1
Copper	Primary	mg/L	1.3
Gross Alpha Particle Activity	Primary	pCi/L	15
Fluoride	Primary	mg/L	4
Iron	Secondary	mg/L	0.3
Lead	Primary	mg/L	0.015
Manganese	Secondary	mg/L	0.05
Mercury	Primary	mg/L	0.002
Nitrate (as N)	Primary	mg/L	10
Nitrite (as N)	Primary	mg/L	1
Nitrate and Nitrite (both as N)	Primary	mg/L	10
pH	Secondary	SU	6.5 – 8.5
Radium 226/228	Primary	pCi/L	5
Selenium	Primary	mg/L	0.05
Silver	Secondary	mg/L	0.1
Sulfate	Secondary	mg/L	250
Thallium	Primary	mg/L	0.002
Total Dissolved Solids	Secondary	mg/L	500
Zinc	Secondary	mg/L	5

Notes: 1) mg/L = milligrams per liter
2) pCi/L = picocuries per liter
3) SU = Standard Units
3) N/A = not applicable
4) µS/cm = microSiemens per centimeter
5) Mrem/yr = millirems per year

A detailed summary of the laboratory analytical results is provided in a table contained in **Appendix C**. Copies of the laboratory reports are provided in **Appendix D**.

The wells west, southwest and south of the gypsum stack (A-4, A-5, A-6, A-7, A-9A, A-10, MW 05-3 and 5, JRS-8 and JRS-10) reveal levels of TDS above the state standard of 500 mg/l. Production wells NW-5, NW-7, NW-9, NW-10 and JRS-10 and the Torgesen and Arr-Maz wells also revealed TDS levels above 500 mg/l.

Maps of TDS and ammonia concentrations for October 2008 are shown on **Figures 6 and 7**, and are based on the laboratory analytical data for all of the ground water sampling locations.

3.3 Historical Trends

As part of this evaluation, previous laboratory analytical data were compared with the results of the current investigation. Data from the sampling events are shown in tables depicting the concentrations of TDS, total nitrogen, sulfate, sodium and aluminum over time. They are included as Tables 7 through 11, respectively.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1) Ground water levels in the area west of the gypsum stack typically showed significantly lower levels as compared to sampling in June 2008.

2) The ground water elevation contour map shows that the generalized direction of ground water flow in the area west of the plant facility continues to trend in a westerly to southwesterly direction.

3) In general, the concentrations of total nitrogen, magnesium, manganese, sulfate, sodium and TDS detected in the down gradient wells and the JRS-8, JRS-10 offsite production well remain higher than the concentrations present in up-gradient wells (wells A-1, A-2A, NW-7 and wells MW05-1 through 5).

4) Concentrations of ammonia, magnesium, sulfate, sodium, phosphorus, and TDS in the Torgesen well are similar to the June 2008 sampling.

5) The concentration of nitrate in the Lowry and Torgesen wells exceeded the State of Idaho's ground water quality standard. However, the overall results reflect that these wells do not appear to be affected by ground water impacts resulting from activities at the CPO facility.

6) Plant site monitoring wells MW-A and MW-B revealed elevated levels of TDS, sulfate, sodium, fluoride, phosphorous, nitrogen and aluminum, as compared to the

up gradient background wells. These wells also revealed acidic pH readings and slightly elevated gross beta readings as compared to the up gradient wells.

7) The typical concentrations of nitrogen, sulfate, sodium and TDS in the ground water samples (as compared to the up-gradient wells) collected from the monitoring wells west and south of the original stack, JRS-8 and JRS-10 (offsite production well) suggest that the ground water quality in the unconfined surficial aquifer has probably been impacted by the original gypsum stack system. Wells MW A and B appear to show indications of impacts from the plant area.

8) The monitoring wells installed in 2005 around the lined Phase I gypsum stack expansion area were sampled as part of this study. The water quality test results from these wells (MW05-1 through 05) are similar to the background wells, elsewhere on the site.

8) The Arr-Maz well continues to exhibit a slightly elevated TDS concentration. Other parameters associated with the gypsum stack system, such as ammonia, sodium, phosphorus and sulfate, were at or near background levels in the sample collected from this location. The higher TDS value is likely from a localized source of dissolved carbonates, as indicated by the higher than background alkalinity and calcium concentrations.

9) Monitoring wells A-11 and A-12 near the Torgesen Racnh could not be sampled due to little or no water in the well casings.

4.2 RECOMMENDATIONS

1) Continue periodic collection (minimum two times per year) of water level data from all monitor wells.

2) Continue sampling and testing (at least semi-annually) of ground water samples from the existing monitor wells, the onsite and offsite production wells, and the offsite domestic wells.

3) Wells, A-3, A-8, A–11 and A-12 should be redrilled to deeper depths to allow for sampling following or during periods of lower water levels such as in October 2008.

5.0 REFERENCES

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Table 7 Page 1 of 2
TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Total Dissolved Solids Concentrations (mg/L)									
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	
A-1	270	222	284	292	208	270	294	278	252	A-1
A-2	370	378	416	430	436	412	388	N.S.	N.S.	A-2
A-3	575	678	880	N.S.	N.S.	1,008	N.S.	N.S.	N.S.	A-3
A-4	455	546	758	644	740	1,074	998	1,002	1,186	A-4
A-5	740	552	554	622	646	708	760	824	790	A-5
A-6	2,280	2,698	2,560	1,872	1,256	2,400	1,828	N.S.	N.S.	A-6
A-7	4,855	4,500	3,892	4,226	4,156	2,824	3,198	2,452	N.S.	A-7
A-8	3,840	3,462	3,234	3,282	N.S.	3,216	N.S.	N.S.	N.S.	A-8
A-9/A-9A	1,805	N.S.	N.S.	2,130	2,000	2,312	2,184	2,182	2,210	A-9/A-9A
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	688	792	674	A-10
MF Well	725	658	594	1,078	N.S.	N.S.	N.S.	N.S.	N.S.	MF Well
NW-1	680	612	580	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	NW-1
NW-5	2,125	1,278	1,676	2,276	594	722	2,034	1,992	1,622	NW-5
NW-7	470	542	542	498	452	560	562	568	536	NW-7
NW-8	245	232	328	304	290	322	304	344	308	NW-8
NW-9	N.S.	N.S.	N.S.	1,622	N.S.	N.S.	2,140	N.S.	N.S.	NW-9
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	704	658	678	706	NW-10
JRS-10	N.S.	346	1,236	1,094	1,344	1,608	1,430	1,526	1,548	JRS-10
JRS-11	N.S.	1,350	328	398	342	398	292	370	356	JRS-11
Arr-Maz	N.S.	N.S.	748	798	778	670	738	772	804	Arr-Maz
Lowry	N.S.	N.S.	340	422	356	460	290	440	358	Lowry
Torgesen	645	590	544	588	552	1,494	672	722	762	Torgesen
JRS 8						Wells First Sampled in June 2005				JRS8
MW A										MWA
MW B										MWB

NOTE: N.S.= Not sampled

Table 7 Page 2 of 2
TOTAL DISSOLVED SOLIDS CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Total Dissolved Solids Concentrations (mg/L)										
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08	
A-1	256	266	298	278	264	280	246	286	284	278	A-1
A-2	N.S.	390	N.S.	432	436	426	392	480	446	426	A-2
A-3	N.S.	N.S.	N.S.	N.S.	930	822	928	NS	1120	NS	A-3
A-4	1,564	1,810	1,880	1,844	2,238	1,880	1,644	1708	2410	1968	A-4
A-5	730	770	780	800	908	890	896	1000	1152	1118	A-5
A-6	N.S.	N.S.	N.S.	N.S.	2,234	2,368	2,174	1992	2796	2300	A-6
A-7	N.S.	N.S.	N.S.	N.S.	2,728	2,954	2,864	3080	2986	3128	A-7
A-8	N.S.	N.S.	N.S.	N.S.	3,160	2,962	2,806	NS	2876	NS	A-8
A-9/A-9A	1,990	1,764	1,774	1,602	1,858	2,170	2,188	1970	2438	2260	A-9/A-9A
A-10	682	596	650	660	672	674	612	704	730	704	A-10
MF Well	N.S.	1,078	1,138	1,080	N.S.	N.S.	N.S.	NS	NS	NS	MF Well
NW-1	1,486	1,664	1,102	1,506	N.S.	N.S.	N.S.	NS	NS	NS	NW-1
NW-5	2,130	1,816	2,432	914	N.S.	658	1,780	1512	686	1256	NW-5
NW-7	554	554	472	514	556	596	538	604	654	592	NW-7
NW-8	328	320	304	312	310	348	284	NS	378	320	NW-8
NW-9	N.S.	2,882	1,970	1,526	1,538	1,606	1,316	1500	1640	1368	NW-9
NW-10	686	742	652	670	660	616	594	700	666	740	NW-10
JRS-10	1,458	1,534	1,274	1,256	1,366	1,510	1,508	1504	1554	1502	JRS-10
JRS-11	374	402	374	386	396	374	352	368	390	370	JRS-11
Arr-Maz	572	682	656	732	728	714	782	824	820	818	Arr-Maz
Lowry	418	404	430	404	460	412	398	456	458	450	Lowry
Torgesen	812	744	786	816	936	916	904	988	806	842	Torgesen
JRS 8			1,256	1,166	1,488	1,202	1,198	1200	1276	1218	JRS-8
MW A			2,860	3,360	3,282	2,794	2,158	2578	2574	2818	MWA
MW B			3,198	3,872	1,826	2,304	8,792	5304	2992	2812	MWB
A-11							1,122	NS	1042	NS	A-11
A-12							720	594	712	NS	A-12
MW05-1				428	414	446	414	444	462	440	MW05-1
MW05-2				486	482	496	444	468	466	478	MW05-2
MW05-3				558	432	550	550	618	580	564	MW05-3
MW05-4				434	378	440	466	462	498	434	MW05-4
MW05-5				702	434	552	542	632	540	558	MW05-5

E: N.S.= Not sampled

P\NUW0802P\Fall 2008 Historical Trends - Tables 7-11
TDS

Table 8 Page 1 of 2
TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Total Nitrogen Concentrations (mg/L)									
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	
A-1	<0.5	1.60	<0.5	2.0	2.50	1.2	0.9	1.2	1.2	A-1
A-2	<0.5	<0.5	<0.5	0.60	0.60	<0.5	0.9	N.S.	N.S.	A-2
A-3	<0.5	1.70	2.0	N.S.	N.S.	2.4	N.S.	N.S.	N.S.	A-3
A-4	<0.5	1.10	1.50	1.70	0.60	3.1	2.3	2.2	3.4	A-4
A-5	<0.5	1.30	1.30	3.70	1.50	1.3	1.0	1.4	1.4	A-5
A-6	10.40	20.80	23.50	10.00	9.30	30.8	9.1	N.S.	N.S.	A-6
A-7	186.20	195.00	156.10	180.00	148.00	77.5	92	90	N.S.	A-7
A-8	104.40	100.90	92.10	82.30	N.S.	100.6	N.S.	N.S.	N.S.	A-8
A-9/A-9A	13.70	N.S.	N.S.	11.50	9.60	12.3	10.4	9.5	8.8	A-9/A-9A
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	8.7	8.7	8.7	A-10
MF Well	<0.5	1.70	1.90	5.40	N.S.	N.S.	N.S.	N.S.	N.S.	MF Well
NW-1	1.20	1.90	1.80	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	NW-1
NW-5	26.40	4.80	39.80	66.00	16.30	26.1	33	32.1	24.2	NW-5
NW-7	<0.5	4.30	4.20	5.50	3.80	4.3	4.3	4.2	4.1	NW-7
NW-8	<0.5	3.60	2.90	3.30	3.0	3.1	3.2	3.6	3.1	NW-8
NW-9	N.S.	N.S.	N.S.	28.10	N.S.	N.S.	48.00	N.S.	N.S.	NW-9
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	1.0	1.4	0.6	0.8	NW-10
JRS-10	N.S.	20.90	19.10	14.00	17.90	23.6	20.2	19.4	18.0	JRS-10
JRS-11	N.S.	1.90	1.90	2.70	2.70	2.0	2.3	2.0	1.9	JRS-11
Arr-Maz	N.S.	N.S.	<0.5	1.70	2.0	1.2	0.9	1.1	1.1	Arr-Maz
Lowry	N.S.	N.S.	12.40	9.0	10.70	14.5	11.6	15.2	10.9	Lowry
Torgesen	<0.5	18.90	17.70	17.20	14.40	21.6	25.7	26.60	31.30	Torgesen
JRS 8										JRS 8
MW A										MW A
MW B										MW B

NOTE: N.S. = Not sampled

Table 8 Page 2 of 2
TOTAL NITROGEN CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Total Nitrogen Concentrations (mg/L)										
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct. 07	Jun-08	Oct-08	
A-1	1.20	<0.5	<0.5	<0.5	20.1	<0.5	0.9	<0.5	<0.5	<0.5	A-1
A-2	N.S.	3.9	N.S.	<0.5	0.7	<0.5	0.7	<0.5	<0.5	<0.5	A-2
A-3	N.S.	N.S	N.S.	N.S.	2.3	1.9	<0.5	NS	3.4	NS	A-3
A-4	6.00	5.6	8.5	8.5	25.0	18.9	<0.5	11.6	19.0	15.9	A-4
A-5	1.40	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	1.0	<0.5	<0.5	A-5
A-6	N.S.	N.S.	N.S.	N.S.	57.0	34.9	14.9	12.7	40.2	16.7	A-6
A-7	N.S.	N.S.	N.S.	N.S.	104.0	84	105.2	71.9	84.2	81.4	A-7
A-8	N.S.	N.S.	N.S.	N.S.	86.0	73	98.4	NS	77.4	NS	A-8
A-9/A-9A	7.10	7.3	6.8	6.1	7.8	10.9	10.6	9.4	14.4	11.7	A-9/A-9A
A-10	8.20	8.0	7.1	7.4	7.4	7.1	6.8	10.1	7.1	7.1	A-10
MF Well	N.S.	2.7	2.3	1.0	N.S.	N.S.	N.S.	NS	NS	NS	MF Well
NW-1	15.20	20.1	3.5	19.3	N.S.	N.S.	N.S.	NS	NS	NS	NW-1
NW-5	50.70	9.7	41.4	8.9	N.S.	1.7	10.2	14.6	1.3	8.2	NW-5
NW-7	4.20	3.6	6.4	4.2	3.8	3.4	3.2	3.7	3.6	3.4	NW-7
NW-8	3.60	2.8	3.1	2.8	3.2	3.0	2.6	NS	3.3	2.9	NW-8
NW-9	N.S.	23.3	22.9	14.8	27.7	17.0	15.0	17.6	28.9	20.4	NW-9
NW-10	<1.0	0.7	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NW-10
JRS-10	23.80	21.4	19.2	16.7	27.8	21.4	22.2	21.6	30.2	23.2	JRS-10
JRS-11	2.0	1.4	1.5	1.5	1.0	1.2	1.4	1.4	1.3	1.1	JRS-11
Arr-Maz	1.30	<0.5	1.0	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Arr-Maz
Lowry	13.10	12.0	17.4	14.1	17.1	15.7	12.1	13.1	15.6	13.9	Lowry
Torgesen	35.0	33.2	38.3	39.3	52.0	39	41.0	34.0	33.7	52.1	Torgesen
JRS 8			16.0	8.1	28.9	13.6	16.7	11.0	18.4	17.3	JRS 8
MW A			122.0	84.0	237.0	178	225.0	166.0	272.6	346..3	MW A
MW B			17.8	24.2	9.9	10.5	10.9	31.6	14.8	20.0	MW B
A-11							12.3	NS	24.4	NS	A-11
A-12							1.1	NS	1.5	NS	A-12
MW05-1				1.8	2.4	1.6	1.9	1.6	1.2	1.2	MW05-1
MW05-2				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	MW05-2
MW05-3				<0.5	<0.5	<0.5	0.7	2.4	<0.5	<0.5	MW05-03
MW05-4				3.70	3.4	1.6	3.5	3.2	2.60	2.20	MW05-4
MW05-5				1.40	3.0	2.2	2.3	2.0	1.6	1.2	MW05-5

NOTE: N.S. = Not sampled

Table 9 Page 1 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

	Sulfate Concentrations (mg/L)									
Well ID	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	
A-1	17	11	11	12	12	12	8	12	13	A-1
A-2	29	32	37	36	54	34	42	N.S.	N.S.	A-2
A-3	72	79	151	N.S.	N.S.	195	N.S.	N.S.	N.S.	A-3
A-4	37	40	70	47	60	212	156	135	279	A-4
A-5	104	104	119	129	133	167	172	189	193	A-5
A-6	811	1,003	938	603	315	807	542	N.S.	N.S.	A-6
A-7	2,048	1,876	1,609	1,690	1,741	946	1,303	1,235	N.S.	A-7
A-8	1,674	1,498	1,368	1,354	N.S.	1,085	N.S.	N.S.	N.S.	A-8
A-9/A-9A	575	N.S.	N.S.	815	655	690	708	748	684	A-9/A-9A
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	128	119	117	A-10
MF Well	227	184	152	389	N.S.	N.S.	N.S.	N.S.	N.S.	MF Well
NW-1	227	178	149	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	NW-1
NW-5	844	535	666	916	125	68	947	781	550	NW-5
NW-7	166	164	157	81	85	148	146	138	139	NW-7
NW-8	26	43	27	27	26	28	27	36	27	NW-8
NW-9	N.S.	N.S.	N.S.	714	N.S.	N.S.	1,302	N.S.	N.S.	NW-9
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	182	168	170	167	NW-10
JRS-10	N.S.	563	554	395	576	694	553	594	592	JRS-10
JRS-11	N.S.	56	55	54	52	53	49	51	53	JRS-11
Arr-Maz	N.S.	N.S.	37	36	36	36	35	36	36	Arr-Maz
Lowry	N.S.	N.S.	56	47	51	60	48	51	48	Lowry
Torgesen	58	55	55	52	55	587	60	61	60	Torgesen
JRS 8										JRS 8
MW A										MW A
MW B										MW-B

NOTE: N.S. = Not Sampled

Table 9 Page 2 of 2
SULFATE CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Sulfate Concentrations (mg/L)										
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08	
A-1	11	6	6	7	8	<5	8	22	4	4	A-1
A-2	N.S.	43	N.S.	30	39	35	36	40	34	26	A-2
A-3	N.S.	N.S.	N.S.	N.S.	118	128	15	NS	100	NS	A-3
A-4	426	502	490	424	600	406	330	311	694	511	A-4
A-5	188	194	198	205	220	197	228	203	268	327	A-5
A-6	N.S.	N.S.	N.S.	N.S.	516	716	605	508	998	897	A-6
A-7	N.S.	N.S.	N.S.	N.S.	975	1,103	1,106	1195	1201	1552	A-7
A-8	N.S.	N.S.	N.S.	N.S.	1132	1,081	931	NS	850	NS	A-8
A-9/A-9A	623	557	470	424	582	722	668	565	868	906	A-9/A-9A
A-10	110	107	101	84	98	100	84	112	99	93	A-10
MF Well	N.S.	265	269	201	N.S	N.S.	N.S.	NS	NS	NS	MF Well
NW-1	731	610	429	436	N.S	N.S.	N.S.	NS	NS	NS	NW-1
NW-5	804	547	920	184	N.S	168	646	479	165	453	NW-5
NW-7	142	137	109	111	148	154	134	149	170	160	NW-7
NW-8	38	25	27	18	29	25	20	NS	31	23	NW-8
NW-9	N.S.	937	824	518	647	603	538	567	598	677	NW-9
NW-10	194	233	199	151	154	144	145	156	168	210	NW-10
JRS-10	560	549	384	345	424	522	521	510	555	742	JRS-10
JRS-11	55	49	59	44	60	47	44	48	53	46	JRS-11
Arr-Maz	34	30	31	26	33	30	31	31	33	31	Arr-Maz
Lowry	53	48	67	17	61	59	47	50	54	51	Lowry
Torgesen	60	62	68	54	72	71	66	66	74	72	Torgesen
JRS 8			464	265	556	455	464	445	481	577	JRS 8
MW A			1,545	1,546	1121	1,025	708	748	736	1032	MW A
MW B			1,185	1,027	784	1,093	579	1608	1558	1727	MW-B
A-11							188	NS	187	NS	A-11
A-12							33	NS	35	NS	A-12
MW05-1				19	27	24	25	22	23	19	MW05-1
MW05-2				36	49	51	48	43	19	37	MW05-2
MW05-3				67	69	65	69	75	75	66	MW05-3
MW05-4				20	28	30	31	27	29	25	MW05-4
MW05-5				105	70	57	63	81	56	64	MW05-5

NOTE: N.S. = Not Sampled

Table 10 Page 1 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Sodium Concentrations (mg/L)									
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	
A-1	8.36	7.59	6.23	6.49	6.50	7.22	6.77	6.60	6.24	A-1
A-2	4.81	5.12	4.14	4.20	7.10	8.5	5.3	N.S.	N.S.	A-2
A-3	11.98	12.94	13.96	N.S.	N.S.	30	N.S.	N.S.	N.S.	A-3
A-4	8.05	7.14	7.72	8.62	91.20	24	19.5	15.69	27.70	A-4
A-5	19.51	15.64	15.80	16.80	15.40	20.6	16.7	18.06	17.60	A-5
A-6	255.00	334.34	375.00	167.00	122.80	377	167	N.S.	N.S.	A-6
A-7	1,495	959.30	893.00	982.00	815.00	698	648	671	N.S.	A-7
A-8	716.00	574.86	623.00	500.00	N.S.	641	N.S.	N.S.	N.S.	A-8
A-9/A-9A	210.00	N.S.	N.S.	181.00	143.30	235	183	174	140.00	A-9/A-9A
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	17	16.75	16.21	A-10
MF Well	38.50	25.31	19.50	51.90	N.S.	N.S.	N.S.	N.S.	N.S.	MF Well
NW-1	33.01	24.70	18.58	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	NW-1
NW-5	311.40	123.10	188.80	313.00	30.90	16.9	264	249	200.00	NW-5
NW-7	14.05	12.61	13.42	13.10	11.30	14.4	12.4	12.35	12.63	NW-7
NW-8	8.59	9.33	8.30	8.50	8.90	9.83	8.5	8.92	9.00	NW-8
NW-9	N.S.	N.S.	N.S.	71.70	N.S.	N.S.	103.00	N.S.	N.S.	NW-9
NW-10	N.S.	N.S.	N.S.	N.S.	N.S.	14	11.8	12.14	12.86	NW-10
JRS-10	N.S.	6.88	85.29	53.70	11.30	110	99.3	99.65	103.00	JRS-10
JRS-11	N.S.	77.44	9.23	7.10	7.70	9.2	7.6	7.14	7.00	JRS-11
Arr-Maz	N.S.	N.S.	6.91	6.30	6.90	7.7	7.3	6.50	6.38	Arr-Maz
Lowry	N.S.	N.S.	22.99	23.00	22.00	33.5	20.3	32.19	19.72	Lowry
Torgesen	15.91	14.77	16.60	15.04	15.20	133	16.1	15.35	17.00	Torgesen
JRS 8										JRS 8
MW A						Wells not sampled until June 2005				MW A
MW B										MW B

NOTE: N.S. = NOT Sampled

Table 10 Page 2 of 2
SODIUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Sodium Concentrations (mg/L)										
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08	
A-1	5.87	6.57	6.06	6.7	6.1	6.99	6.9	7.1	5.9	7.1	A-1
A-2	N.S.	4.99	N.S.	5.1	4.6	4.72	6.9	6.1	4.5	4.4	A-2
A-3	N.S.	N.S.	N.S.	N.S.	26.9	27.97	31.6	NS	44.0	NS	A-3
A-4	63.00	108	102	133.0	106.0	72.8	72.3	57.4	112.4	87.4	A-4
A-5	17.80	19.0	13.7	18.3	19.5	20.25	21.7	20.1	20.1	2108.0	A-5
A-6	N.S.	N.S.	N.S.	N.S.	279.0	340	265	155.5	331.6	194.9	A-6
A-7	N.S.	N.S.	N.S.	N.S.	569.0	640	549	523.0	582.2	555.6	A-7
A-8	N.S.	N.S.	N.S.	N.S.	532.0	627	576	NS	539.2	NS	A-8
A-9/A-9A	131	132	96	102.0	124.0	184	213	139.4	214.1	185.7	A-9/A-9A
A-10	16.30	17.9	16.2	17.4	15.8	17.53	18.00	16.1	15.2	17.7	A-10
MF Well	N.S.	56.4	50.6	48.0	N.S.	N,S	N.S.	NS	NS	NS	MF Well
NW-1	80.30	116	70	108.0	N.S.	N.S.	N.S.	NS	NS	NS	NW-1
NW-5	277	223	300	63.0	N.S.	18.34	126	125.0	18.2	96.0	NW-5
NW-7	12.0	11.5	12.4	11.5	12.3	13.13	14.0	12.6	11.5	13.2	NW-7
NW-8	9.0	8.55	8.34	8.6	9.0	9.51	9.9	NS	8.3	9.6	NW-8
NW-9	N.S.	95.8	66.5	62.0	85.8	68.81	71.40	62.3	80.1	77.2	NW-9
NW-10	12.0	12.3	13.7	12.0	10.4	11.98	12.9	12.4	10.9	15.4	NW-10
JRS-10	100	92.3	72.9	86.0	73.6	100.20	124	109.0	107.9	126.4	JRS-10
JRS-11	7.0	34.1	8.4	7.3	7.7	8.16	8.5	7.1	7.0	14.1	JRS-11
Arr-Maz	5.75	6.37	7.00	6.5	6.4	7.39	7.28	6.3	6.0	6.9	Arr-Maz
Lowry	22.70	20.4	33.4	21.0	35.8	26.25	29.6	21.2	22.8	21.2	Lowry
Torgesen	15.40	18.20	19.30	18.7	19.8	18.79	23.25	18.1	16.0	19.1	Torgesen
JRS 8			63.5	53.6	78.4	69.84	81.5	69.7	70.9	73.7	JRS 8
MW A			134.0	160.0	108.0	124	103	91.7	93.5	116.4	MW A
MW B			120.0	164.0	86.0	88.9	75.9	166.4	119.0	122.2	MW B
A-11							84.5	NS	80.3	NS	A-11
A-12							29.4	12.3	20.6	NS	A-12
MW05-1				8.0	7.0	8.0	8.0	7.2	7.3	8.6	MW05-1
MW05-2				5.0	5.0	6.0	5.0	4.5	4.3	5.3	MW05-2
MW05-3				8.0	7.0	8.0	8.0	7.1	6.9	8.2	MW05-3
MW05-4				7.0	8.0	7.0	8.0	6.3	6.6	6.8	MW05-4
MW06-5				23.0	20.0	17.0	15.0	15.5	12.9	15.5	MW05-5

NOTE: N.S. = NOT Sampled

Table 11 Page 1 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Aluminum Concentrations (mg/L)									
	Nov-99	Oct-00	Apr-01	Aug-01	Nov-01	Jun-02	Nov-02	May-03	Oct-03	
A-1	0.90	0.49	0.09	0.30	0.13	0.43	1.09	2.05	0.94	A-1
A-2	<0.2	0.15	0.13	0.07	<0.03	0.08	1.27	N.S.	N.S.	A-2
A-3	0.60	0.52	0.22	N.S	N.S.	0.67	N.S.	N.S.	N.S.	A-3
A-4	1.0	0.19	0.22	0.07	0.08	0.54	1.68	5.13	1.99	A-4
A-5	<0.2	<0.2	0.18	0.14	0.05	0.49	1.47	1.01	0.86	A-5
A-6	<0.2	<0.2	0.40	0.13	0.59	0.62	1.94	N.S.	N.S.	A-6
A-7	<0.2	<0.2	0.56	0.15	0.12	0.15	1.51	3.21	N.S.	A-7
A-8	<0.2	<0.2	0.50	0.06	N.S.	0.58	N.S.	N.S.	N.S.	A-8
A-9/A-9A	<0.2	N.S.	N.S.	0.09	0.39	0.22	1.99	1.45	1.23	A-9/A-9A
A-10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	1.45	0.96	0.82	A-10
MF Well	<0.2	0.28	0.13	0.05	N.S.	N.S.	N.S.	N.S.	N.S.	MF Well
NW-1	<0.2	<0.2	0.16	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	NW-1
NW-5	0.30	<0.2	0.27	<0.03	<0.03	0.29	1.97	1.13	1.01	NW-5
NW-7	<0.2	<0.2	0.12	0.08	0.10	0.42	1.41	0.79	0.72	NW-7
NW-8	<0.2	<0.2	0.07	0.05	0.07	0.42	0.94	0.56	0.51	NW-8
NW-9	N.S.	N.S.	N.S.	0.20	N.S.	N.S.	2.06	N.S.	N.S.	NW-9
NW 10	N.S.	N.S.	N.S.	N.S.	N.S.	0.49	1.49	0.85	0.79	NW-10
JRS-10	N.S.	0.13	0.23	0.05	0.09	0.08	1.86	1.28	1.14	JRS-10
JRS-11	N.S.	0.31	0.07	0.08	0.06	0.33	1.32	0.74	0.70	JRS-11
Arr-Maz	N.S.	N.S.	0.20	<0.03	0.11	0.09	1.75	1.01	0.99	Arr-Maz
Lowry	N.S.	N.S.	0.06	<0.03	0.08	0.34	1.14	0.65	0.54	Lowry
Torgesen	<0.2	<0.2	0.16	0.06	0.09	0.34	1.45	0.89	0.86	Torgesen
JRS 8					Wells not sampled until June 2005					JRS 8
MW A										MW A
MW B										MW B

Note: N.S. = not sampled

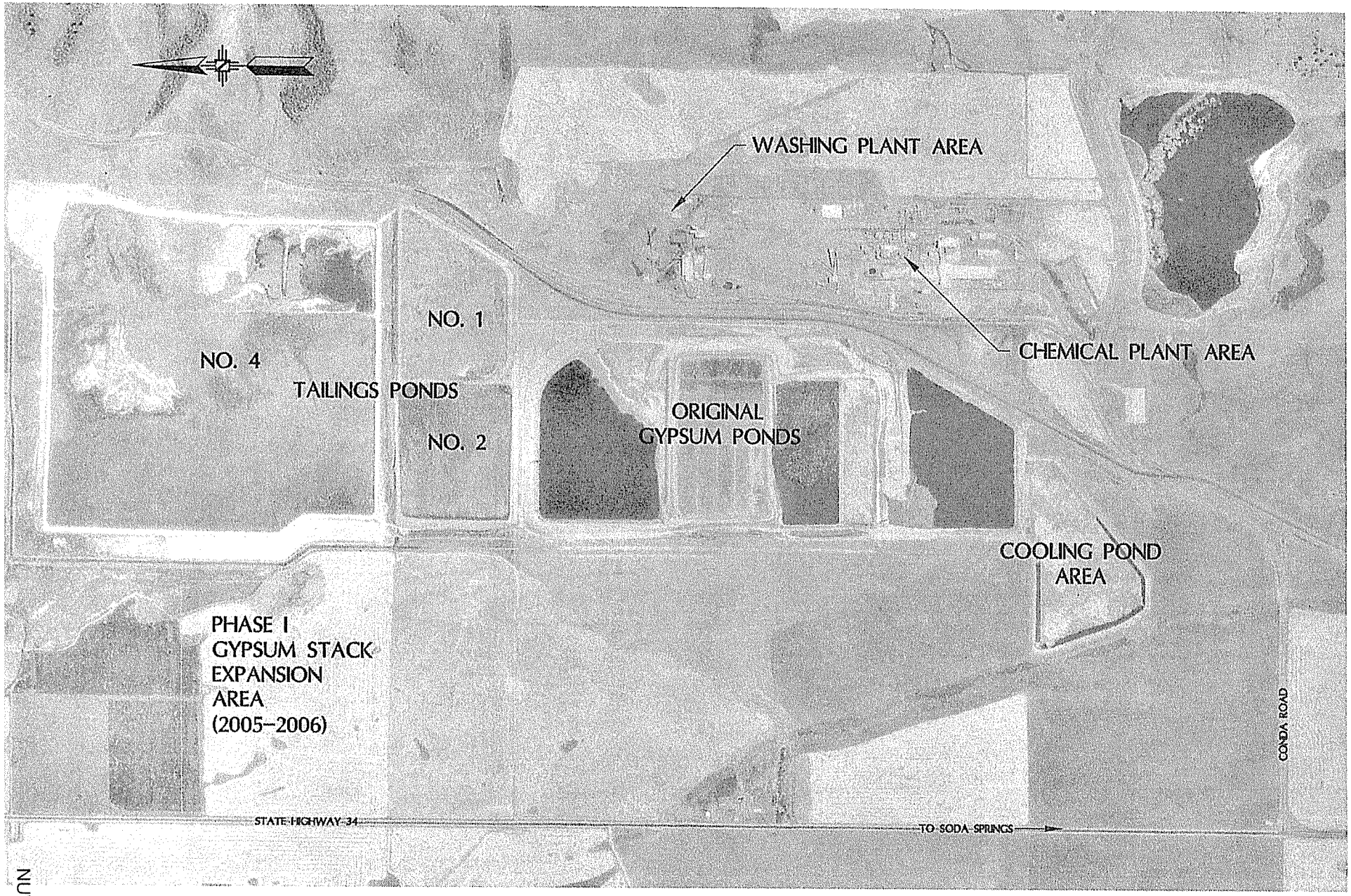
Table 11 Page 2 of 2
ALUMINUM CONCENTRATIONS OVER TIME
AGRIUM U.S., INC. - CONDA PHOSPHATE OPERATIONS
NOVEMBER 1999 THROUGH OCTOBER 2008

Well ID	Aluminum Concentrations (mg/L)										
	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08	
A-1	<0.03	<0.03	0.4	<0.03	<0.03	<0.03	<0.03	<0.03	0.06	0.13	A-1
A-2	N.S.	0.14	N.S.	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.01	A-2
A-3	N.S.	N.S.	N.S.	N.S.	0.05	0.06	<0.03	NS	0.12	NS	A-3
A-4	0.31	0.22	<0.03	0.46	<0.03	<0.03	<0.03	<0.03	0.05	0.03	A-4
A-5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02	<0.01	A-5
A-6	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	0.06	0.05	A-6
A-7	N.S.	N.S.	N.S.	N.S.	<0.03	<0.03	<0.03	<0.03	0.04	0.04	A-7
A-8	N.S.	N.S.	N.S.	N.S.	0.07	0.07	<0.03	NS	0.02	NS	A-8
A-9/A-9A	0.57	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03	0.04	0.01	A-9/A-9A
A-10	<0.03	<0.03	<0.03	0.17	<0.03	0.03	<0.03	<0.03	0.04	0.03	A-10
MF Well	N.S.	<0.03	<0.03	<0.03	N.S	N.S.	N.S.	NS	NS	NS	MF Well
NW-1	1.52	<0.03	0.13	<0.03	N.S	N.S.	N.S.	NS	NS	NS	NW-1
NW-5	<0.03	<0.03	<0.03	<0.03	N.S	<0.03	<0.03	<0.03	0.03	<0.01	NW-5
NW-7	<0.03	<0.03	<0.03	<0.03	<0.03	0.07	0.05	<0.03	0.01	<0.01	NW-7
NW-8	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	NS	0.02	<0.01	NW-8
NW-9	N.S.	94.1	30.7	8.5	20.20	14.50	0.31	0.9	0.77	0.2	NW-9
NW 10	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.02	<0.01	NW-10
JRS-10	<0.03	0.76	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	0.01	<0.01	JRS-10
JRS-11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02	0.01	JRS-11
Arr-Maz	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.02	<0.01	Arr-Maz
Lowry	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02	<0.01	Lowry
Torgesen	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.02	<0.01	Torgesen
JRS 8			<0.03	<0.03	<0.03	0.05	<0.03	<0.03	0.02	<0.01	JRS 8
MW A			6.90	8.90	1.43	2.8	1.30	0.76	1.43	1.41	MW A
MW B			353	308	25.20	26.70	8.9	105	55.12	61.6	MW B
A-11							<0.03	<0.03	0.27	NS	A-11
A-12							<0.03	<0.03	0.11	NS	A-12
MW05-1				<0.03	<0.03	<0.03	<0.03	<0.03	0.02	<0.01	MW05-1
MW05-2				<0.03	<0.03	<0.03	<0.03	<0.03	0.03		MW05-2
MW05-3				<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.01	MW05-3
MW05-4				<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.08	MW05-4
MW05-5				0.11	<0.03	<0.03	<0.03	<0.03	0.02	<0.01	MW05-5

Note: N.S. = not sampled

Figures

NUW 005755



DATE 02-03-02
JOB # NUW0801P
DWG. BY CNT
REVISIONS 8/29/08 PAS
FILE: \\ P:\ NUW0801P\ PLANS\FIG1.DWG

PROJECT
OCTOBER 2008
GROUND WATER SAMPLING
SODA SPRINGS, IDAHO

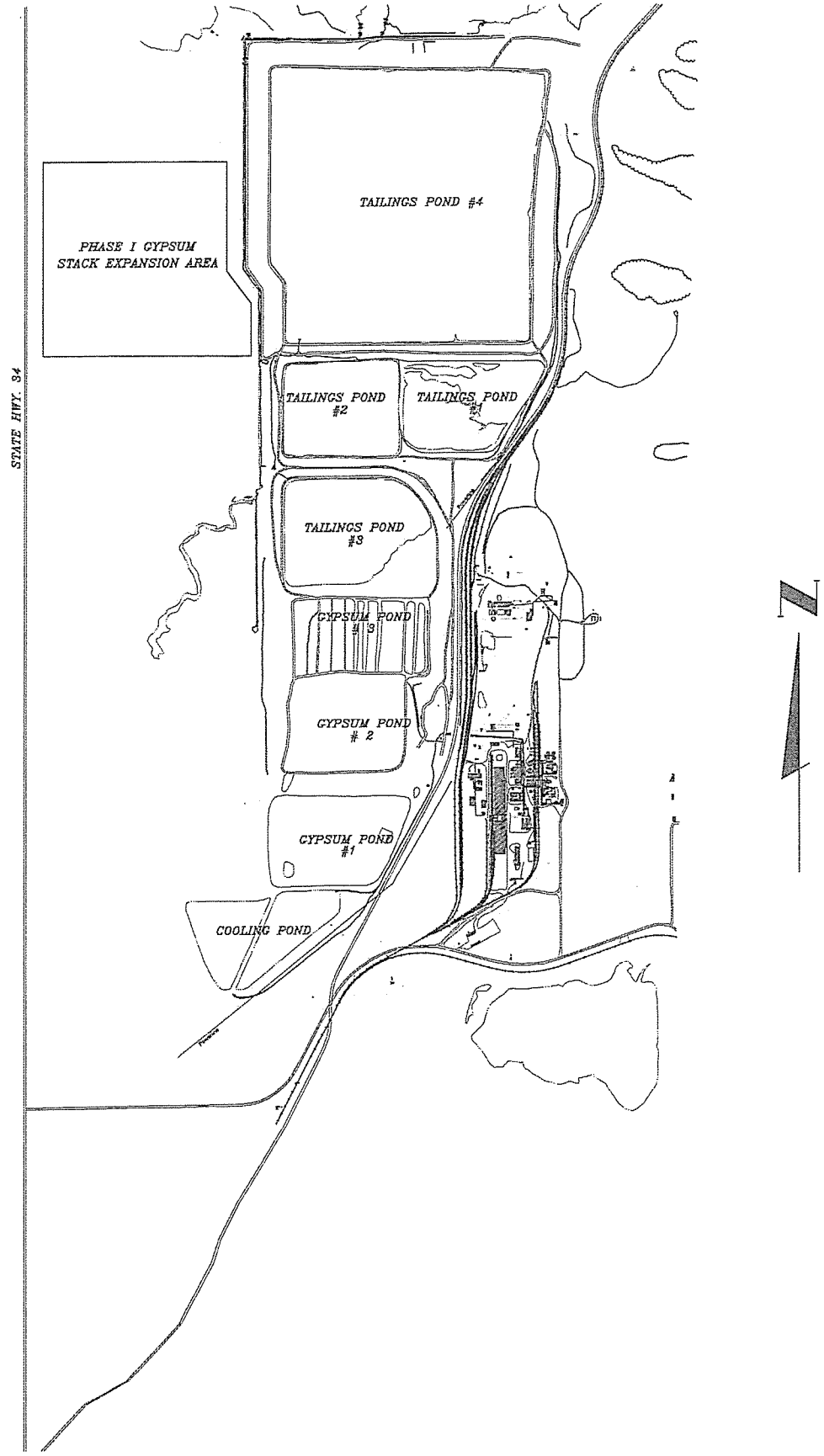
ENGINEERS INC

TITLE
AERIAL PHOTO CPO

(SEAL)

FIGURE
1

NUW 005756



ENGINEERS INC
301 W. COLLEGE AVE.
SUITE #1
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(505)538-5395(OFFICE)
(505)538-5410 (FAX)

FIGURE 2
SITE LAYOUT
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802P

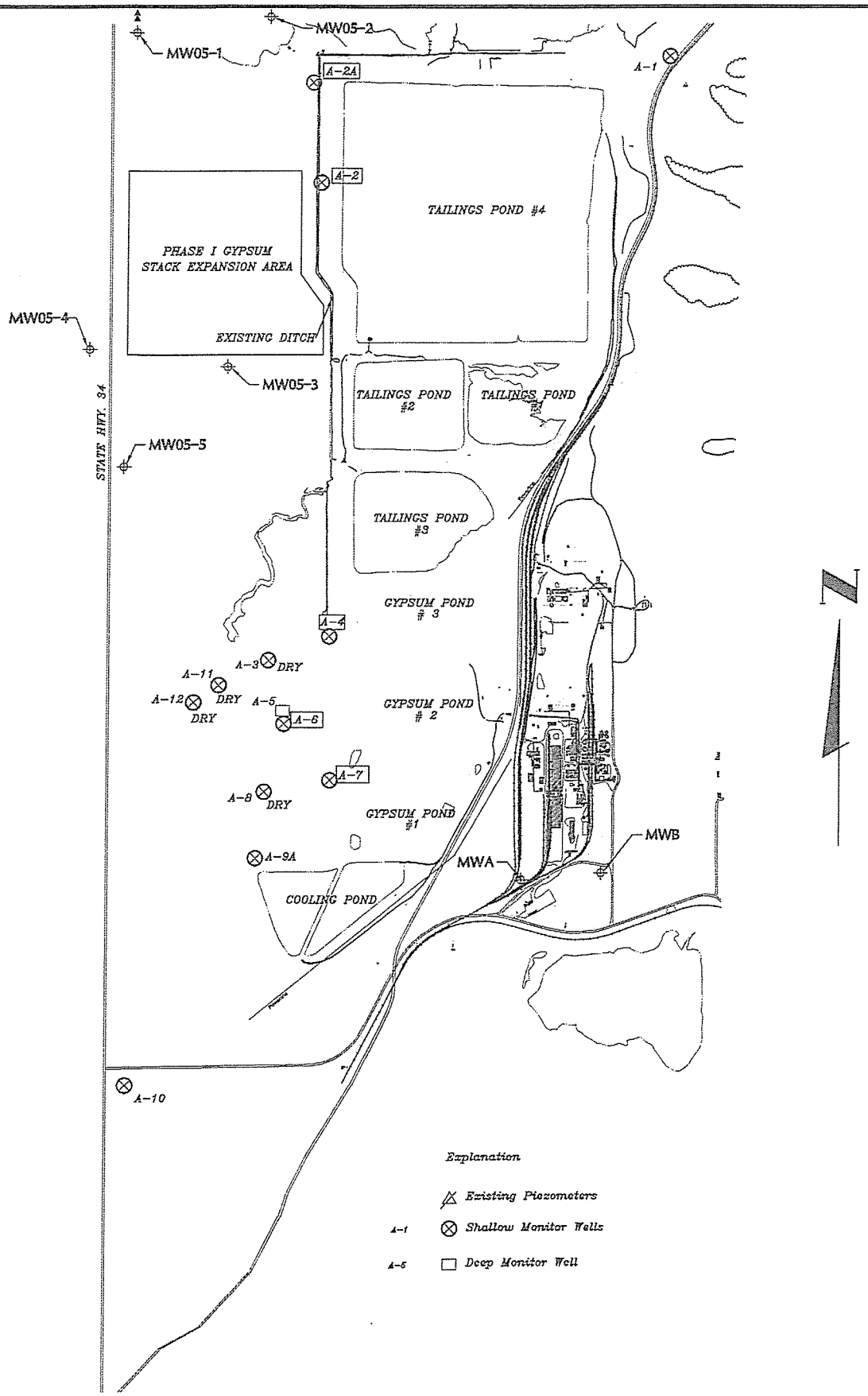

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FIGURE 3
GROUND WATER LEVEL DATA COLLECTION POINTS
OCTOBER 2008
CPO, SODA SPRINGS, IDAHO

DATE: 12-6-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802P

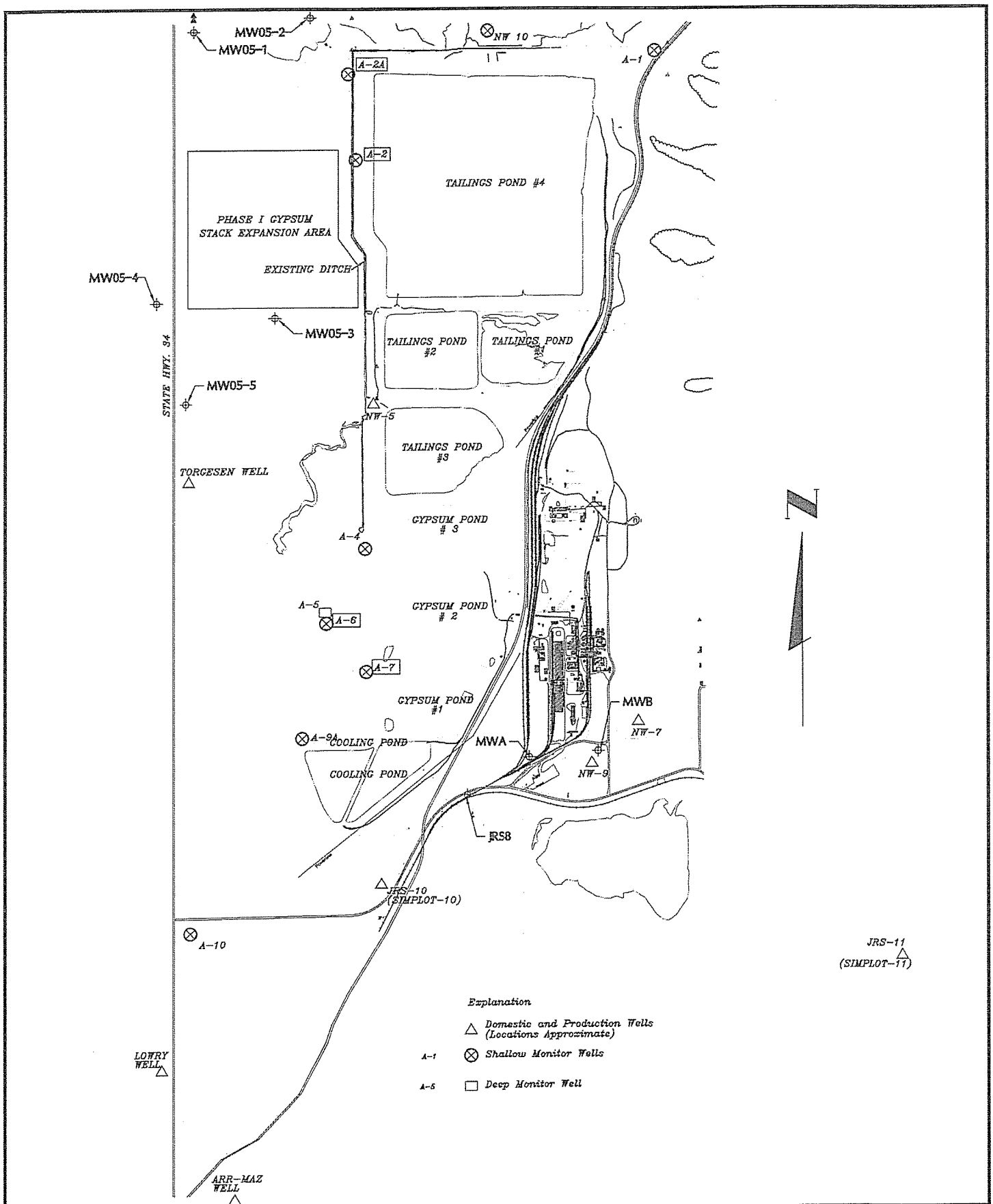

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FIGURE 4
GROUND WATER SAMPLING LOCATIONS
OCTOBER 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 8/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802P

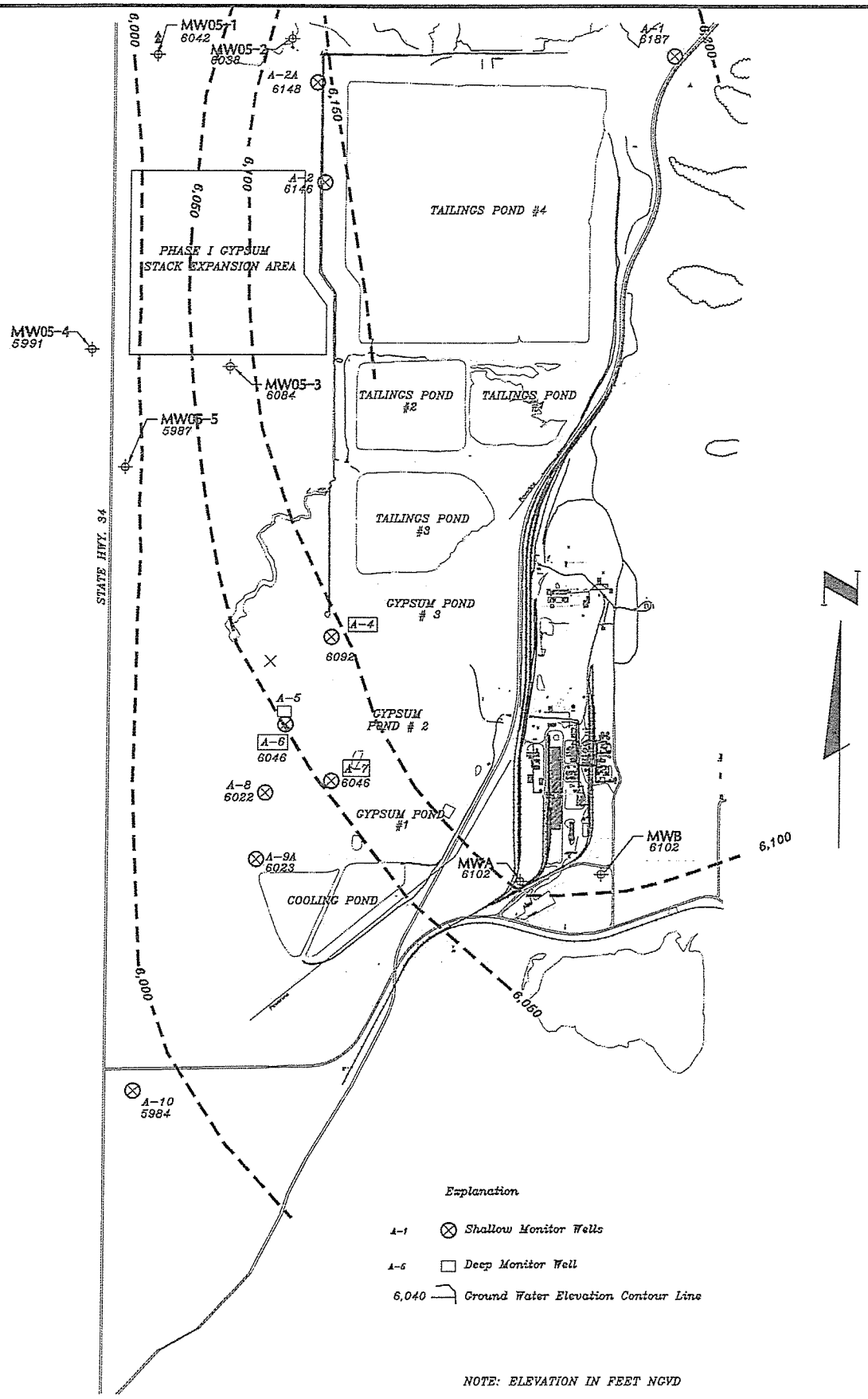

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FIGURE 5
GROUND WATER ELEVATION CONTOUR MAP
OCTOBER 2008
AGRIUM CPO, SODA SPRINGS, IDAHO

DATE: 7-24-02	REVISED: 8/08 PAS	DRAWN BY: TLS/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802P

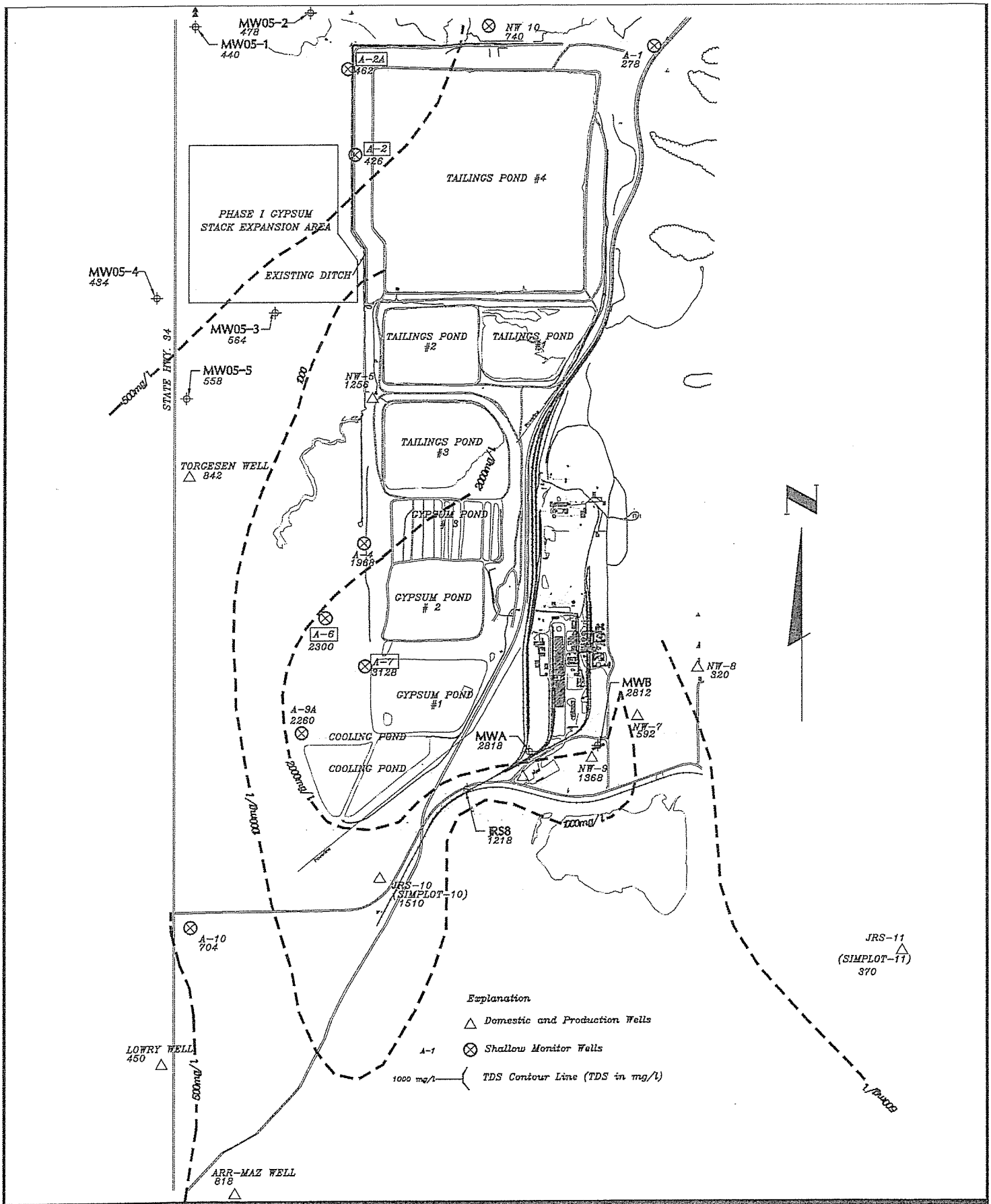

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FIGURE 6
ISOPLETH MAP OF GROUND WATER
TDS CONCENTRATIONS-OCTOBER 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802D

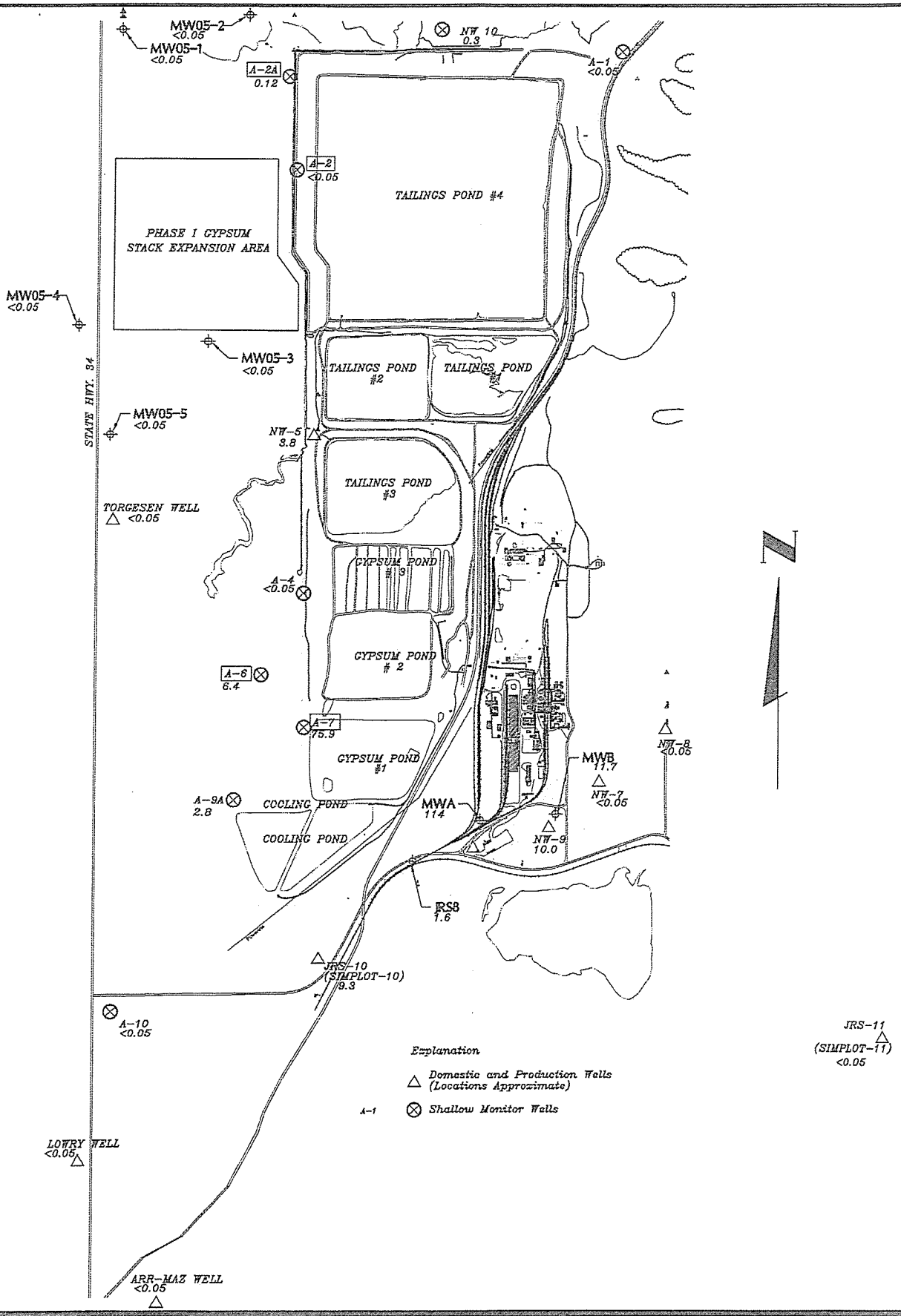

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FIGURE 7
GROUND WATER
AMMONIA CONCENTRATIONS-OCTOBER 2008
CPO, SODA SPRINGS, IDAHO

DATE: 1-9-01	REVISED: 12/08 PAS	DRAWN BY: BJN/MAY	SCALE: 1" = 2000'	PROJECT NO.: NUW0802P

APPENDIX A

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	MW05-1
DAY/DATE	101608 Thurs
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	2
TOP OF CASING ELEVATIN (feet NGVD)	
TOTAL WELL DEPTH (feet) (a)	265
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 118.15

WATER COLUMN HEIGHT (feet) = (a) 265 - (b) 118.15 = (h) 146.85

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 24.08

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 72.24

PUMPING RATE 312.78 Hz 4.5A

[Volume of Container (gallons)] 4 / 2.00 [Fill time (minutes)] = 2.00 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1730	7.49	521	8.7		Clear
2	1740	7.47	521	9.0		Clear
3	1750	7.46	528	8.9		Clear
4	1800	7.46	534	8.9		Clear
5						
Sample	1810	7.49	533	8.9		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101608

NUW 005764

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-2

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2in

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 97

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 22.11

WATER COLUMN HEIGHT (feet) = (a) 97 - (b) 22.11 = (h) 74.89

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 12.3

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 36.8

PUMPING RATE 19.6 Volt

[Volume of Container (gallons)] 4 / 1.3 [Fill time (minutes)] = 3.1 gallons/minute 11.9 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1000	7.60	525	7.4		rusty
2	1005	7.55	523	7.4		clear
3	1010	7.54	523	7.4		clear
4.						
5						
Sample	1015	7.53	523	7.4		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 50

Signature of Sampling Personnel: Ree Ree Pattie Date 101708

NUW 005765

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-4

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2 in

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 183.62

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 183.62 = (h) 76.38

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 12.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 37.6

PUMPING RATE 334.76 Hz 4.0 A

[Volume of Container (gallons)] 4 / 2.25 [Fill time (minutes)] = 1.8 gallons/minute 21 min.

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0915	7.64	530	8.2		cloudy
2	0920	7.61	515	8.4		clear
3	0925	7.60	522	8.5		clear
4	0930	7.60	519	8.5		clear
5	0935	7.61	520	8.5		clear
Sample	0940	7.61	519	8.5		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 200'

Signature of Sampling Personnel: Dee Dee Pattee Date 101708

NUW 005766

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME	101608	0900	
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4.01	7.00	10.02
Conductance (umhos/cm)	1413	RP	
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	cloudy		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MW05-5

DAY/DATE: 101608 Thurs

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 260

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite Offsite (Offsite circled)

Monito (circled) Domestic Production

DEPTH TO WATER (feet): (b) 190.65

WATER COLUMN HEIGHT (feet) = (a) 260 - (b) 190.65 = (h) 69.35

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 11.37

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 34.11

PUMPING RATE 344.78Hz 4.6A

[Volume of Container (gallons)] 4 / 3.33 [Fill time (minutes)] = 1.20 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1640	7.07	594	9.1		Cloudy 30min
2	1650	6.98	597	8.6		clear
3	1700	7.04	597	8.7		clear
4						
5						
Sample	1710	7.03	599	8.7		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 210

Signature of Sampling Personnel: Taylor Potter

Date 101608

NUW 005767

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: DUP (MW05-4)

DAY/DATE: 101708 FRI

PERSONNEL: RP DP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WELL TYPE: Onsite Offsite Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	0940	7.61	519	8.5		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWA

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 53.73

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 53.73 = (h) 66.27

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 10.87

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 32.61

PUMPING RATE 20.0 V

[Volume of Container (gallons)] 4 / 1.67 [Fill time (minutes)] = 2.40 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1005	6.21	1529	10.0		clear
2	1010	6.07	1600	10.0		clear
3	1015	6.05	1621	10.1		clear
4						
5						
Sample	1020	6.04	1631	10.1		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potter Date 101808

NUW 005769

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: MWB

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 120

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 60.96

WATER COLUMN HEIGHT (feet) = (a) 120 - (b) 60.96 = (h) 59.04

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.68

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 29.04

PUMPING RATE: 20 v

[Volume of Container (gallons)] 4 / 2.25 [Fill time (minutes)] = 1.77 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1035	5.44	1099	11.9		cloudy
2	1040	5.32	1124	12.3		clear
3	1045	5.28	1145	12.4		clear
4	1050	5.23	1165	12.5		clear
5						
Sample	1055	5.23	1172	12.5		clear

17min

SAMPLE DESCRIPTION:

NOTES: Pump set @ 80

Signature of Sampling Personnel: Taylor Potts

Date 101808

NUW 005770

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT Agrium CPO / Engineers Inc

SITE NAME Conda Phosphate Operations

SITE LOCATION Soda Springs, Idaho

WELL ID NW-5

DAY/DATE 101708 FRI

PERSONNEL RP DP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE RUNNING

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air SUNNY

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1035	7.20	854	14.4		Clear
2						
3						
4						
5						
Sample	1040	7.20	853	14.4		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

NUW 005771

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW7

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 6.5

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0930	7.88	541	9.1		clear
2	0935	7.88	542	9.0		clear
3	0940	7.86	543	9.0		clear
4						
5						
Sample	0945	7.85	543	9.0		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potter Date 101808

NUW 005772

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW8

DAY/DATE: 101808 Sat

PERSONNEL: RP JP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air SUNNY

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) 0.3

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0905	8.10	366	10.1		clear
2	0910	8.03	367	10.8		clear
3	0915	8.11	367	10.9		clear
4.						
5						
Sample	0920	8.08	367	11.0		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 101808

NUW 005773

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW 9

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

EQUIPMENT CALIBRATION

DATE/TIME _____

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm) _____

Turbidity (NTU) _____

D.O. (mg/L) 100% _____

@ 100% air

WELL TYPE (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 0

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1105	6.53	743	10.1		clear
2	1110	6.86	865	10.0		clear
3						
4						
5						
Sample	1115	6.91	940	9.9		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 101808

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: NW10

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

EQUIPMENT CALIBRATION

DATE/TIME _____

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm) _____

Turbidity (NTU) _____

D.O. (mg/L) 100% _____

@ 100% air

WELL TYPE (Onsite) Offsite

Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) 134.3

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1350	7.55	577	10.0		Cloudy
2	1355	7.70	579	9.3		clear
3						
4						
5						
Sample	1400	7.85	578	9.3		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 101808

NUW 005775

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	SUNNY		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: EQ BLANK

DAY/DATE: 101808 SAT

PERSONNEL: TP RP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample	1100	6.9	1.0	20.1		CLEAR

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 101808

NUW 005776

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A1

DAY/DATE: 101808 Sat

PERSONNEL: RP-TP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 67

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: (Onsite) Offsite

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 34.73

WATER COLUMN HEIGHT (feet) = (a) 67 - (b) 34.73 = (h) 32.27

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 5.29

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 15.87

PUMPING RATE 15v

[Volume of Container (gallons)] 4 / 3 [Fill time (minutes)] = 1.33 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1320	7.35	349	10.1		Cloudy
2	1325	7.45	335	10.6		Slightly Cloudy
3	1330	7.48	332	10.8		Clear
4						
5						
Sample	1335	7.57	333	11.7		Clear

12min

SAMPLE DESCRIPTION:

NOTES: Pump set @ 62

Signature of Sampling Personnel: Taylor Potts

Date 101808

NUW 005777

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A2

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2in

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 30

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 10.60

WATER COLUMN HEIGHT (feet) = (a) 30 - (b) 10.60 = (h) 19.4

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 3.2

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 9.5

PUMPING RATE 281.88 Hz 3.5 A

[Volume of Container (gallons)] 4 / 1 [Fill time (minutes)] = 4 gallons/minute 2.4 min.

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1535	7.44	516	13.6		clear
2	1540	7.51	516	13.6		clear
3						
4						
5						
Sample	1545	7.52	513	13.6		clear

SAMPLE DESCRIPTION:

NOTES: Water in ditch pump set @ 25'

Signature of Sampling Personnel: [signature] Date 101708

NUW 005778

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A2A

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2in.

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 168

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 12.69

WATER COLUMN HEIGHT (feet) = (a) 168 - (b) 12.69 = (h) 155.31

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 25.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 76.4

PUMPING RATE 303.25 Hz 3.9 A

[Volume of Container (gallons)] 4 / 1 [Fill time (minutes)] = 4 gallons/minute 19.1 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1615	7.48	528	8.5		clear
2	1620	7.48	530	8.5		clear
3	1625	7.46	528	8.5		clear
4	1630	7.47	531	8.4		clear
5						
Sample	1635	7.46	518	8.5		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 40ft. water in ditch

Signature of Sampling Personnel: [signature] Date 101708

NUW 005779

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A3

DAY/DATE: 101708 Fri.

PERSONNEL: RP DP

WELL DIAMETER (inches) (d)

TOP OF CASING ELEVATIN (feet NGVD)

TOTAL WELL DEPTH (feet) (a)

GROUND WATER ELEVATION (feet NGVD)

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm)

Turbidity (NTU)

D.O. (mg/L) 100%

@ 100% air Sunny

WELL TYPE: Onsite (Offsite)

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 105.75

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION:

won't produce - NO sample

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

NUW 005780

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A4

DAY/DATE: 101708 Fri.

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2 in.

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

TOTAL WELL DEPTH (feet) (a): 115

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 57.35

WATER COLUMN HEIGHT (feet) = (a) 115 - (b) 57.35 = (h) 57.65

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 28.4

PUMPING RATE: 300.85 Hz 3.7A

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.7 gallons/minute 10.5 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1410	6.38	1106	8.6		clear
2	1415	6.39	1111	8.7		clear
3	1420	6.37	1133	7.7		clear
4						
5						
Sample	1425	6.39	1133	7.8		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 80'

Signature of Sampling Personnel: [signature] Date 101708

NUW 005781

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A5

DAY/DATE: 101708 FRI

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 213

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) 96.29

WATER COLUMN HEIGHT (feet) = (a) 213 - (b) 96.29 = (h) 116.71

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 19.1

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 57.4

PUMPING RATE 308.44 Hz 3.7A

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.7 gallons/minute

21.2

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1220	7.09	811	9.6		Clear
2	1225	7.11	809	9.6		Clear
3	1230	7.10	806	9.6		Clear
4	1235	7.11	811	9.6		Clear
5	1240	7.10	811	9.6		Clear
Sample	1245	7.10	811	9.6		Clear

SAMPLE DESCRIPTION:

pump set @ 140'

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

NUW 005782

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A6

DAY/DATE: 101708 FRI

PERSONNEL: RP. DP

WELL DIAMETER (inches) (d): 2

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a): 119

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) (Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 108.73

WATER COLUMN HEIGHT (feet) = (a) 119 - (b) 108.73 = (h) 10.27

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 1.7

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 5.1

PUMPING RATE 308.44 Hz 3.7A

[Volume of Container (gallons)] 4 / 1.5 [Fill time (minutes)] = 2.7 gallons/minute

1.9

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1150	6.62	1228	9.4		Cloudy
2						
3						
4.						
5						
Sample	1155	6.58	1227	9.4		CLEAR

SAMPLE DESCRIPTION:

pump set 115'

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

NUW 005783

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A7

DAY/DATE: 101708 Fri.

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2 in.

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 121

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 104.16

WATER COLUMN HEIGHT (feet) = (a) 121 - (b) 104.16 = (h) 16.84

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 2.8

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 8.3

PUMPING RATE 303.08 Hz 3.7A

[Volume of Container (gallons)] 4 / 1.75 [Fill time (minutes)] = 2.3 gallons/minute 3.6 min.

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1445	6.49	1734	13.2		cloudy
2	1450	6.48	1775	13.2		clear
3						
4						
5						
Sample	1455	6.48	1778	13.2		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 115'

Signature of Sampling Personnel: [signature] Date 101708

NUW 005784

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A8

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

EQUIPMENT CALIBRATION

DATE/TIME _____

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.) 4 7 10

Conductance (umhos/cm) _____

Turbidity (NTU) _____

D.O. (mg/L) 100% _____

@ 100% air Sunny

WELL TYPE: Onsite (Offsite)

(Monitor) Domestic Production

DEPTH TO WATER (feet): (b) 127.22

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION:

Won't produce - NO Sample

NOTES:

Signature of Sampling Personnel: [signature] Date 101708

NUW 005785

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A9A

DAY/DATE: 101708 Fri.

PERSONNEL: RP DP

WELL DIAMETER (inches) (d): 2 in.

TOP OF CASING ELEVATIN (feet NGVD): _____

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 151

GROUND WATER ELEVATION (feet NGVD): _____

DEPTH TO WATER (feet): (b) 123.79

WATER COLUMN HEIGHT (feet) = (a) 151 - (b) 123.79 = (h) 27.21

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 4.5

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 13.4

PUMPING RATE 305.11 Hz 3.7 A

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute 6.7 min.

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1115	6.64	11.86	9.4		cloudy
2	1120	6.63	11.97	9.5		clear
3						
4						
5						
Sample	1125	6.62	12.19	9.5		clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 140'

Signature of Sampling Personnel: Dee Dee Pattie Date 101708

NUW 005786

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A10

DAY/DATE: 101708 Fri

PERSONNEL: RPDP

WELL DIAMETER (inches) (d): 2 in.

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 199

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 140.20

WATER COLUMN HEIGHT (feet) = (a) 199 - (b) 140.20 = (h) 58.8

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = 9.6

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 28.9

PUMPING RATE 305.84 Hz. 3.7A

[Volume of Container (gallons)] 4 / 2.17 [Fill time (minutes)] = 1.8 gallons/minute

16 min

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	0840	7.37	633	9.0		Cloudy
2	0845	7.31	633	9.2		Slt Cloudy
3	0850	7.29	639	9.4		Clear
4	0855	7.27	641	9.5		Clear
5						
Sample	0900	7.29	639	9.5		Clear

SAMPLE DESCRIPTION:

NOTES: pump set @ 160'

Signature of Sampling Personnel: [signature] Date 10/17/08

NUW 005787

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L)	100%		
@ 100% air	Sunny		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A-11

DAY/DATE: 101708 Fri

PERSONNEL: RP DP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 142.54

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION:

Won't produce - NO SAMPLE

NOTES:

Signature of Sampling Personnel: Wee Wee Pattie Date 101708

NUW 005788

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: A12

DAY/DATE: 101808 Sat

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

WELL TYPE: Onsite Offsite Monitor Domestic Production

TOTAL WELL DEPTH (feet) (a): 116 — measured

GROUND WATER ELEVATION (feet NGVD):

DEPTH TO WATER (feet): (b) 114.26

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1						
2						
3						
4						
5						
Sample						

SAMPLE DESCRIPTION:

NOTES: Access restricted / Electric Fence

Signature of Sampling Personnel: Taylor Potts

Date 101808

NUW 005789

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Armaz

DAY/DATE: 102008

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite) Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1235	7.34	536	16.8		clear
2	1240	7.10	534	16.6		clear
3	1245	7.08	534	16.6		clear
4.						
5						
Sample	1250	7.06	534	16.5		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Poole Date 102008

NUW 005790

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: 18WY

DAY/DATE: 102008 Mon

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor (Domestic) Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1550	7.66	433	8.6		Clear
2	1555	7.65	430	8.9		Clear
3						
4						
5						
Sample	1600	7.65	432	8.8		Clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 102008

NUW 005791

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: Jorgesen

DAY/DATE: 102008 Mon

PERSONNEL: RP TP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite)

Monitor (Domestic) Production

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1530	7.22	662	7.7		clear
2	1535	7.42	650	7.8		clear
3						
4						
5						
Sample	1540	7.50	633	6.9		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potts Date 102008

NUW 005792

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

CLIENT	Agrium CPO / Engineers Inc
SITE NAME	Conda Phosphate Operations
SITE LOCATION	Soda Springs, Idaho
WELL ID	JRS 10
DAY/DATE	102008 Mon
PERSONNEL	RP TP
WELL DIAMETER (inches) (d)	
TOP OF CASING ELEVATIN (feet NGVD)	
TOTAL WELL DEPTH (feet) (a)	
GROUND WATER ELEVATION (feet NGVD)	

EQUIPMENT CALIBRATION

DATE/TIME

CALIBRATION STANDARDS & METERS READINGS

pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

WELL TYPE Onsite Offsite

Monitor Domestic Production

DEPTH TO WATER (feet): (b)

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 =

PUMPING RATE

[Volume of Container (gallons)] / [Fill time (minutes)] = gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1400	6.86	831	10.4		clear
2	1405	6.76	853	9.8		clear
3						
4						
5						
Sample	1410	6.76	848	9.8		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor Potter

Date 102008

NUW 005793

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 11

DAY/DATE: 102008 Mon

PERSONNEL: RP JP

WELL DIAMETER (inches) (d) _____

TOP OF CASING ELEVATIN (feet NGVD) _____

TOTAL WELL DEPTH (feet) (a) _____

GROUND WATER ELEVATION (feet NGVD) _____

WELL TYPE: Onsite (Offsite) Monitor Domestic (Production)

DEPTH TO WATER (feet): (b) _____

WATER COLUMN HEIGHT (feet) = (a) _____ - (b) _____ = (h) _____

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) = _____

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = _____

PUMPING RATE _____

[Volume of Container (gallons)] _____ / _____ [Fill time (minutes)] = _____ gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1320	7.84	394	9.6		clear
2	1325	7.65	390	9.4		clear
3						
4						
5						
Sample	1330	7.59	390	9.3		clear

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: Taylor [illegible] Date 10 2008

NUW 005794

AQUATECH LLC P.O. BOX 2817 POCATELLO, IDAHO 83206 PHONE 208-251-1811

WELL PURGE/SAMPLING DATA SHEET

EQUIPMENT CALIBRATION			
DATE/TIME			
CALIBRATION STANDARDS & METERS READINGS			
pH (s.u.)	4	7	10
Conductance (umhos/cm)			
Turbidity (NTU)			
D.O. (mg/L) @ 100% air	100%		

CLIENT: Agrium CPO / Engineers Inc

SITE NAME: Conda Phosphate Operations

SITE LOCATION: Soda Springs, Idaho

WELL ID: JRS 8

DAY/DATE: 102008 Mon

PERSONNEL: RP TP

WELL DIAMETER (inches) (d):

TOP OF CASING ELEVATIN (feet NGVD):

TOTAL WELL DEPTH (feet) (a):

GROUND WATER ELEVATION (feet NGVD):

WELL TYPE: Onsite (Offsite) Monitor Domestic Production

DEPTH TO WATER (feet): (b) 61.65

WATER COLUMN HEIGHT (feet) = (a) - (b) = (h)

WATER COLUMN VOLUME (gallons) (wv)=0.041 $(d)^2$ (h) =

MINIMUM PURGE VOLUME (gallons)= (wv) X 3 = 70

PUMPING RATE

[Volume of Container (gallons)] 4 / 2 [Fill time (minutes)] = 2 gallons/minute

Well Volume / Sample	Time (hh:mm)	pH (std. Units)	Specific Conductance (umhos/cm)	Temperature (C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
1	1425	6.91	742	9.4		Clear
2	1435	6.66	736	9.0		clear
3	1445	6.63	740	9.0		clear
4	1455	6.65	743	9.2		clear
5						
Sample	1505	6.60	748	9.0		clear

35 min

SAMPLE DESCRIPTION:

NOTES:

Signature of Sampling Personnel: [signature] Date 102008

NUW 005795

APPENDIX B

Appendix B Page 1 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through October 2008

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)								
			Nov-99	Oct-00	Apr-01	Jul-01	Nov-01	Jun-02	Oct-02	May-03	Oct-03
A-1	6,221.71	6,155.01	6188.4	6188.0	6188.7	6191.8	6192.9	6189.9	6188.2	6188.4	6188.5
A-2	6,156.75	6,126.55	6145.0	6146.5	6147.2	6144.8	6145.2	6143.3	6138.4	6127.1	
A-3	6,149.77	6,041.77	6068.4	6050.3	6053.9	6043.0		6054.7			
A-4	6,149.83	6,034.43	6095.5	6096.1	6099.2	6087.5	6089.1	6104.2	6085.1	6083.4	6067.7
A-5	6,150.42	5,937.42	6064.9	6061.0	6061.4	6056.1	6050.2	6065.8	6051.1	6049.6	6036.3
A-6	6,150.18	6,031.08	6055.7	6046.7	6043.9	6041.7	6033.9	6052.1	6037.9	6032.6	
A-7	6,150.47	6,029.27	6063.3	6053.2	6052.9	6051.1	6041.4	6058.8	6042.4	6039.8	6030.6
A-8	6,148.99	6,021.89	6051.5	6035.7	6034.7	6033.8		6039.2	6022.7		
A-9/A-9A	6,146.25	5,995.25	6054.8	6038.7	6038.3	6035.5	6022.1	6040.6	6024.4	6020.1	6012.1
A-10	6,124.25	5,925.15							5985.2	5986.6	5983.1

NUW 005797

Appendix B Page 2 of 2
Monitor Well and Piezometer Water Level Data
November 1999 through October 2008

Well ID	Well TOC Elevation (ft. NGVD)	Well Bottom Elevation (ft. NGVD)	Water Level Collection Date and Water Elevation (feet NGVD)									
			May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08
A-1	6,221.7	6,155.0	6,188.2	6,186.8	6,189.7	6,190.7	6,189.0	6,190.7	6,187.8	6,187.7	6,188.4	6187
A-2	6,156.8	6,126.6		6,134.7	6,127.0	6,146.0	6,144.9	6,144.8	6,139.6	6,146.8	6,145.9	6146.2
A-3	6,149.8	6,041.8					6,060.4	6,062.8	6,056.0	dry	6,054.4	<6044
A-4	6,149.8	6,034.4	6,063.3	6,057.5	6,062.4	6,062.8	6,111.5	6,111.5	6,102.4	6,080.8	6,104.6	6092.4
A-5	6,150.4	5,937.4	6,033.4	6,030.1	6,032.4	6,029.2	6,067.0	6,066.9	6,064.9	6,046.0	6,061.3	6054.1
A-6	6,150.2	6,031.1			6,033.4	6,031.9	6,044.2	6,054.2	6,054.1	6,038.2	6,046.4	6041.5
A-7	6,150.5	6,029.3	6,029.6				6,063.8	6,058.5	6,059.0	6,038.5	6,052.8	6046.5
A-8	6,149.0	6,021.9					6,037.0	6,035.0	6,041.6	6,021.5	6,026.6	6021.8
A-9/A-9A	6,146.3	5,995.3	6,011.4	6,009.8	6,011.4	6,010.4	6,039.7	6,036.3	6,043.3	6,018.3	6,027.9	6022.5
A-10	6,124.3	5,925.2	5,985.2	5,982.5	5,988.3	5,983.3	5,992.0	5,988.3	5,991.2	5,986.3	5,986.6	5984.1
MW05-1							6,057.6	6,049.2	6,054.2	6,045.0	6,046.4	6041.5
MW05-2							6,144.3	6,147.0	6,145.6	6,145.4	6,145.1	6137.9
MW05-3							6,104.0	6,104.5	6,092.7	6,072.0	6,096.0	6083.9
MW05-4							6,002.0	6,003.0	6,005.0	5,991.0	5,994.1	6083.9
MW05-5							5,999.8	6,002.2	6,002.8	5,988.0	5,993.3	5987.4
MWA						6,087.70	6,103.8	6,101.8	6,103.3	6,099.8	6,103.7	6102.1
MWB						6,089.40	6,103.2	6,101.7	6,102.1	6,100.3	6,101.3	6101.6
A-11									6,025.3	dry	6,008.2	<6004.5
A-12									6,041.3	6,015.0	6,016.3	<6010

NUW 005798

APPENDIX C

Date submitted 10.
Date Reported 10/

10086020	110086017	110086016	110086007	110086009	110086010	110086011	110086012	110086021	110085998	110086008
JRS-11	TORGESEN	ARRMAZ	NW-5	NW-7	NW-8	NW-9	NW-10	JRS-8	DUPLICATE	A-1
/20/08 13:30	10/20/08 15:40	10/20/08 12:50	10/17/08 10:40	10/18/08 9:45	10/18/08 9:20	10/18/08 11:15	10/18/08 14:00	10/20/08 15:05	10/17/08 9:40	10/18/08 13:35
250	380	740	580	260	220	240	380	300	360	240
< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
250	380	740	580	260	220	240	380	300	360	240
< 0.05	< 0.05	< 0.05	3.76	< 0.05	< 0.05	3.43	0.26	1.59	< 0.05	< 0.05
16	69	3	17	18	9	74	7	49	7	16
1.14	52.11	< 1.00	2.88	3.37	2.87	16.44	< 1.00	14.84	2.19	< 1.00
0.03	0.08	0.03	7.31	0.07	0.05	5.86	0.01	1.05	0.04	0.07
643	1313	1272	1646	867	534	1656	1066	1532	772	515
46	72	31	453	160	23	677	210	577	25	4
370	842	818	1256	592	320	1368	740	1218	440	278
< 0.5	< 0.5	< 0.5	5.3	< 0.5	< 0.5	3.9	< 0.5	2.50	< 0.5	< 0.5
0.15	0.11	0.10	7.76	0.10	0.06	10.65	0.16	1.21	0.07	0.29
< 2	< 2	< 2	< 2	< 2	< 2	61	< 2	< 2	13	22
7.5	7.6	7.1	6.8	7.7	7.7	6.6	7.7	6.5	7.6	7.6
0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.20	0.01	< 0.01	0.03	0.13
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	0.004	0.001	0.001	0.004	< 0.001	0.003	< 0.001	< 0.001
0.045	0.092	0.102	0.063	0.146	0.163	0.013	0.131	0.051	0.066	0.083
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.012	< 0.001	< 0.001	< 0.001	< 0.001
89.81	172.20	222.50	193.80	113.60	69.89	198.90	132.90	211.60	95.49	69.22
< 0.001	0.001	< 0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001	0.002	0.005
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.013	0.002	< 0.001	< 0.001	< 0.001
0.010	0.003	0.004	0.247	0.001	0.001	0.002	< 0.001	0.002	< 0.001	0.001
0.01	< 0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01	0.229	< 0.01	0.06	0.07
0.001	< 0.001	< 0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
16.34	74.84	68.48	87.60	35.54	19.33	91.17	68.40	59.62	47.51	19.58
< 0.001	0.002	< 0.001	0.142	< 0.001	< 0.001	1.087	0.786	0.353	0.005	0.003
< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
0.001	< 0.001	0.002	0.003	0.001	< 0.001	0.071	0.002	0.011	0.001	0.001
1.31	4.45	5.32	11.24	5.29	5.01	7.47	3.79	8.21	2.95	1.58
0.032	0.002	< 0.001	0.010	0.021	0.003	0.009	< 0.001	0.010	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
14.12	19.11	6.85	96.10	13.18	9.63	77.18	15.38	73.66	7.00	7.11
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
< 0.001	0.003	0.001	0.004	0.003	0.003	0.017	< 0.001	0.003	0.003	0.004
0.287	0.033	0.177	0.081	0.008	0.006	0.049	0.007	0.013	0.007	0.008
< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	22.5	< 0.5	0.6	< 0.5	< 0.5
1.1	52.1	< 0.5	8.2	3.4	2.9	20.4	< 0.5	17.3	2.2	< 0.5
3.6	1.6	0.8	0.8	2.8	2.4	2.2	0.6	1.1	0.4	2.5
2	4.7	5.1	11	5.9	5.9	9.8	5.7	7.5	2.9	1.8

NUW 00580
orm for sample type and methodology
ss or implied, including warranty of

)02	110086003	110086005	110086004	110086006	110086015	110086013	110086014	110085993	110085994	110085995	
	A-6	A-9A	A-7	A-10	EQ BLANK	MW A	MW B	MW 05-01	MW 05-02	MW 05-03	
12:45	10/17/08 11:55	10/17/08 11:25	10/17/08 14:55	10/17/08 9:00	10/18/08 11:00	10/18/08 10:20	10/18/08 10:55	10/16/08 18:10	10/17/08 10:15	10/16/08 19:25	1(
	1100	1040	1300	440	< 5	60	< 5	390	380	460	
	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
	1100	1040	1300	440	< 5	60	< 5	390	380	460	
5	6.41	2.84	75.93	< 0.05	< 0.05	113.70	11.71	< 0.05	< 0.05	< 0.05	
	42	44	22	24	< 1	328	71	4	3	4	
)	7.44	8.86	3.95	7.05	< 1.00	207.00	5.39	1.21	< 1.00	< 1.00	
	14.94	2.52	81.98	0.06	< 0.01	19.77	168.30	0.03	0.03	0.04	
	2550	2570	3740	1059	1.6	3080	2120	777	806	950	
	897	906	1552	93	< 1	1032	1727	19	37	66	
	2300	2260	3128	704	< 2	2818	2812	440	478	564	
	9.2	2.8	77.5	< 0.5	< 0.5	139.3	14.6	< 0.5	< 0.5	< 0.5	
	15.33	3.30	84.65	0.11	< 0.01	19.50	185.18	0.04	0.04	0.10	
	28	< 2	35	2	< 2	< 2	48	< 2	< 2	3	
	6.6	6.7	6.8	7.7	5.0	5.9	4.4	7.4	7.4	7.5	
	0.05	0.01	0.04	0.03	0.14	1.41	61.59	< 0.01	< 0.01	< 0.01	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	0.011	0.002	0.031	< 0.001	< 0.001	0.009	0.034	< 0.001	< 0.001	< 0.001	
	0.146	0.118	0.015	0.076	0.013	0.012	0.013	0.091	0.084	0.108	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.020	0.218	< 0.001	< 0.001	< 0.001	
)	342.50	345.70	186.60	137.80	0.59	260.40	230.90	95.41	97.22	115.10	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.005	< 0.001	< 0.001	< 0.001	
1	< 0.001	< 0.001	0.009	< 0.001	< 0.001	0.057	0.118	< 0.001	< 0.001	< 0.001	
1	0.002	0.002	0.007	< 0.001	< 0.001	0.014	0.064	0.001	0.001	0.003	
	0.03	0.01	0.08	0.02	0.01	< 0.01	5.25	< 0.01	0.11	0.03	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	172.80	168.50	207.30	53.80	0.58	212.20	239.70	48.76	48.41	65.26	
	0.041	0.063	1.589	0.002	0.024	9.818	10.39	< 0.001	0.117	0.009	
)8	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	
1	0.003	0.002	0.025	0.001	0.002	0.260	0.882	< 0.001	< 0.001	< 0.001	
	15.30	13.58	91.93	5.12	0.06	23.29	15.97	3.00	2.11	3.69	
1	0.010	< 0.001	0.020	0.002	< 0.001	0.004	0.006	< 0.001	< 0.001	< 0.001	
1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
)	194.90	185.70	555.60	17.65	0.50	116.40	122.20	8.63	5.29	8.22	
1	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	0.007	0.004	0.006	0.004	< 0.001	0.008	0.048	0.002	< 0.001	< 0.001	
)	0.012	0.011	0.012	0.010	0.015	0.071	3.710	0.007	0.007	0.008	
	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.2	182.6	< 0.5	< 0.5	< 0.5	
	16.7	11.7	81.4	7.1	< 0.5	346.3	20.0	1.2	< 0.5	< 0.5	
	5.5	2.2	0	1.4	0.0	0	2.2	1.3	0.6	0.9	
	22.7	12.4	83.2	7.1	0.8	17.8	17.4	3.1	1.4	5.7	

APPENDIX D

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
3314 Pole Line Road • Pocatello, Idaho 83201
Phone: (208) 237-3300 • Fax: (208) 237-3336
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www.iasenvirochem.com

EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date Submitted: 10/20/2008
Date Reported: 10/30/2008

Certificate of Analysis

Sample Description: MW05-1
Sampling Date: 10-16-2008
Sampling Time: 18:10
Date Received: 10-20-2008
Lab Tracking #: 110085993

Analysis	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	390	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	390	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	4	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	1.21	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	777	us/cm	120.1	10/23/08	BN
Sulfate mg/L	19	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	440	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.04	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.4	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.091	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	95.41	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	48.76	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	3.00	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	8.63	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.2	mg/L	Calc	10/30/08	CH

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www.iasenvirochem.com

EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - GA/GC

Sample Description: MW05-2
Sampling Date: 10-17-2008
Sampling Time: 10:15
Date Received: 10-20-2008
Lab Tracking #: 110085994

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	3	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	806	us/cm	120.1	10/23/08	BN
Sulfate mg/L	37	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	478	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.04	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.4	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.084	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	97.22	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.11	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	48.41	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.117	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	2.11	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	5.29	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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EnviroChem

INDUSTRIAL • WATER • WASTE • SOIL • GEOCHEMICAL • FIRE ASSAY • QA/QC

Sample Description: MW05-3
Sampling Date: 10-16-2008
Sampling Time: 19:25
Date Received: 10-20-2008
Lab Tracking #: 110085995

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	460	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	460	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	4	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	10/20/08	RP
Specific Conductance us/cm	950	us/cm	120.1	10/23/08	BN
Sulfate mg/L	66	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	564	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.10	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	3	mg/L	160.2	10/21/08	BN
pH units	7.5	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.108	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	115.10	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	65.26	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	3.69	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	8.22	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: MW05-4
Sampling Date: 10-17-2008
Sampling Time: 9:40
Date Received: 10-20-2008
Lab Tracking #: 110085996

Analyte	Result	Unit	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	7	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	2.21	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	771	us/cm	120.1	10/23/08	BN
Sulfate mg/L	25	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	434	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.07	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	15	mg/L	160.2	10/21/08	BN
pH units	7.8	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.08	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.070	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	94.11	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.15	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	48.13	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.011	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	2.85	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	6.82	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	2.2	mg/L	Calc	10/30/08	CH

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Sample Description: MW05-5
Sampling Date: 10-16-2008
Sampling Time: 17:10
Date Received: 10-20-2008
Lab Tracking #: 110085997

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	440	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	440	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	4	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	1.19	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.59	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	936	us/cm	120.1	10/23/08	BN
Sulfate mg/L	64	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	558	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.58	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.1	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.085	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	113.00	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	54.72	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	3.37	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	15.46	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.2	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - GA/GC

Sample Description: DUP
Sampling Date: 10-17-2008
Sampling Time: 9:40
Date Received: 10-20-2008
Lab Tracking #: 110085998

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	360	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	360	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	7	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	2.19	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.04	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	772	us/cm	120.1	10/23/08	BN
Sulfate mg/L	25	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	440	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.07	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	13	mg/L	160.2	10/21/08	BN
pH units	7.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.03	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.066	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	95.49	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.06	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	47.51	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.005	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	2.95	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	7.00	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	2.2	mg/L	Calc	10/30/08	CH

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Sample Description: A2
Sampling Date: 10-17-2008
Sampling Time: 15:45
Date Received: 10-20-2008
Lab Tracking #: 110085999

Analyte	Results	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	360	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	360	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	4	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	758	us/cm	120.1	10/23/08	BN
Sulfate mg/L	26	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	426	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.05	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.8	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.083	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	96.46	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	43.45	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	1.23	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	4.35	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Fluoride mg/L	0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A2A
Sampling Date: 10-17-2008
Sampling Time: 16:35
Date Received: 10-20-2008
Lab Tracking #: 110086000

Analyte	Result	Unit	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	400	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	400	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	0.12	mg/L	350.1	10/23/08	RP
Chloride mg/L	3	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.10	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	790	us/cm	120.1	10/23/08	BN
Sulfate mg/L	33	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	462	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.11	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	4	mg/L	160.2	10/21/08	BN
pH units	7.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.102	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	100.00	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.08	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	48.55	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.431	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	2.70	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	6.32	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: A4
Sampling Date: 10-17-2008
Sampling Time: 14:25
Date Received: 10-20-2008
Lab Tracking #: 110086001

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1080	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	1080	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	22	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	15.86	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.19	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	2240	us/cm	120.1	10/23/08	BN
Sulfate mg/L	511	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	1968	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.21	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	21	mg/L	160.2	10/21/08	BN
pH units	6.5	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.03	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.065	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	358.80	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.02	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	159.50	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.138	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	7.26	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.055	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	87.39	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.016	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	15.9	mg/L	Calc	10/30/08	CH

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Sample Description: A5
Sampling Date: 10-17-2008
Sampling Time: 12:45
Date Received: 10-20-2008
Lab Tracking #: 110086002

[illegible]	[illegible]	[illegible]	[illegible]	Analysis Date	[illegible]
Alkalinity, BICARB as CaCO3 mg/L	600	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	600	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	24	mg/L	300.0	10/17/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.07	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	1467	us/cm	120.1	10/23/08	BN
Sulfate mg/L	327	mg/L	300.0	10/17/08	RP
Total Dissolved Solids mg/L	1118	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.07	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.3	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.074	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	191.10	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	96.74	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	12.77	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	21.79	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/17/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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Sample Description: A6
Sampling Date: 10-17-2008
Sampling Time: 11:55
Date Received: 10-20-2008
Lab Tracking #: 110086003

Analyte	Result	Units	Method	Analysis Date	Tech
Alkalinity, BICARB as CaCO3 mg/L	1100	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	1100	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	6.41	mg/L	350.1	10/23/08	RP
Chloride mg/L	42	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	7.44	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	14.94	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	2550	us/cm	120.1	10/23/08	BN
Sulfate mg/L	897	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	2300	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	9.2	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	15.33	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	28	mg/L	160.2	10/21/08	BN
pH units	6.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.05	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.011	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.146	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	342.50	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.03	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	172.80	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.041	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	15.30	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.010	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	194.90	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.012	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	16.7	mg/L	Calc	10/30/08	CH

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Sample Description: A7
Sampling Date: 10-17-2008
Sampling Time: 14:55
Date Received: 10-20-2008
Lab Tracking #: 110086004

Test Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1300	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	1300	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	75.93	mg/L	350.1	10/23/08	RP
Chloride mg/L	22	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	3.95	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	81.98	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	3740	us/cm	120.1	10/23/08	BN
Sulfate mg/L	1552	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	3128	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	77.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	84.65	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	35	mg/L	160.2	10/21/08	BN
pH units	6.8	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.04	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.031	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.015	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	186.60	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.08	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	207.30	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	1.589	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.025	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	91.93	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.020	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	555.60	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.006	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.012	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	81.4	mg/L	Calc	10/30/08	CH

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Sample Description: A9A
Sampling Date: 10-17-2008
Sampling Time: 11:25
Date Received: 10-20-2008
Lab Tracking #: 110086005

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	1040	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	1040	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	2.84	mg/L	350.1	10/23/08	RP
Chloride mg/L	44	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	8.86	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	2.52	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	2570	us/cm	120.1	10/23/08	BN
Sulfate mg/L	906	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	2260	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	2.8	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	3.30	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	6.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.118	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	345.70	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	168.50	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.063	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	13.58	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	185.70	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.011	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	11.7	mg/L	Calc	10/30/08	CH

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Sample Description: A10
Sampling Date: 10-17-2008
Sampling Time: 9:00
Date Received: 10-20-2008
Lab Tracking #: 110086006

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	440	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	440	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	24	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	7.05	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	0.06	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	1059	us/cm	120.1	10/23/08	BN
Sulfate mg/L	93	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	704	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.11	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	2	mg/L	160.2	10/21/08	BN
pH units	7.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.03	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.076	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	137.80	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.02	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	53.80	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	5.12	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	17.65	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.004	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.010	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	7.1	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: NW-5
Sampling Date: 10-17-2008
Sampling Time: 10:40
Date Received: 10-20-2008
Lab Tracking #: 110086007

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	580	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	580	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	3.76	mg/L	350.1	10/23/08	RP
Chloride mg/L	17	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	2.88	mg/L	300.0	10/17/08	RP
Ortho Phos:P mg/L	7.31	mg/L	365.2	10/17/08	RP
Specific Conductance us/cm	1646	us/cm	120.1	10/23/08	BN
Sulfate mg/L	453	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	1256	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	5.3	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	7.76	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	6.8	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.063	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	193.80	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.247	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.05	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	0.006	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	87.60	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.142	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	11.24	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.010	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	96.10	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.081	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	8.2	mg/L	Calc	10/30/08	CH

G. Ryan Pattie/ch
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

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Company Name: AquaTech / Engineers Inc. (Agrium)
Address: 3314 Pole Line Road
City: Pocatello State: ID Zip: 83201
Phone: 208-251-1811 P.O. #

Special INSTRUCTIONS

Analyses Requested

SAMPLE INFORMATION

TRK # (Lab use only)	Sample Description	Date/Time Collected	Aluminum	Antimony	Arsenic	Barium	Beryllium	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Lead	Potassium	Magnesium	Manganese	Mercury	Nickel	Silver	Selenium	Thallium	Vanadium	Zinc	Ammonia Total	Alkalinity	Bicarbonate Alkalinity	Carbonate Alkalinity	Chloride	Fluoride	Phopsphorus:P	Ortho-Phosphate	Nitrate	Total Nitrogen	Total Kjeldahl Nitrogen	Sodium	Specific Conductance	Sulfate	Total Dissolved Solids	Total Suspended	pH Units	Comments
11008-5993	MW05-1	101608 1810	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5994	MW05-2	101708 1015	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5995	MW05-3	101608 1925	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5996	MW05-4	101708 0940	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5997	MW05-5	101608 1710	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5998	DUP	101708 0940	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5999	A2	1545	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6000	A2A	1635	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6001	A4	1425	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6002	A5	1245	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6003	A6	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6004	A7	1455	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6005	A9A	1125	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6006	A10	0900	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6007	NW-5	1040	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY

Signature: [signature]
Printed Name: G. Ryan Pattie
Date/Time: 101708 1835

RECEIVED BY

Signature: [signature]
Name: COURTNEY THERTA
Date/Time: 10/20/08 0900

Lab Use Only

Received Intact? YES NO
Labels and Chain A YES NO
Container Sealed? YES NO

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INDUSTRIAL • WATER • WASTE • SOIL • GEOCHEMICAL • FIRE ASSAY • QA/QC

Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date Submitted: 10/20/2008
Date Reported: 10/30/2008

Certificate of Analysis

Sample Description: A1
Sampling Date: 10-18-2008
Sampling Time: 13:35
Date Received: 10-20-2008
Lab Tracking #: 110086008

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	240	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	240	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	16	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	0.07	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	515	us/cm	120.1	10/23/08	BN
Sulfate mg/L	4	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	278	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.29	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	22	mg/L	160.2	10/21/08	BN
pH units	7.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.13	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.083	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	69.22	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.005	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.07	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	19.58	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	1.58	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	7.11	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: NW7
Sampling Date: 10-18-2008
Sampling Time: 9:45
Date Received: 10-20-2008
Lab Tracking #: 110086009

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	260	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	260	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	18	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	3.37	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	0.07	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	867	us/cm	120.1	10/23/08	BN
Sulfate mg/L	160	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	592	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.10	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.146	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	113.60	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	35.54	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	5.29	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.021	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	13.18	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	3.4	mg/L	Calc	10/30/08	CH

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Sample Description: NW8
Sampling Date: 10-18-2008
Sampling Time: 9:20
Date Received: 10-20-2008
Lab Tracking #: 110086010

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	220	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	220	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	9	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	2.87	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	0.05	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	534	us/cm	120.1	10/23/08	BN
Sulfate mg/L	23	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	320	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.06	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.163	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	69.89	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	19.33	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	5.01	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	9.63	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.006	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	2.9	mg/L	Calc	10/30/08	CH

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: NW9
Sampling Date: 10-18-2008
Sampling Time: 11:15
Date Received: 10-20-2008
Lab Tracking #: 110086011

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	240	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	240	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	3.43	mg/L	350.1	10/23/08	RP
Chloride mg/L	74	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	16.44	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	5.86	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	1656	us/cm	120.1	10/23/08	BN
Sulfate mg/L	677	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	1368	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	3.9	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	10.65	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	61	mg/L	160.2	10/21/08	BN
pH units	6.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.20	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.013	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	0.012	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	198.90	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.013	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	91.17	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	1.087	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.071	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	7.47	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	77.18	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.017	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.049	mg/L	200.8	10/23/08	RP
Fluoride mg/L	22.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	20.4	mg/L	Calc	10/30/08	CH

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Sample Description: NW10
Sampling Date: 10-18-2008
Sampling Time: 14:00
Date Received: 10-20-2008
Lab Tracking #: 110086012

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	0.26	mg/L	350.1	10/23/08	RP
Chloride mg/L	7	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	0.01	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	1066	us/cm	120.1	10/23/08	BN
Sulfate mg/L	210	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	740	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.16	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.7	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.131	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	132.90	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.229	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	68.40	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.786	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	3.79	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	15.38	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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Sample Description: MWA
Sampling Date: 10-18-2008
Sampling Time: 10:20
Date Received: 10-20-2008
Lab Tracking #: 110086013

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	60	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	60	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	113.70	mg/L	350.1	10/23/08	RP
Chloride mg/L	328	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	207.00	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	19.77	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	3080	us/cm	120.1	10/23/08	BN
Sulfate mg/L	1032	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	2818	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	139.3	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	19.50	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	5.9	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	1.41	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.012	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	0.020	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	260.40	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.057	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.014	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	212.20	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	9.818	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.260	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	23.29	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	116.40	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.008	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.071	mg/L	200.8	10/23/08	RP
Fluoride mg/L	8.2	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	346.3	mg/L	Calc	10/30/08	CH

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Sample Description: MWB
Sampling Date: 10-18-2008
Sampling Time: 10:55
Date Received: 10-20-2008
Lab Tracking #: 110086014

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	11.71	mg/L	350.1	10/23/08	RP
Chloride mg/L	71	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	5.39	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	168.30	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	2120	us/cm	120.1	10/23/08	BN
Sulfate mg/L	1727	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	2812	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	14.6	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	185.18	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	48	mg/L	160.2	10/21/08	BN
pH units	4.4	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	61.59	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.034	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.013	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	0.218	mg/L	200.8	10/23/08	R-
Calcium mg/L 200.8	230.90	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.005	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	0.118	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.064	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	5.25	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	239.70	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	10.39	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.882	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	15.97	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.006	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	122.20	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.048	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	3.710	mg/L	200.8	10/23/08	RP
Fluoride mg/L	182.6	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	20.0	mg/L	Calc	10/30/08	CH

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Sample Description: EQ BLANK
Sampling Date: 10-18-2008
Sampling Time: 11:00
Date Received: 10-20-2008
Lab Tracking #: 110086015

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	< 1	mg/L	300.0	10/18/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/18/08	RP
Ortho Phos:P mg/L	< 0.01	mg/L	365.2	10/18/08	RP
Specific Conductance us/cm	1.6	us/cm	120.1	10/23/08	BN
Sulfate mg/L	< 1	mg/L	300.0	10/18/08	RP
Total Dissolved Solids mg/L	< 2	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	< 0.01	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	5.0	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.14	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.013	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	0.59	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	0.58	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.024	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	0.06	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	0.50	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.015	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/18/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

G. Ryan Pattie/ch
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

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Company Name: AquaTech / Engineers Inc. (Agrium)
Address: 3314 Pole Line Road
City: Pocatello State: ID Zip: 83201
Phone: 208-251-1811 P.O. #

Special INSTRUCTIONS

Analyses Requested

TRK # (Lab use only)	Sample Description	Date/Time Collected	Aluminum	Antimony	Arsenic	Barium	Beryllium	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Lead	Potassium	Magnesium	Manganese	Mercury	Nickel	Silver	Selenium	Thallium	Vanadium	Zinc	Ammonia Total	Alkalinity	Bicarbonate Alkalinity	Carbonate Alkalinity	Chloride	Fluoride	Phopsphorus:P	Ortho-Phosphate	Nitrate	Total Nitrogen	Total Kjeldahl Nitrogen	Sodium	Specific Conductance	Sulfate	Total Dissolved Solids	Total Suspended	pH Units	Comments
6008	A1	101809 1335	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6009	NW7	0945	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6010	NW8	0920	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6011	NW9	1115	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6012	NW10	1400	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6013	MWA	1020	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6014	MWB	1055	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6015	EQ BLANK	1100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY

Signature: [signature]
Printed Name: G. Ryan Pattie
Date/Time: 101808 1610

RECEIVED BY

Signature: [signature]
Name: LOURENCO HUERTA
Date/Time: 10/20/08 0900

Lab Use Only

Received Intact? YES NO
Labels and Chain YES NO
Container Sealed? YES NO

NUW 005827

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Engineers, Inc.
Wayne Ericson
301 W. College Avenue, Suite 1
Silver City, NM 88061

Date Submitted: 10/20/2008
Date Reported: 10/30/2008

Certificate of Analysis

Sample Description: ArrMaz
Sampling Date: 10-20-2008
Sampling Time: 12:50
Date Received: 10-20-2008
Lab Tracking #: 110086016

Analyte	Result	Unit	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	740	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	740	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	3	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	< 1.00	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	1272	us/cm	120.1	10/23/08	BN
Sulfate mg/L	31	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	818	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.10	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.1	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.102	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	222.50	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	68.48	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	5.32	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	6.85	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.177	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	< 0.5	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: Torgesen
Sampling Date: 10-20-2008
Sampling Time: 15:40
Date Received: 10-20-2008
Lab Tracking #: 110086017

Analyte	Result	Unit	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	380	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	69	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	52.11	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	0.08	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	1313	us/cm	120.1	10/23/08	BN
Sulfate mg/L	72	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	842	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.11	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.092	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	172.20	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	74.84	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	4.45	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	19.11	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.033	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	52.1	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: Lowry
Sampling Date: 10-20-2008
Sampling Time: 16:00
Date Received: 10-20-2008
Lab Tracking #: 110086018

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	160	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	160	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	52	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	13.94	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	0.07	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	699	us/cm	120.1	10/23/08	BN
Sulfate mg/L	51	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	450	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.09	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.4	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.045	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	77.78	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	20.30	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	4.49	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	21.21	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.147	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	13.9	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: JRS10
Sampling Date: 10-20-2008
Sampling Time: 14:10
Date Received: 10-20-2008
Lab Tracking #: 110086019

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	520	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	520	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	9.26	mg/L	350.1	10/23/08	RP
Chloride mg/L	40	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	15.53	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	12.19	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	1871	us/cm	120.1	10/23/08	BN
Sulfate mg/L	742	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	1502	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	7.7	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	11.53	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	6.6	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.007	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.144	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	225.70	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	105.10	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.110	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.004	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	12.38	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.009	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	126.40	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.005	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.028	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	23.2	mg/L	Calc	10/30/08	CH

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INDUSTRIAL - WATER - WASTE - SOIL - BIOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: JRS11
Sampling Date: 10-20-2008
Sampling Time: 13:30
Date Received: 10-20-2008
Lab Tracking #: 110086020

Analyte	Result	Units	Method	Test Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	250	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	250	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	< 0.05	mg/L	350.1	10/23/08	RP
Chloride mg/L	16	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	1.14	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	0.03	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	643	us/cm	120.1	10/23/08	BN
Sulfate mg/L	46	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	370	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	< 0.5	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	0.15	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	7.5	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.045	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	89.81	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.010	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	16.34	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.001	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	1.31	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.032	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	14.12	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.287	mg/L	200.8	10/23/08	RP
Fluoride mg/L	< 0.5	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	1.1	mg/L	Calc	10/30/08	CH

INTERMOUNTAIN ANALYTICAL SERVICES, INC.

IAS — ENVIRO CHEM
3314 Pole Line Road • Pocatello, Idaho 83201
Phone: (208) 237-3300 • Fax: (208) 237-3336
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www.iasenvirochem.com

EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Description: JRS8
Sampling Date: 10-20-2008
Sampling Time: 15:05
Date Received: 10-20-2008
Lab Tracking #: 110086021

Analyte	Result	Units	Method	Analysis Date	Analyst
Alkalinity, BICARB as CaCO3 mg/L	300	mg/L	310.1	10/23/08	TP
Alkalinity, CARB as CaCO3 mg/L	< 5	mg/L	310.1	10/23/08	TP
Alkalinity, TOTAL as CaCO3 mg/L	300	mg/L	310.1	10/23/08	TP
Ammonia:N mg/L	1.59	mg/L	350.1	10/23/08	RP
Chloride mg/L	49	mg/L	300.0	10/21/08	RP
Nitrate:N mg/L	14.84	mg/L	300.0	10/21/08	RP
Ortho Phos:P mg/L	1.05	mg/L	365.2	10/21/08	RP
Specific Conductance us/cm	1532	us/cm	120.1	10/23/08	BN
Sulfate mg/L	577	mg/L	300.0	10/21/08	RP
Total Dissolved Solids mg/L	1218	mg/L	160.1	10/21/08	BN
Total Kjeldahl Nitrogen:N mg/L	2.50	mg/L	351.2	10/29/08	RP
Total Phos:P mg/L	1.21	mg/L	365.2	10/22/08	RP
Total Suspended Solids mg/L	< 2	mg/L	160.2	10/21/08	BN
pH units	6.5	pH units	150.1	10/23/08	TP
Aluminum mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Antimony mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Arsenic mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Barium mg/L 200.8	0.051	mg/L	200.8	10/23/08	RP
Beryllium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cadmium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Calcium mg/L 200.8	211.60	mg/L	200.8	10/23/08	RP
Chromium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Cobalt mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Copper mg/L 200.8	0.002	mg/L	200.8	10/23/08	RP
Iron mg/L 200.8	< 0.01	mg/L	200.8	10/23/08	RP
Lead mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Magnesium mg/L 200.8	59.62	mg/L	200.8	10/23/08	RP
Manganese mg/L 200.8	0.353	mg/L	200.8	10/23/08	RP
Mercury mg/L 200.8	< 0.0008	mg/L	200.8	10/23/08	RP
Nickel mg/L 200.8	0.011	mg/L	200.8	10/23/08	RP
Potassium mg/L 200.8	8.21	mg/L	200.8	10/23/08	RP
Selenium mg/L 200.8	0.010	mg/L	200.8	10/23/08	RP
Silver mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Sodium mg/L 200.8	73.66	mg/L	200.8	10/23/08	RP
Thallium mg/L 200.8	< 0.001	mg/L	200.8	10/23/08	RP
Vanadium mg/L 200.8	0.003	mg/L	200.8	10/23/08	RP
Zinc mg/L 200.8	0.013	mg/L	200.8	10/23/08	RP
Fluoride mg/L	0.6	mg/L	300.0	10/21/08	RP
Total Nitrogen (TKN+NO2:N+NO3:N) mg/L	17.3	mg/L	Calc	10/30/08	CH

G. Ryan Pattie/ch
Lab Director

ALL STANDARDS ARE N.I.S.T. TRACEABLE

IAS-EnviroChem, warrants the test results, from accepted analytical work, to be of precision normal for sample type and methodology employed for each sample submitted. IAS-EnviroChem disclaims any other warranties, express or implied, including warranty of fitness for a particular purpose and warranty which the client used test results. Any analytical work performed must be governed by the terms and conditions set forth herein.

IAS EnviroChem 3314 Pole Line Road Pocatello, Idaho 83201 (208) 237-3300 FAX (208) 237-3336 e-MAIL lasec3308@lasenvirochem.com

Company Name: AquaTech / Engineers Inc. (Agrium)
Address: 3314 Pole Line Road
City: Pocatello State: ID Zip: 83201
Phone: 208-251-1811 P.O.#

Special INSTRUCTIONS

SAMPLE INFORMATION / Analyses Requested

TRK # (Lab use only)	Sample Desciption	Date/Time Collected	Aluminum	Antimony	Arsenic	Barium	Beryllium	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Lead	Potassium	Magnesium	Manganese	Mercury	Nickel	Silver	Selenium	Thallium	Vanadium	Zinc	Ammonia Total	Alkalinity	Bicarbonate Alkalinity	Carbonate Alkalinity	Chloride	Fluoride	Phopsphorus:P	Ortho-Phosphate	Nitrate	Total Nitrogen	Total Kjeldahl Nitrogen	Sodium	Specific Conductance	Sulfate	Total Dissolved Solids	Total Suspended	pH Units	Comments
6016	ArrMaz	102008 1250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6017	Torgesen	1540	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6018	Lowry	1600	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6019	JRS 10	1410	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6020	JRS 11	1330	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6021	JRS 8	1505	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY

Signature: [signature]
Printed Name: G. Ryan Pattie
Date/Time: 1800 102008

RECEIVED BY

Signature: [signature]
Name: Courtney Hopper
Date/Time: 10/20/08 1800

Lab Use Only

Received Intact? YES NO
Labels and Chain Agree? YES NO
Container Sealed? YES NO

Analytical Data Package Prepared For

Engineers, Inc

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 51 *Pages*

Report No.: 40176

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38694		11008-5993	J8J280172-1	K1QNK1AA	9K1QNK10	8302598
		11008-5993	J8J280172-1	K1QNK1AC	9K1QNK10	8302601
		11008-5994	J8J280172-2	K1QNQ1AA	9K1QNQ10	8302598
		11008-5994	J8J280172-2	K1QNQ1AC	9K1QNQ10	8302601
		11008-5995	J8J280172-3	K1QNW1AA	9K1QNW10	8302598
		11008-5995	J8J280172-3	K1QNW1AC	9K1QNW10	8302601
		11008-5996	J8J280172-4	K1QN11AA	9K1QN110	8302598
		11008-5996	J8J280172-4	K1QN11AC	9K1QN110	8302601
		11008-5997	J8J280172-5	K1QN21AA	9K1QN210	8302598
		11008-5997	J8J280172-5	K1QN21AC	9K1QN210	8302601
		11008-5998	J8J280172-6	K1QN31AA	9K1QN310	8302598
		11008-5998	J8J280172-6	K1QN31AC	9K1QN310	8302601
		11008-5999	J8J280172-7	K1QN51AA	9K1QN510	8302598
		11008-5999	J8J280172-7	K1QN51AC	9K1QN510	8302601
		11008-6000	J8J280172-8	K1QN81AA	9K1QN810	8302598
		11008-6000	J8J280172-8	K1QN81AC	9K1QN810	8302601
		11008-6001	J8J280172-9	K1QPD1AA	9K1QPD10	8302598
		11008-6001	J8J280172-9	K1QPD1AC	9K1QPD10	8302601
		11008-6002	J8J280172-10	K1QPF1AA	9K1QPF10	8302598
		11008-6002	J8J280172-10	K1QPF1AC	9K1QPF10	8302601
		11008-6003	J8J280172-11	K1QPK1AA	9K1QPK10	8302598
		11008-6003	J8J280172-11	K1QPK1AC	9K1QPK10	8302601
		11008-6004	J8J280172-12	K1QPM1AA	9K1QPM10	8302598
		11008-6004	J8J280172-12	K1QPM1AC	9K1QPM10	8302601
		11008-6005	J8J280172-13	K1QPN1AA	9K1QPN10	8302598
		11008-6005	J8J280172-13	K1QPN1AC	9K1QPN10	8302601

Report No.: 40176

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38694		11008-6006	J8J280172-14	K1QPT1AA	9K1QPT10	8302598
		11008-6006	J8J280172-14	K1QPT1AC	9K1QPT10	8302601
		11008-6007	J8J280172-15	K1QP21AA	9K1QP210	8302598
		11008-6007	J8J280172-15	K1QP21AC	9K1QP210	8302601
		11008-6008	J8J280172-16	K1QP31AA	9K1QP310	8302600
		11008-6008	J8J280172-16	K1QP31AC	9K1QP310	8302603
		11008-6009	J8J280172-17	K1QP61AA	9K1QP610	8302600
		11008-6009	J8J280172-17	K1QP61AC	9K1QP610	8302603
		11008-6010	J8J280172-18	K1QP91AA	9K1QP910	8302600
		11008-6010	J8J280172-18	K1QP91AC	9K1QP910	8302603
		11008-6011	J8J280172-19	K1QQD1AA	9K1QQD10	8302600
		11008-6011	J8J280172-19	K1QQD1AC	9K1QQD10	8302603
		11008-6012	J8J280172-20	K1QQK1AA	9K1QQK10	8302600
		11008-6012	J8J280172-20	K1QQK1AC	9K1QQK10	8302603
		11008-6013	J8J280172-21	K1QQQ1AA	9K1QQQ10	8302600
		11008-6013	J8J280172-21	K1QQQ1AC	9K1QQQ10	8302603
		11008-6014	J8J280172-22	K1QQV1AA	9K1QQV10	8302600
		11008-6014	J8J280172-22	K1QQV1AC	9K1QQV10	8302603
		11008-6015	J8J280172-23	K1QQ01AA	9K1QQ010	8302600
		11008-6015	J8J280172-23	K1QQ01AC	9K1QQ010	8302603
		11008-6016	J8J280172-24	K1QQ11AA	9K1QQ110	8302600
		11008-6016	J8J280172-24	K1QQ11AC	9K1QQ110	8302603
		11008-6017	J8J280172-25	K1QQ21AA	9K1QQ210	8302600
		11008-6017	J8J280172-25	K1QQ21AC	9K1QQ210	8302603
		11008-6018	J8J280172-26	K1QQ51AA	9K1QQ510	8302600
		11008-6018	J8J280172-26	K1QQ51AC	9K1QQ510	8302603
		11008-6019	J8J280172-27	K1QQ61AA	9K1QQ610	8302600
		11008-6019	J8J280172-27	K1QQ61AC	9K1QQ610	8302603
		11008-6020	J8J280172-28	K1QQ81AA	9K1QQ810	8302600
		11008-6020	J8J280172-28	K1QQ81AC	9K1QQ810	8302603
		11008-6021	J8J280172-29	K1QRA1AA	9K1QRA10	8302600
		11008-6021	J8J280172-29	K1QRA1AC	9K1QRA10	8302603

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

November 13, 2008

Engineers, Inc.
301 W. College Avenue
Suite # 1
Silver City, NM 88061

Attention: Wayne Ericson

Date Received in Lab	:	October 24, 2008
Sample Type	:	Twenty-Nine (29) Waters
SDG Number	:	38694
Project Name	:	Engineers Inc.

CASE NARRATIVE

I. Introduction

On October 24, 2008, Twenty-nine water samples were received at the TestAmerica's Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TestAmerica identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J8J280172.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Gross Alpha by method RL-GPC-001 (RICHRC5014)* (EPA 900.0)
Gross Beta by method RL-GPC-001 (RICHRC5014)* (EPA 900.0)

*SOP ID's changed effective 7/01/08. Attached is a cross reference table until SOP ID's are changed in all systems.

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Gross Alpha by Analysis:
The samples were analyzed in two batches: 8302598 and 8302600.

Batch 8302598 the achieved MDA for samples 11008-6001, 11008-6003, 11008-6004, 11008-6005 and 11008-6007 exceeds the CRDL, due to reduced aliquots caused by high residue weights. Samples 11008-6001 and 11008-6003 the detected activity exceeds the achieved MDA. These samples were counted for 200 minutes. The LCS was recounted due to a low yield; the recount of the LCS is within acceptance limits. Except as noted, the LCS, batch blank, samples and sample duplicate results are within acceptance limits.

Batch 8302600 the achieved MDA for samples 11008-6013, 11008-6014, 11008-6019 and 11008-6021 exceeds the CRDL, due to reduced aliquots caused by high residue weights. These samples were counted for 200 minutes. The LCS was recounted due to a low yield. The recount data is acceptable. There was insufficient sample volume for a duplicate analysis. Except as noted, the LCS, batch blank and sample results are within acceptance limits.

Gross Beta Analysis:
The samples were analyzed in two batches: 8302601 and 8302603.

Batch 8302601 the achieved MDA for samples 11008-6001, 11008-6002, 11008-6003, 11008-6004, 11008-6005 and 11008-6007 exceeds the CRDL, due to reduced aliquots caused by high residue weights. However, the detected activity exceeds the achieved MDA, therefore; data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate results are within acceptance limits.

Batch 8302603 the achieved MDA for samples 11008-6009, 11008-6009 (duplicate), 11008-6011, 11008-6012, 11008-6013, 11008-6014, 11008-6016, 11008-6017, 11008-6019 and 11008-6021 exceeds the CRDL, due to reduced aliquots caused by high residue weights. However, the detected activity exceeds the achieved MDA except for sample 11008-6017 therefore; data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Engineers, Inc.
November 13, 2008

Reviewed and approved:

Rhonda Wagar
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Asbestos	RL-ASB-001	N/A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N/A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microsopy based on NIOSH 9002
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal/ Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	00-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Am	RL-ALP-010	RICH-RC-5080	Am03/Pu11HASL 300 NAS-NS-3006	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD
Cr^{6+}	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM [Cr(VI)] IN WATER, SOIL, AND SIMILAR MATRICES
Cr^{6+}	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
H3	RL-LSC-005	RICH-RC-5007	Mod 906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
H3	RL-LSC-007	RICH-RC-5037	H-3 in Water/Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I129	RL-GAM-002	RICH-RC-5025	R4-73-0141/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-0141/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1983)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Bechtel
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW486 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Ni	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE0089T	SEPARATION OF Ni-63 BY EXTRACTION CHROMATOGRAPHY
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Po	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSES
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PREFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
Prep - Count	RL-ALP-015	RICH-RC-5039	C-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
Prep - Count	RL-ALP-014	RICH-RC-5035	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Env	RL-KPA-001	RICH-RC-5015	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Prep - Resin	RL-ALP-017	RICH-RC-5018	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Prep - Urine	RL-PRP-010	RICH-RC-5036	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5036	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES
Pu	RL-ALP-010	RICH-RC-5030	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-001	RICH-RC-5037	AnalyticaChemActa1992 RP800 / DOE00089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Rn	RL-LSC-019	RICH-RC-5032	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundeell, Bright, Hoffman 1953	DETERMINATION OF SULFUR-35 IN URINE
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIROMENTAL MATRICES
Sr - Y	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Tc	RL-LSC-014	RICH-RC-5045	EXT Chromatography Mod RP550 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
Th	RL-ALP-008	RICH-RB-5016	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-KPA-002	RICH-RC-5011	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
U	RL-KPA-003	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

Sample Results Summary

Date: 13-Nov-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40176

SDG No: 38694

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8302598 RICHRC5014									
	11008-5993								
	K1QNK1AA	ALPHA	1.31E+00 +- 9.64E-01	J	pCi/L	100%	1.28E+00	3.00E+00	
	11008-5993 DUP								
	K1QNK1AD	ALPHA	8.30E-01 +- 9.10E-01	U	pCi/L	100%	1.67E+00	3.00E+00	0.7
	11008-5994								
	K1QNQ1AA	ALPHA	5.79E-01 +- 7.66E-01	U	pCi/L	100%	1.48E+00	3.00E+00	
	11008-5995								
	K1QNW1AA	ALPHA	9.17E-01 +- 1.04E+00	U	pCi/L	100%	1.91E+00	3.00E+00	
	11008-5996								
	K1QN11AA	ALPHA	8.20E-01 +- 8.22E-01	U	pCi/L	100%	1.41E+00	3.00E+00	
	11008-5997								
	K1QN21AA	ALPHA	1.08E+00 +- 1.03E+00	U	pCi/L	100%	1.67E+00	3.00E+00	
	11008-5998								
	K1QN31AA	ALPHA	3.67E-01 +- 5.08E-01	U	pCi/L	100%	9.01E-01	3.00E+00	
	11008-5999								
	K1QN51AA	ALPHA	1.16E+00 +- 8.50E-01	J	pCi/L	100%	1.08E+00	3.00E+00	
	11008-6000								
	K1QN81AA	ALPHA	8.50E-01 +- 8.67E-01	U	pCi/L	100%	1.44E+00	3.00E+00	
	11008-6001								
	K1QPD1AA	ALPHA	4.97E+00 +- 3.15E+00		pCi/L	100%	4.45E+00	3.00E+00	
	11008-6002								
	K1QPF1AA	ALPHA	6.06E+00 +- 2.58E+00		pCi/L	100%	2.32E+00	3.00E+00	
	11008-6003								
	K1QPK1AA	ALPHA	5.54E+00 +- 3.60E+00		pCi/L	100%	4.70E+00	3.00E+00	
	11008-6004								
	K1QPM1AA	ALPHA	0.00E+00 +- 2.55E+00	U	pCi/L	100%	6.47E+00	3.00E+00	
	11008-6005								
	K1QPN1AA	ALPHA	2.24E+00 +- 2.94E+00	U	pCi/L	100%	5.49E+00	3.00E+00	
	11008-6006								
	K1QPT1AA	ALPHA	1.44E+00 +- 1.51E+00	U	pCi/L	100%	2.74E+00	3.00E+00	
	11008-6007								
	K1QP21AA	ALPHA	8.49E-01 +- 1.64E+00	U	pCi/L	100%	3.30E+00	3.00E+00	
8302600 RICHRC5014									
	11008-6008								
	K1QP31AA	ALPHA	2.49E+00 +- 1.51E+00	J	pCi/L	100%	1.46E+00	3.00E+00	
	11008-6009								
	K1QP61AA	ALPHA	2.77E+00 +- 1.73E+00	J	pCi/L	100%	2.05E+00	3.00E+00	
	11008-6010								
	K1QP91AA	ALPHA	2.40E+00 +- 1.57E+00	J	pCi/L	100%	1.99E+00	3.00E+00	

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RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

Date: 13-Nov-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40176

SDG No: 38694

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8302600 RICHRC5014									
	11008-6011								
	K1QQD1AA	ALPHA	2.20E+00 +- 1.74E+00	U	pCi/L	100%	2.27E+00	3.00E+00	
	11008-6012								
	K1QQK1AA	ALPHA	6.27E-01 +- 8.27E-01	U	pCi/L	100%	1.51E+00	3.00E+00	
	11008-6013								
	K1QQQ1AA	ALPHA	-2.59E-01 +- 2.32E+00	U	pCi/L	100%	5.91E+00	3.00E+00	
	11008-6014								
	K1QQV1AA	ALPHA	2.22E+00 +- 4.99E+00	U	pCi/L	100%	1.02E+01	3.00E+00	
	11008-6015								
	K1QQ01AA	ALPHA	1.11E-02 +- 2.32E-01	U	pCi/L	100%	7.90E-01	3.00E+00	
	11008-6016								
	K1QQ11AA	ALPHA	8.66E-01 +- 1.11E+00	U	pCi/L	100%	2.01E+00	3.00E+00	
	11008-6017								
	K1QQ21AA	ALPHA	1.63E+00 +- 1.25E+00	U	pCi/L	100%	1.94E+00	3.00E+00	
	11008-6018								
	K1QQ51AA	ALPHA	1.28E+00 +- 1.19E+00	U	pCi/L	100%	1.87E+00	3.00E+00	
	11008-6019								
	K1QQ61AA	ALPHA	3.57E-01 +- 1.97E+00	U	pCi/L	100%	4.37E+00	3.00E+00	
	11008-6020								
	K1QQ81AA	ALPHA	3.56E+00 +- 1.88E+00		pCi/L	100%	2.28E+00	3.00E+00	
	11008-6021								
	K1QRA1AA	ALPHA	1.08E+00 +- 1.75E+00	U	pCi/L	100%	3.42E+00	3.00E+00	
8302601 RICHRC5014									
	11008-5993								
	K1QNK1AC	BETA	3.10E+00 +- 1.69E+00	U	pCi/L	100%	3.16E+00	4.00E+00	
	11008-5994								
	K1QNQ1AC	BETA	1.14E+00 +- 1.42E+00	U	pCi/L	100%	2.94E+00	4.00E+00	
	11008-5994 DUP								
	K1QNQ1AD	BETA	2.78E+00 +- 1.70E+00	U	pCi/L	100%	3.22E+00	4.00E+00	1.5
	11008-5995								
	K1QNW1AC	BETA	5.71E+00 +- 2.08E+00		pCi/L	100%	3.42E+00	4.00E+00	
	11008-5996								
	K1QN11AC	BETA	3.29E+00 +- 1.69E+00	J	pCi/L	100%	3.08E+00	4.00E+00	
	11008-5997								
	K1QN21AC	BETA	3.06E+00 +- 1.66E+00	J	pCi/L	100%	3.02E+00	4.00E+00	
	11008-5998								
	K1QN31AC	BETA	2.86E+00 +- 1.62E+00	U	pCi/L	100%	3.01E+00	4.00E+00	
	11008-5999								
	K1QN51AC	BETA	2.54E+00 +- 1.65E+00	U	pCi/L	100%	3.18E+00	4.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.2 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

J Qual - No U|< qualifier has been assigned and the result is below the Reporting Limit, RL (CRDL) or Report Value is Estimated.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

Date: 13-Nov-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40176

SDG No: 38694

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8302601 RICHRC5014									
	11008-6000								
	K1QN81AC	BETA	2.21E+00 +- 1.52E+00	U	pCi/L	100%	2.95E+00	4.00E+00	
	11008-6001								
	K1QPD1AC	BETA	7.06E+00 +- 3.52E+00		pCi/L	100%	6.11E+00	4.00E+00	
	11008-6002								
	K1QPF1AC	BETA	1.25E+01 +- 3.19E+00		pCi/L	100%	4.13E+00	4.00E+00	
	11008-6003								
	K1QPK1AC	BETA	2.27E+01 +- 6.39E+00		pCi/L	100%	9.43E+00	4.00E+00	
	11008-6004								
	K1QPM1AC	BETA	8.32E+01 +- 1.48E+01		pCi/L	100%	1.40E+01	4.00E+00	
	11008-6005								
	K1QPN1AC	BETA	1.24E+01 +- 5.40E+00		pCi/L	100%	8.83E+00	4.00E+00	
	11008-6006								
	K1QPT1AC	BETA	7.08E+00 +- 2.37E+00		pCi/L	100%	3.63E+00	4.00E+00	
	11008-6007								
	K1QP21AC	BETA	1.10E+01 +- 3.21E+00		pCi/L	100%	4.74E+00	4.00E+00	
8302603 RICHRC5014									
	11008-6008								
	K1QP31AC	BETA	1.77E+00 +- 1.47E+00	U	pCi/L	100%	2.92E+00	4.00E+00	
	11008-6009								
	K1QP61AC	BETA	1.17E+01 +- 3.13E+00		pCi/L	100%	4.35E+00	4.00E+00	
	11008-6009 DUP								
	K1QP61AD	BETA	5.91E+00 +- 2.41E+00		pCi/L	100%	4.12E+00	4.00E+00	2.9
	11008-6010								
	K1QP91AC	BETA	5.86E+00 +- 1.87E+00		pCi/L	100%	2.83E+00	4.00E+00	
	11008-6011								
	K1QQD1AC	BETA	9.77E+00 +- 3.67E+00		pCi/L	100%	5.88E+00	4.00E+00	
	11008-6012								
	K1QQK1AC	BETA	5.70E+00 +- 2.62E+00		pCi/L	100%	4.60E+00	4.00E+00	
	11008-6013								
	K1QQQ1AC	BETA	1.78E+01 +- 5.68E+00		pCi/L	100%	8.67E+00	4.00E+00	
	11008-6014								
	K1QQV1AC	BETA	1.74E+01 +- 6.92E+00		pCi/L	100%	1.12E+01	4.00E+00	
	11008-6015								
	K1QQ01AC	BETA	8.75E-01 +- 1.35E+00	U	pCi/L	100%	2.83E+00	4.00E+00	
	11008-6016								
	K1QQ11AC	BETA	5.07E+00 +- 2.83E+00		pCi/L	100%	5.04E+00	4.00E+00	
	11008-6017								
	K1QQ21AC	BETA	4.73E+00 +- 2.65E+00	U	pCi/L	100%	4.92E+00	4.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.2 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

Date: 13-Nov-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40176

SDG No: 38694

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8302603	RICHRC5014								
	11008-6018								
	K1QQ51AC	BETA	6.17E+00 +- 2.09E+00		pCi/L	100%	3.25E+00	4.00E+00	
	11008-6019								
	K1QQ61AC	BETA	1.24E+01 +- 3.90E+00		pCi/L	100%	5.97E+00	4.00E+00	
	11008-6020								
	K1QQ81AC	BETA	1.96E+00 +- 1.59E+00	U	pCi/L	100%	3.14E+00	4.00E+00	
	11008-6021								
	K1QRA1AC	BETA	7.50E+00 +- 3.18E+00		pCi/L	100%	5.14E+00	4.00E+00	

No. of Results: 61

TestAmerica

rptSTLRchSaSummary2 V5.2 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

Date: 13-Nov-08

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 40176

SDG No.: 38694

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
RICHRC5014								
8302598 BLANK QC,								
K1R311AA	ALPHA	5.12E-02 +- 1.86E-01	U	pCi/L	100%			4.06E-01
8302598 LCS,								
K1R312AC	ALPHA	3.20E+01 +- 6.84E+00		pCi/L	100%	78%	-0.2	3.42E-01
RICHRC5014								
8302600 BLANK QC,								
K1R371AA	ALPHA	-1.31E-01 +- 1.00E-01	U	pCi/L	100%			3.70E-01
8302600 LCS,								
K1R372AC	ALPHA	3.15E+01 +- 6.79E+00		pCi/L	100%	77%	-0.2	4.27E-01
RICHRC5014								
8302601 BLANK QC,								
K1R391AA	BETA	1.12E+00 +- 9.48E-01	U	pCi/L	100%			1.76E+00
8302601 LCS,								
K1R391AC	BETA	3.49E+01 +- 6.44E+00		pCi/L	100%	86%	-0.1	1.56E+00
RICHRC5014								
8302603 BLANK QC,								
K1R4C1AA	BETA	3.37E-01 +- 9.43E-01	U	pCi/L	100%			1.86E+00
8302603 LCS,								
K1R4C1AC	BETA	4.40E+01 +- 6.00E+00		pCi/L	100%	105%	0.1	1.76E+00

No. of Results: 8

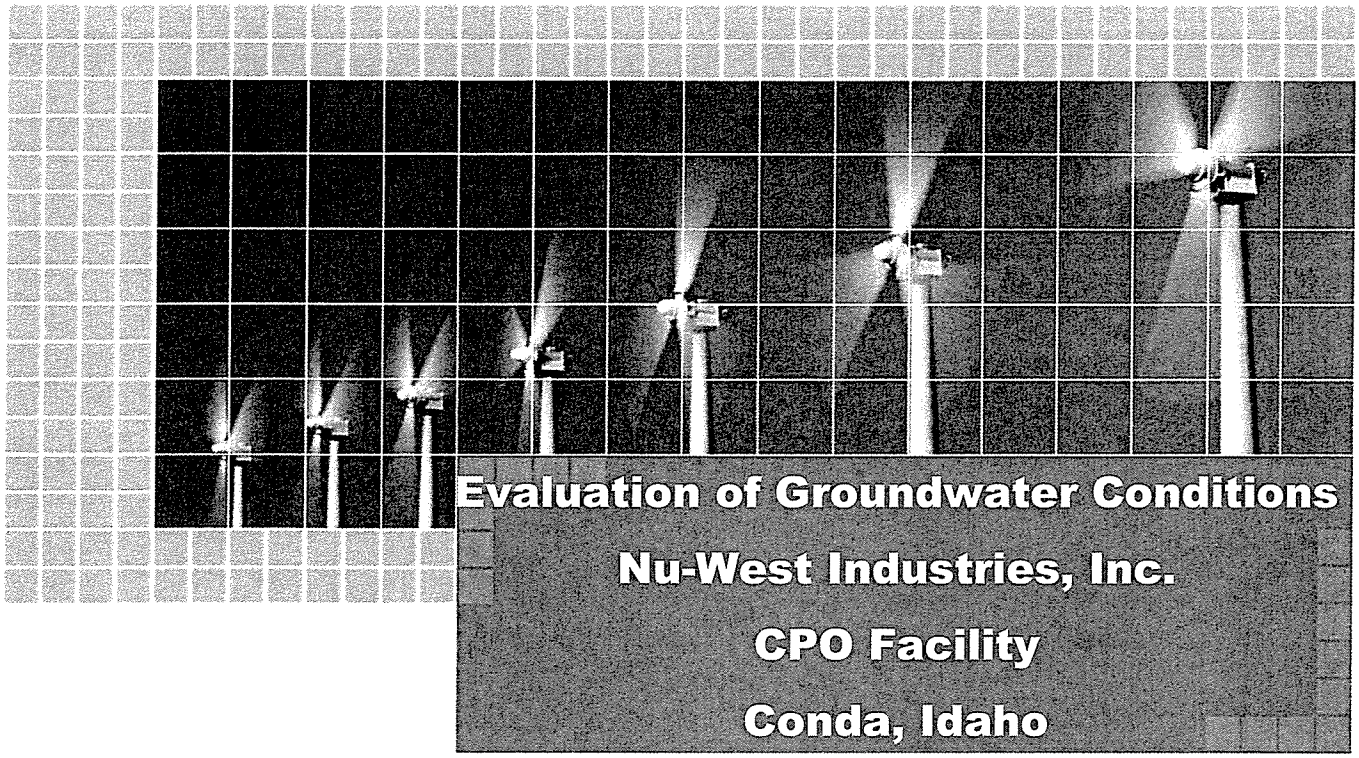
TestAmerica

rptSTLRchQcSummary V5.2 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

APPENDIX E



Evaluation of Groundwater Conditions

Nu-West Industries, Inc.

CPO Facility

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WSP

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1 Introduction

WSP Environment & Energy, on behalf Hunton & Williams LLP and Nu-West Industries, Inc. conducted an evaluation of groundwater conditions at the Conda Phosphate Operations (CPO) site and surrounding areas in Soda Springs, Idaho. The objectives of the evaluation were to:

- characterize the regional and local geology and subsurface hydrogeology, including developing a conceptual model of the local hydrogeology in the vicinity of the CPO site;
- evaluate groundwater conditions on the CPO site;
- evaluate the validity of assertions made by Bio-West, Inc. (on behalf of the Torgesen Ranch, Inc.) that nitrate and total nitrogen impact in groundwater from the Torgesen Ranch supply well is attributable to the CPO facility.

This report presents the findings of our evaluation as it relates to the source of nitrate and total nitrogen reported in the Torgesen Ranch well, which is approximately 2,500 feet west of the CPO facility. It is based on a review of groundwater assessment reports for monitoring and production wells on and around the CPO site prepared by Engineers, Inc. dated 2003 through 2008; United States Geological Survey (USGS) Geologic Map of the Soda Springs Quadrangle; Idaho Department of Water Resources (IDWR) well records and other boring logs for wells completed in the vicinity of the CPO property; Expanded Site Inspection Report prepared for the United States Environmental Protection Agency (EPA); Groundwater Flow Evaluation Report prepared by Bio-West; Ecological Risk Assessment prepared by Enercon for Nu-West; and various reports regarding the Monsanto Chemical Company Soda Springs Plant[1] Superfund site on file at Region X of the United States Environmental Protection Agency.

Section 2 presents a discussion of the regional and local geology and the local hydrogeology. Section 3 provides WSP's evaluation of groundwater quality data for wells on and around the CPO site, and Section 4 summarizes the key findings and presents WSP's conclusions.

[1] The Monsanto Chemical Company Soda Springs Plant site is located approximately 3 miles south of the CPO site

NUW 005856

2 Geology

The area encompassing the CPO site is situated at the eastern limit of a broad, north-south trending valley, approximately 4 miles wide, that has been filled by lava flows. The valley floor is topographically flat with elevations ranging from approximately 6,135 to 6,150 feet above the National Geodetic Vertical Datum (NGVD). The regional topography slopes gradually to the south. Across the region there are north-northwest trending linear escarpments, typically with 15 to 50 vertical feet of relief. The eastern portion of the CPO site is positioned at the base of the Aspen Range foothills.

The general geology of the region is comprised of alluvial deposits overlying basalt and sandstone bedrock. A generalized east to west geologic cross section of the region is shown in Figure 1. The alluvium consists of silt and clay associated with erosion or windblown deposits, typically less than 50 feet thick. Underlying the alluvium in the valley areas are the Blackfoot Lava flows, consisting of layers of basalt that are several hundred feet thick in the center of the valley. The basalt layers are thinner to the east at the transition zone with the Salt Lake Formation (which is found in the foothills of the Aspen Range), primarily consisting of sandstone and limestone. The Salt Lake Formation, hundreds of feet thick, underlies the basalt units within the valley. The USGS mapped calcareous hot and cold spring deposits (tufa and travertine) in the eastern half of Section 9 of Township 8 South, Range 42 East (USGS, 1969), over which the main part of the CPO facility is located.

The geology of the region has been influenced structurally by thrust faulting and folding associated with mountain-building events. Typically, northwest trending faults border the valleys present in this region. The fault to the east of the CPO site has been geomorphically altered by subsequent erosional processes and covered by sediment, whereas the fault to the west of the CPO site is marked by an escarpment (USGS, 1982).

2.1 LOCAL GEOLOGY

The land surface west of the CPO site is a thin veneer of unconsolidated alluvial overburden material consisting predominately of silt and silty clay. The alluvium is generally 5 to 25 feet thick, but in some areas it is up to 65 feet thick. An example of the thicker alluvium is the northeastern portion of the site in the vicinity of well A-1, northeast of Pond 4. Underlying the overburden is basalt deposited by the Blackfoot Lava flows. Based on a review of boring logs available for monitoring and supply wells around the CPO site and the Monsanto Superfund site documents, it is evident there have been numerous lava flow events which are separated by alluvium, cinder layers and weathered horizons. The CPO site is situated at the eastern limit of the basalt units, where the Salt Lake Formation sandstone and limestone units intersect the basalt.

The overall thickness of basalt beneath the majority of the site typically is greater than 250 feet. The basalt is described as fine-grained and vesicular, varying from competent to extremely weathered, and exhibits well-developed vertical columnar joints and horizontal joint sets. The joints within the basalt reportedly have 0.5 to 1-inch wide apertures and the horizontal joint sets are typically spaced approximately 1 foot apart.

The USGS has mapped two faults in the vicinity of the CPO site; one located along the eastern perimeter of the site, and the other to the west of the site. These northwest trending normal faults exhibit west-side down displacements and are characterized by highly fractured and weathered bedrock. The western fault is largely visible as a topographical displacement, whereas the eastern fault is covered with surficial deposits (USGS, 1969). The boring logs for the Torgesen Ranch well and well A-12 on the CPO site, which are located near the west fault zone, confirm that bedrock is highly fractured and weathered. These fault zones are likely preferential pathways for surface water infiltration and groundwater flow.

Aerial photographs confirm a fault trending northwest across the Torgesen Ranch property, displaying a vertical displacement of approximately 15 feet. Radiating from this escarpment are surficial lows where surface water likely accumulates seasonally and subsequently infiltrates into the subsurface, evaporates, or is used. Figure 2 shows two areas labeled Pond A and Pond B. These demark the southerly end of the surface depressions which cross the Torgesen Ranch property, in which surface water would pond. Water from the gypstack release in December 2006 temporarily accumulated and froze in Ponds A and B.

Based on a review of 25 available boring logs for monitoring and production wells, and published technical reports on the local geology, WSP prepared six geologic cross sections of the area encompassing the CPO site and the Torgesen Ranch property to the west. Figure 2 is a base map showing the locations of the cross sections which are presented in Figures 3 through 6. Overall, the site geology is consistent with the regional geology.

Figure 3 depicts geologic cross section A-A'. This section extends south to north along the western portion of the CPO site and adjacent Torgesen Ranch property approximately 13,750 feet and is interpolated based on logs for five groundwater monitoring and production wells (A-10, Torgesen Ranch well, MW05-5, MW05-4, and MW05-01). A key feature to note is the northwest trending fault escarpment present in the central portion of the area. The bedrock adjacent to this fault escarpment is highly fractured and is likely a preferential pathway for surface water infiltration. This has likely increased storativity and conductivity for groundwater flow allowing substantial groundwater yields. The Torgesen Ranch well appears to be located within the highly fractured zone associated with the faults on the downthrown side of the fault. This well is screened within weathered basalt from approximately 185 to 225 feet below grade (5,910 to 5,950 feet NGVD).

Figure 4 presents geologic cross sections B-B' and W-W'. Section B-B' represents an approximately 8,750 feet long south to north profile immediately west of the gypstacks and tailing ponds on the CPO site. It is based on an interpolation of logs for four wells (A-7, A-4, NW-5 and A-2). Of note is the presence of a calcareous deposit (containing calcium carbonate, calcium, or lime) in the vicinity of well A-4. This feature is the result of the deposition of solubilized minerals in groundwater that flowed upward through fractures under pressure; this is consistent with the tufa and travertine (Qt) identified on the USGS geology map. Most of the CPO ponds and operating facility lies over the tufa/travertine. Although its porosity may range from high to low, tufa and travertine can be less permeable than alluvium.

Cross Section W-W' extends west to east along the northern portion of the CPO site and is based on an interpolation of logs for four bedrock wells (MW05-1, MW05-2, and MW-10) and one alluvial well (A-1). The thickness of the alluvial deposits increases from west to east from approximately 8 feet at MW05-1 to greater than 65 feet at A-1 and is likely due to erosional processes at the base of the Aspen Range. Well A-1 is screened within the overburden material and has relatively unvarying groundwater elevation.

Figure 5 presents geologic cross sections X-X' and Y-Y', both of which extend west to east from Tailings Pond 2 and Gypstack 3, respectively. Each cross section represents the geology over a distance of approximately 6,000 feet. Section X-X' is based on an interpolation from logs for two monitoring wells (MW-05, and MW05-3) while section Y-Y' is based on an interpolation of logs for four monitoring wells (A-4, A-3, A-11 and A-12). The general geology in this area is the same as the north portion of the site. A thin layer of alluvium overlies basalt bedrock. Cross section Y-Y' intersects the fault feature located on the west portion of the area which is approximately mid way between Tailing Pond 3 and State Road 34.

Figure 6 presents geologic cross section Z-Z'. This section is oriented southwest to northeast across the south portion of the CPO site. It extends a distance of approximately 7,500 feet and is represented by wells A-10, MWA, NW-9, MWB, and NW-7. Of note is the presence of basalt bedrock at wells A-10, NW-9 and MWB while well NW-7 is outside the valley within the weathered limestone and sandstone associated with the Aspen Range. This is consistent with the regional geology which indicates the basalt layer thins to the east and transitions at the limits of the valley to the sandstone and limestone associated

with the Aspen Range. Thus, groundwater quality in well NW-7 is likely representative of background. Also of note is the overlap in screen intervals of pumping well NW-9 and monitoring well MWB. The upper screen interval in NW-9 is from approximately 6,120 to 6,060 feet NGVD and that for MWB is approximately from 6,100 to 6,040 feet NGVD.

2.2 LOCAL HYDROGEOLOGY

The predominant water bearing unit in the region is within the basalt. Confined and semi-confined groundwater is present in horizontal cinder layers and weathered interflow zones; and vertically fractured and fault shear zones in the basalt unit. Secondarily perched water is present within the overburden material. Only two monitoring wells (A-1 and A-2) are screened within the overburden material. Groundwater levels in these two wells indicate that perched groundwater acts independently of the bedrock aquifer.

The sandstone and limestone aquifers at the valley transition also are very productive groundwater resources. Between 1999 and 2008, the depth to water for monitoring wells constructed in the basalt bedrock aquifer ranged from approximately 13 to 190 feet below ground surface (bgs). The wide range of depth to groundwater is explained by several factors including:

- The groundwater gradient is steeper than the topographical slope
- The wells are screened at different intervals
- There may be differences in degree of fracturing, likely increasing with proximity to faults
- Influence of pumping wells.

Groundwater level data measurements obtained by Engineers Inc. in May 2007, October 2007 and June 2008, as part of the Ground Water Monitoring Plan (GWMP) approved by the Idaho Department of Environmental Quality (IDEQ) were utilized to prepare maps depicting groundwater elevation contours on the CPO site. These three periods comprise site-wide groundwater elevation measurements that included wells A-11 and A-12. Maps of the groundwater contours for each event are presented in Appendix A. These maps show that groundwater flow at the site is to the west-southwest. Overall, water level data collected by Engineers Inc. since 2001 consistently show a west-southwest hydraulic gradient. Recharge of groundwater to the basalt aquifer may originate from the limestone and sandstone aquifer (Aspen Range) to the east, as well as surface water infiltration into faulted and fractured rock. Annual precipitation averages approximately 16 inches (NCDC, 2002). Typically, the monitoring wells on the CPO site have higher groundwater elevations in the early summer than in the fall, likely caused by spring/summer rainfall and snowmelt.

The groundwater level in bedrock well A-12, located in the vicinity of the fault, is higher than bedrock monitoring well A-11 which is located approximately 300 feet to the east. Both wells are screened over similar intervals (6,050 to 6,000 feet NGVD). Given the overall west-southwest local groundwater gradient, the water level in well A-11 would be expected to be higher than well A-12. The higher water level in well A-12 indicates that the fault zone locally receives a greater amount of recharge than the surrounding formation and likely is a preferential pathway for surface water infiltration and groundwater flow. WSP's review of the regional and local geology indicates that well A-12 is in the same aquifer as the other local wells, not in a different aquifer as Bio-West asserted in their report.

CPO pumps groundwater from numerous wells, including but not limited to: NW-5, NW-7, NW-9 and NW-10. NW-7 and NW-9 are located south of the CPO plant, NW-10 is north of Tailings Pond 4, and NW-5 is southwest of Tailings Pond #2. NW-5 is screened from 50 to 260 feet and its sustained yield was reported at 2,300 gallons per minute (gpm) with reported drawdown of 2 feet after 181 hours. NW-9 is screened over four intervals; from 40 to 100, 120 to 140, 180 to 220 and 235 to 255 feet bgs. The sustained yield from this well was reported above 1,600 gpm and drawdown was 7 feet. NW-10 is

screened over four intervals in the basalt: from 65 to 85, 115 to 145, 265 to 295, and 315 to 335 feet bgs. The sustained yield from this well was reported at 1,500 gpm and drawdown was 30 feet. At these extraction rates in these wells, drawdown was less than 11 percent of the water column. Artesian flow has been reported in NW-10. Well NW-7 is screened in the sandstone and limestone aquifer from 104 feet to 465 feet. The static water level in well NW-7 was reported at 80 feet bgs following drilling. The sustained yield from NW-7 was reported above 800 gpm (no drawdown data was provided). One of CPO's water rights allow for withdraw volumes of up to 1,500 gpm from a combination of three points of diversion, whereas the Torgesen Ranch well is allowed only 18 gpm (IDWR records). The allowed pumping rate of the Torgesen Ranch well, located in similar geological conditions as NW-5 and NW-10, is not likely to cause significant drawdown and would have little influence on the natural groundwater flow patterns, particularly compared with that caused by the CPO facility wells.

A review of water level data from January 1999 through June 2008 (Table 1) indicates a similar fluctuation pattern among a majority of wells screened in the basalt aquifer (Figure 7). Exceptions to this, shown on Figure 8, include well A-10 where levels remained relatively stable and do not exhibit the same pattern as other basalt wells. A-10 is located approximately 2,500 feet from the nearest known pumping wells (JRS-10 and the Lowry well) and is the only CPO monitoring well located west of the fault. Other exceptions are likely influenced by nearby pumping wells. One important anomaly is that, although the patterns in wells A-5 and A-6 are similar, the water level in deeper well A-5 is typically 10 to 15 feet than A-6.

NUW 005860

3 Evaluation of Nitrogen and Nitrate Distribution In Groundwater

WSP evaluated groundwater quality data collected between April 2001 and June 2008 for 28 wells located on and around the CPO site, including the Torgesen Ranch well. In particular, the distribution of nitrogen and nitrate was evaluated in conjunction with the local hydrogeologic framework to ascertain whether the concentrations found in the Torgesen Ranch well could potentially be associated with CPO's manufacturing operations as asserted by Bio-West (2008). In addition, WSP reviewed groundwater quality data for other constituents including phosphorous and sulfate, as these may be associated with raw materials, products, and /or by-products of CPO's manufacturing operations and could be potential indicators of site-related impacts. The discussion primarily references the June 2008 sampling data; however, all available historical sampling data was reviewed and considered. WSP notes that the historical sampling data for individual wells is consistent, thus the focus on the 2008 data is representative of data available since 2001 and provides the most comprehensive data set.

3.1 GROUNDWATER EVALUATION

Wells on the west portion of the CPO site include, from north to south, MW-05-4, MW05-3, MW05-5, NW-5, Torgesen Ranch well, A-4, A-3, A-11, A-12, A-5, A-6, A-8, A-7, A-9A, JRS-10, A-10, and the Lowry well (Figure 2). Figures 9 and 10 show the concentrations of nitrate and total nitrogen detected in all wells for which data are available.

The data evaluated for the 28 wells and groundwater flow pathways do not support the assertion by Bio-West that the CPO site is the source of nitrate and total nitrogen levels found in the Torgesen Ranch well. Groundwater flow at the CPO site is to the west southwest. In the area to the west of gypstacks 1, 2, and 3, nitrate and total nitrogen concentrations in groundwater are limited in extent. To the west of gypstacks 1, 2, and 3 nitrate and or total nitrogen have been detected above 10 milligrams per liter (mg/l) only in wells A-4, A-6, A-7, A-8 and A-9A. These wells are all screened in the upper portion of the basalt aquifer, generally between 100 and 200 feet bgs (Figures 9 and 10). Further to the west of gypstacks 1, 2, and 3 are wells A-11, A-12, and the Torgesen Ranch well. Well A-11 is just to the east of the fault zone and is screened in the upper portion of the aquifer. Nitrate and total nitrogen levels in this well are less than the concentrations detected in the Torgesen Ranch well. Well A-12 and the Torgesen Ranch well are located in the fault zone and are also screened in the upper portion of the aquifer. The fault is a preferential pathway for surface water infiltration and groundwater flow. Constituents in groundwater that may flow from the CPO site into the fault zone are diluted with the groundwater in the fault zone.

The groundwater flow pathway in the fault zone, evidenced by the hydraulic gradient, is from well A-12 toward the Torgesen Ranch well. Concentrations of nitrate and total nitrogen reported in well A-12 are consistently lower than the levels found in the Torgesen Ranch well. If the CPO site were the source of nitrate and total nitrogen found in the Torgesen Ranch well, the concentrations in well A-12 would be of the same order or higher. However, data show that the concentrations of nitrate and total nitrogen in well A-12 are substantially less than those in the Torgesen Ranch well.

As shown on Table 2, the nitrate and total nitrogen concentration (33.67 mg/l) reported in June 2008 for the Torgesen Ranch well is anomalously elevated, when compared to monitoring wells located within a 3,000-foot radius[2] (monitoring wells A-3, A-4, A-11, A-12, MW05-3, MW-05-4, MW05-5, and supply well NW-5). The sampling data from 2001 to 2008 shows that nitrate and total nitrogen concentrations in the

[2] Based on review of geology, the groundwater pathway (perpendicular and parallel to the western fault) may be a more appropriate measure of distance

Torgesen Ranch well were above 10 mg/l in 12 of 13 sampling events with the average being 31.7 mg/l. In June 2008, the total nitrogen concentration in the Torgesen Ranch well was 23 times greater than the concentration in well A-12 (the nearest well in the fault zone) and 13 times greater than the MW05 series wells to the north and northeast. Furthermore, the Torgesen Ranch well had 26, 1.4, 10, and 1.8 times greater total nitrogen than monitoring wells NW-5, A-11, A-3, and A-4, respectively. NW-5, A-3, A-4 and A-11 are located between the CPO facility and the Torgesen Ranch well, and would be expected to contain higher total nitrogen than the Torgesen Ranch well, if the CPO facility was the source of nitrogen in all five wells.

Appendix B presents iso-contour maps depicting Bio-West's interpretation of May 2007 nitrate and total nitrogen plumes in groundwater on the CPO and Torgesen Ranch properties and the groundwater elevation contours prepared by WSP. Bio-West's iso-contour maps include data from 8 wells[3] and depict plumes of nitrate and total nitrogen extending from the southeast portion of the CPO property a distance of more than 10,000 feet to the northwest onto the Torgesen Ranch property and northwest of the Torgesen Ranch well. These interpretations are approximately 48-degrees and 68-degrees north, respectively, from the west-southwest groundwater gradient. Based on the local hydrogeology, groundwater impacts emanating in the area of well MW-A on the CPO property would flow to west-southwest towards wells JRS-8 and JRS-10; not towards wells A-7 and A-8 as interpreted by Bio-West. Furthermore, the Bio-West interpretations omit data from other monitoring wells located between the southeastern portion of the CPO site and the Torgesen Ranch well that have lower concentrations of nitrate and nitrogen than found in the Torgesen Ranch well. These include wells A-7, A-8, A-6, A-5, A-3, A-11 and A-12. By including all of the relevant data, it is evident that nitrate and total nitrogen concentrations in groundwater on the southeastern portion of the CPO site are limited in extent, as shown on Figures 9 and 10. There is not a nitrate and total nitrogen plume extending from the area of well MW-A to the west-northwest as asserted by Bio-West. In the area west of gypstacks 1, 2, and 3, the levels of nitrate and total nitrogen detected in monitoring wells show no concentration gradients consistent with a plume. For example along transect Y-Y', which encompasses wells A-4, A-3, A-11, and A-12, nitrate and total nitrogen concentrations reported in June 2008 were 19 mg/l, 3.4 mg/l, 18 mg/l, and 1.5 mg/l, respectively. These wells are in sequence along the downgradient direction, and the sampling data demonstrates that impacted groundwater near the gypstacks has not migrated to the fault zone or the Torgesen Ranch well as suggested by Bio-West. If the scenario suggested by Bio-West was accurate, nitrate and total nitrogen concentrations in these intermediate wells would be higher than those in the Torgesen Ranch well; however, on the contrary, they are significantly lower. In summary, the data indicate that the elevated nitrate and total nitrogen concentrations in the Torgesen Ranch well are isolated from the impacted groundwater at the CPO facility and the Torgesen Ranch well is not hydraulically downgradient of the gypstacks (1, 2, and 3). Finally, the groundwater monitoring data demonstrates that tailings ponds 1, 2, 3, and 4 and the gypstack expansion area, located upgradient of the Torgesen Ranch well, are not the sources of nitrate and total nitrogen detected in the Torgesen Ranch well. In June 2008, nitrate and total nitrogen were not detected in wells A-2 (downgradient of tailings pond #4) and MW05-3 (downgradient of gypstack expansion area) while concentrations in wells NW-5 (downgradient of tailings pond 2) and MW05-5 (downgradient of MW05-5) were 1.3 mg/l and 1.6 mg/l, respectively (Figures 9 and 10).

Additionally, WSP evaluated phosphorous and sulfate concentrations detected in the 28 monitoring and production wells, to confirm our interpretation of groundwater conditions. Phosphorous and sulfate may be associated with raw materials, products, and /or by-products of the manufacturing operations. The June 2008 data for these constituents are presented in Figures 11 and 12. As is evident in the Figures, phosphate and sulfate concentrations in groundwater show a pattern consistent with that identified for nitrate and total nitrogen; that is, there is no concentration gradient to the northwest from the area around

[3] MWA, NW-9, JRS-8, JRS-10, A-8, A-6, A-11, and the Torgesen Ranch well

well MW-A or to the west of gypstacks 1, 2, and 3. This further supports WSP's interpretation of groundwater flow conditions and our conclusion that the CPO operations are not the source of nitrate and total nitrogen in the Torgesen Ranch well.

In summary, the data evaluated for the 28 wells and groundwater flow pathways do not support the assertion by Bio-West that the CPO site is the source of nitrate and total nitrogen levels found in the Torgesen Ranch well. Groundwater flow at the CPO site is to the west-southwest. In the area to the west of gypstacks 1, 2, and 3 nitrate and total nitrogen concentrations in groundwater show no concentration gradient but generally decrease in the downgradient groundwater flow direction, which is west-southwest. This same trend is apparent in the manufacturing area where nitrate and total nitrogen concentrations decrease to the west-southwest. The fault to the west of the CPO site appears to be a preferential pathway for surface water infiltration and groundwater flow. Well A-12 is located in the fault zone and is upgradient of the Torgesen Ranch well. Nitrate and total nitrogen concentrations in A-12 are substantially less than found in the Torgesen Ranch well. As evidenced by the available data, the Torgesen Ranch well has not been impacted by operations at the CPO site.

3.2 OTHER SOURCES OF NITROGEN AND NITRATE

In general, there are three[4] major nitrogen measurements of interest in the environment: ammonia, nitrate and total Kjeldahl nitrogen (TKN). Of the three, nitrate is the most significant with respect to compliance with Idaho groundwater quality standards. The factors which influence nitrate in groundwater are the land application of ammonia/ammonium or nitrogen from organic matter (represented by TKN) which oxidize or mineralize into nitrate; or the land application of nitrate directly, a potentially large fraction of which may leach into groundwater. The nitrogen which may potentially form nitrate can be estimated by summing nitrate and TKN concentrations, which is designated as total nitrogen. The major parts of the nitrogen cycle are depicted in Appendix C.

As discussed in Section 2.2 of this report, there is evidence that the fault zone where well A-12 and the Torgesen Ranch well are located is a preferential pathway for surface water infiltration and groundwater recharge. The Torgesen Ranch property receives surface water drainage from north of the CPO site, including from a spring (Woodall Spring) referred to in the EPA's On Scene Coordinator pollution report for the 2006 release (EPA, 2007). Woodall Spring reportedly drains into the area labeled "Pond A" on Figure 2, after traversing approximately 3 miles of rangeland or livestock ranch (USGS, 1982). This surface drainage feature (including the area labeled "Pond A" on Figure 2) may transport ammonium, organic nitrogen, and/or nitrate from elsewhere in the watershed which infiltrates with the surface water into groundwater connected to the Torgesen Ranch well and well A-11. In addition, there is also anecdotal information indicating that at one time cattle feed operations and cattle grazing occurred on or in the vicinity of the well on the Torgesen property. These activities are known sources of nitrate and total nitrogen impacts to groundwater.

The issue surrounding nitrate levels in the Torgesen well was evaluated by the EPA in 1994 as part of an expanded site inspection of the Nu-West Industries facility. Groundwater samples were collected from onsite production wells and selected local domestic wells and analyzed for EPA Target Analyte List metals and indicator parameters specific to phosphate ore processing or agricultural activities (nitrate, ammonia, phosphate, sulfate, fluoride, chloride, and gross alpha and beta counts). Nitrate was detected in the Torgesen well at 29 mg/l. Based on an evaluation of the groundwater sampling data and hydrogeology, the EPA made the following conclusion: "Analytical results from the sampled wells suggest that the elevated nitrate detected in the Torgesen well is not attributable to the Nu-West Industries site. A

[4] A fourth common measurement (nitrite) is problematic because available methods are semi-quantitative, and processes in the environment which convert ammonia to nitrate produce nitrite only as an intermediary which is quickly converted to nitrate. The nitrogen from ammonia is included in the measurement of TKN.

potential source of this contamination may be cattle ranching and farming activities at or near the Torgesen ranch." (EPA 1994).

According to IDWR records, a well was constructed on the Torgesen Ranch property around 1900. In 1970, the well was replaced by the current Torgesen Ranch well. No information was available on the construction of the 1900 well, how it was closed or abandoned, and whether it may be a conduit for nitrogen and other contaminants on the Torgesen Ranch.

4 Conclusions

Based on review of the regional and local geology, groundwater occurrence, and chemical data presented in this report, WSP concludes that the operations at the CPO site are not the source of the concentrations of nitrate and total nitrogen in the Torgesen Ranch well.

WSP's evaluation demonstrates the following:

- Although there are a series of basalt/lava flows comprising the basalt aquifer, they are all hydraulically connected and are not separate units as asserted by Bio-West.
- Groundwater flow is to the west-southwest. However, Bio-West's interpretation of the nitrate and total nitrogen distribution patterns is greater than 45-degrees north from the west-southwest groundwater gradient. Based on the local hydrogeology, groundwater impacts emanating in the area of well MWA on the CPO site would flow to west-southwest towards wells JRS-8 and JRS-10; not towards the northwest as interpreted by Bio-West.
- The effects of drawdown caused by pumping 18 gpm from the Torgesen Ranch well are minimal, contrary to Bio-West's assertion.
- The distribution of nitrate and total nitrogen concentrations in groundwater west of the gypstacks is limited in extent and decreases in the downgradient direction.
- Although the fault zone likely is a preferential flow pathway, the data for all available wells demonstrate that elevated nitrate and total nitrogen concentrations have not migrated from the CPO site to the Torgesen Ranch well. These include wells A-7, A-8, A-6, A-5, A-3, A-11 and A-12. Instead, the data show that nitrate and total concentrations in groundwater on the southeastern portion of the CPO site are limited in extent, as shown on Figures 9 and 10. In the area west of gypstacks 1, 2, and 3, nitrate and total nitrogen levels detected in wells show no consistent or continuous concentration gradient. For example along transect Y – Y', which encompasses wells A-4, A-3, A-11, and A-12, nitrate and total nitrogen concentrations reported in June 2008 were 19 mg/l, 3.4 mg/l, 18 mg/l, and 1.5 mg/l, respectively. These wells are spatially in sequence along the groundwater gradient. The sampling data demonstrates that impacted groundwater near gypstacks 1, 2, and 3 has not migrated to the fault zone or the Torgesen Ranch well.
- The likely sources of nitrogen found in the Torgesen Ranch well include use of the land as a livestock pasture, septic systems, and recharge that occurs within the fault zone from other upland areas. A 1994 EPA report identified cattle ranching and farming activities at or near the Torgesen ranch as potential sources of nitrate impacts found in the Torgesen well. Also, EPA's On Scene Coordinator pollution report for the 2006 release identified a surface drainage feature on the Torgesen property as a possible pathway for transport of ammonium, organic nitrogen, and/or nitrate from elsewhere in the watershed which infiltrates with the surface water into groundwater connected to the Torgesen Ranch well.

WSP's findings and conclusions are consistent with Enercon's Ecological Risk Assessment (Enercon, 2008) and EPA's site inspection report (EPA, 1994):

- the December 2006 release from the northern gypstack is not a significant source of potential impact to the bedrock aquifer, and
- the CPO operations are not a significant source of nitrogen contamination in the Torgesen Ranch well.

NUW 005865

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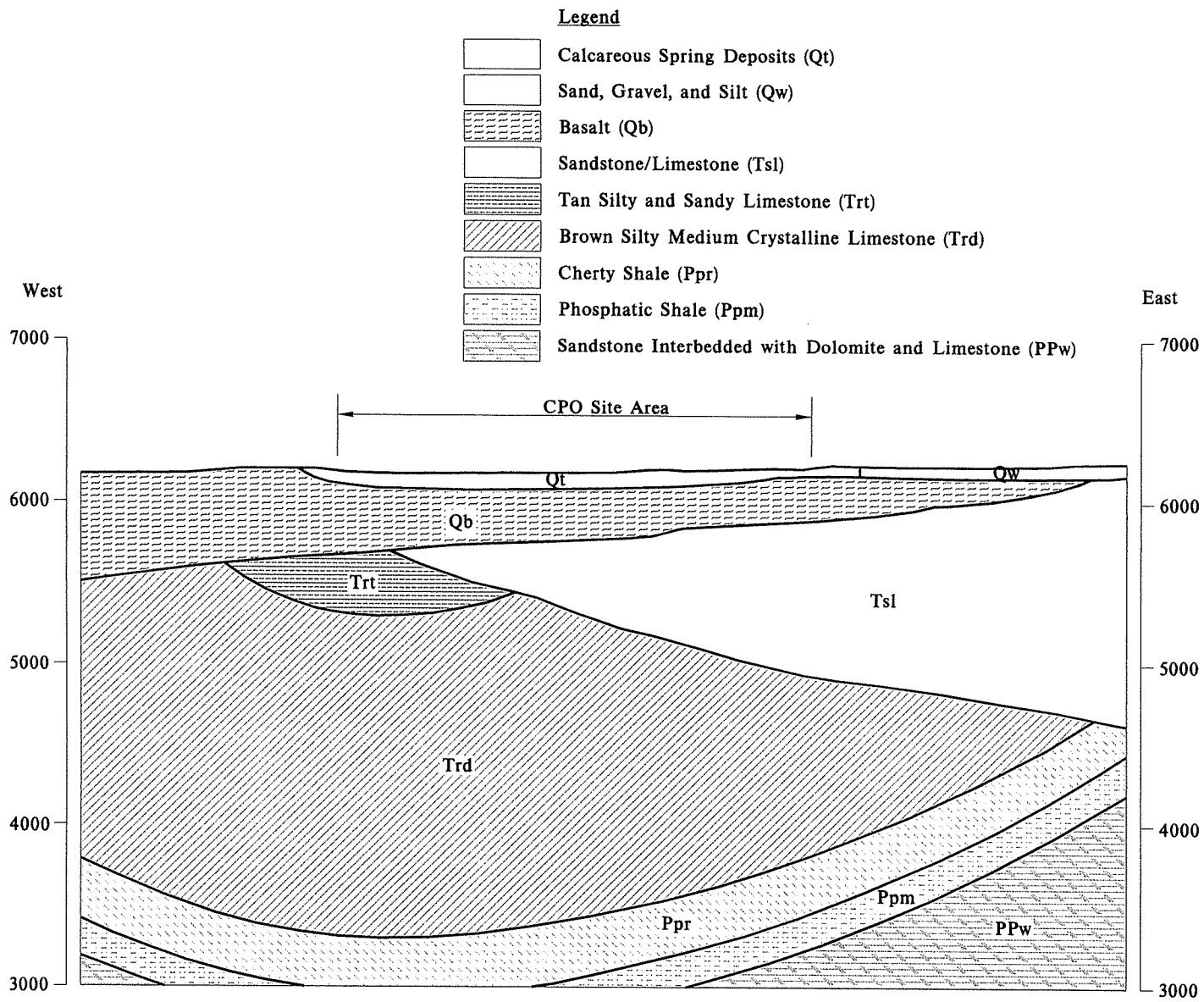
Figures



REFERENCE: USGS MAP I-557 (1969) GEOLOGIC MAP OF THE SODA SPRINGS QUADRANGLE, SOUTHEASTERN IDAHO.

WSP WSP Environment & Energy 4600 South Ulster Street Suite 930 Denver, Colorado 80237 (303) 850-9200	FIGURE 1 GENERALIZED GEOLOGIC CROSS-SECTION	CPO SODA SPRINGS, IDAHO	Drawn By: Checked: Approved: DWG Name: 08024501

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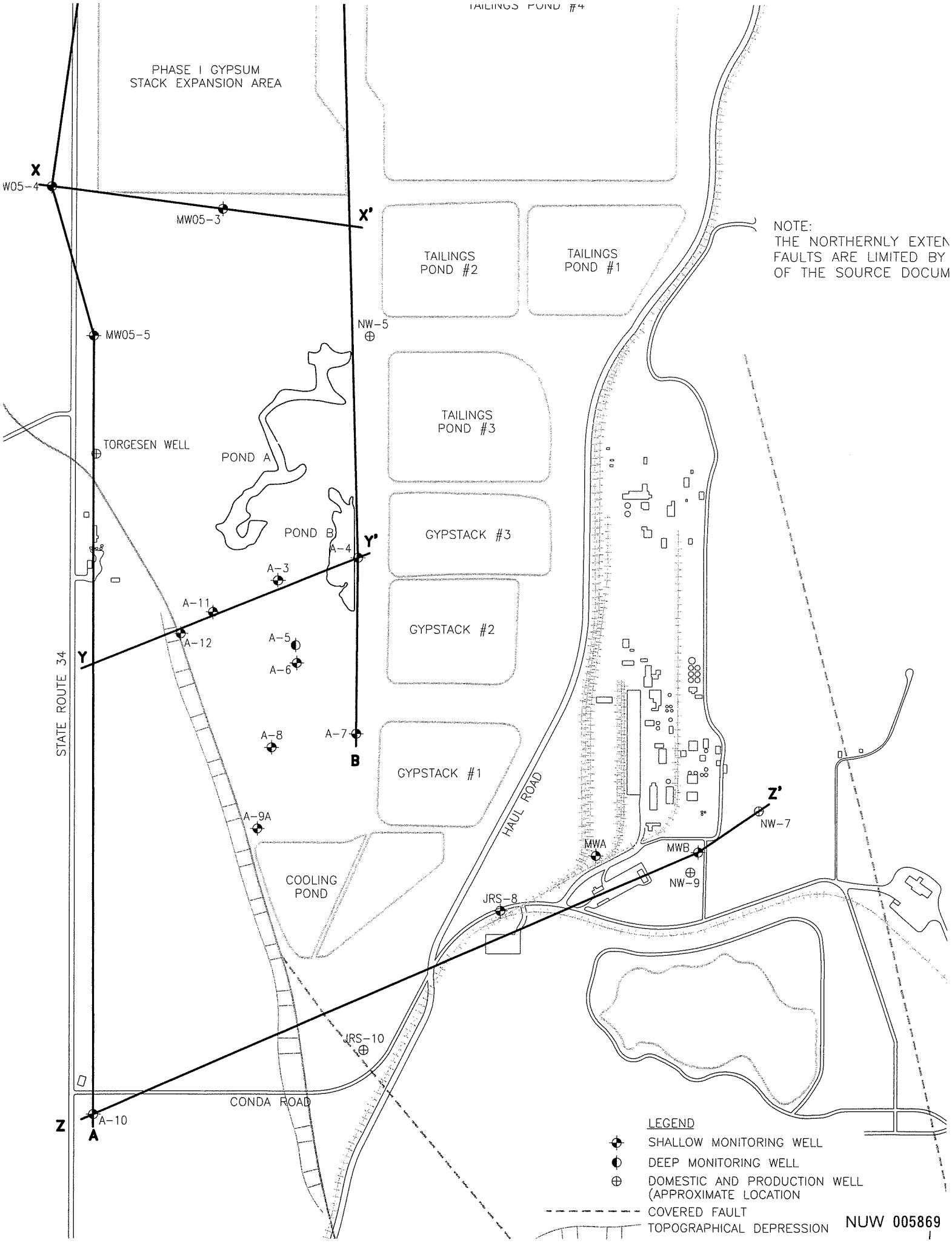
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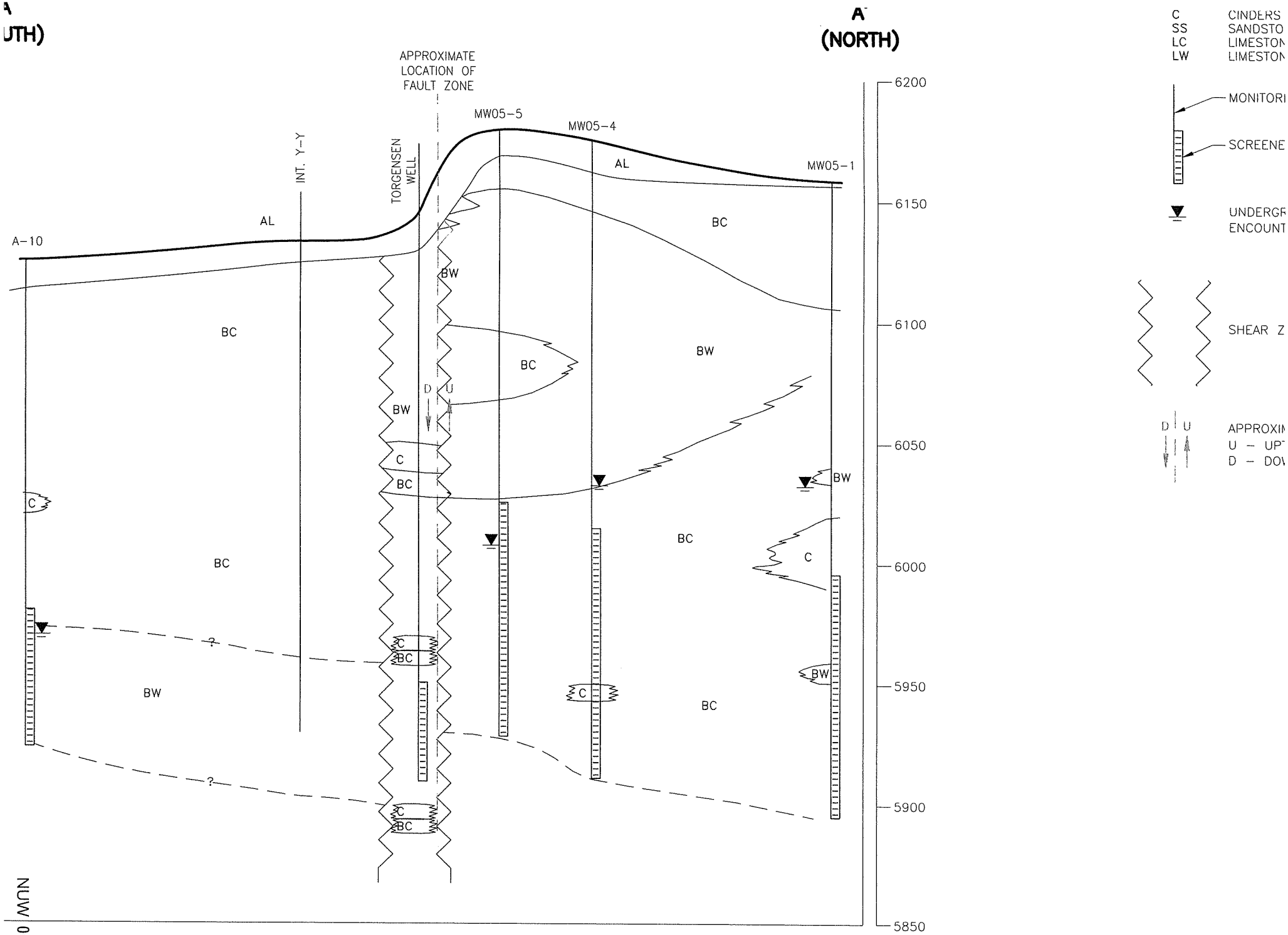
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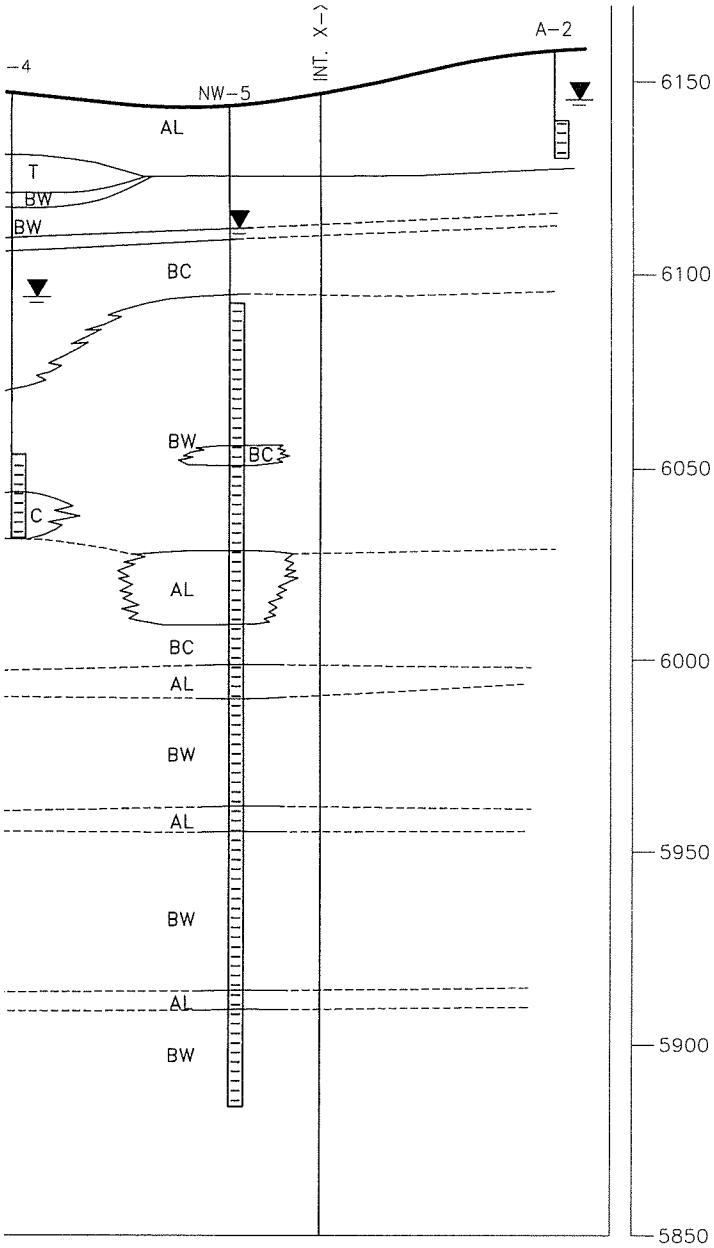

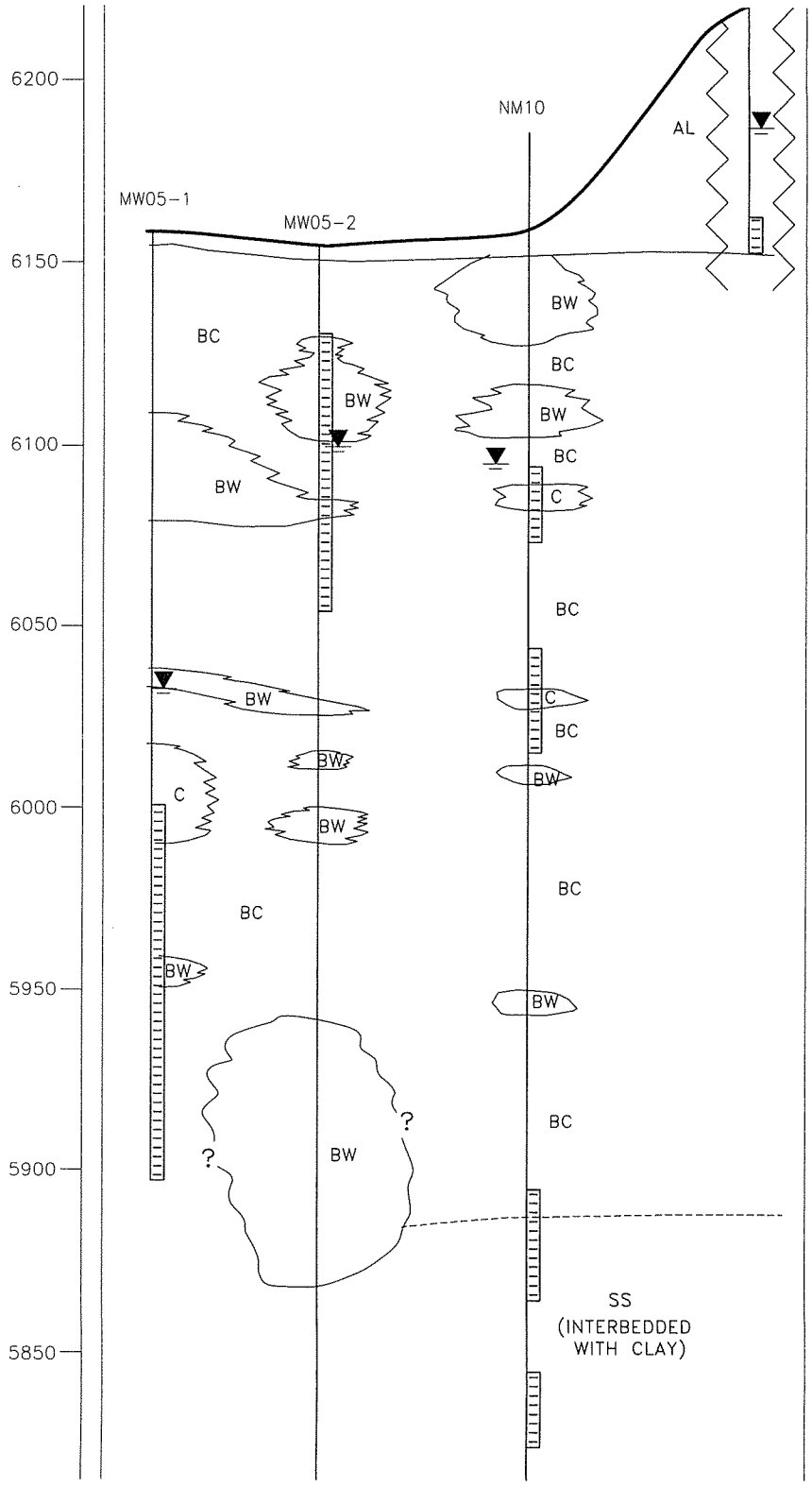

LEGEND

AL	ALLUVIUM
BC	BASALT, COMPETENT
BW	BASALT, WEATHERED
C	CINDERS (MAY INCLUDE ASH SAND)
SS	SANDSTONE
LC	LIMESTONE, COMPETENT
LW	LIMESTONE, WEATHERED
T	TUFF, CALCAREOUS
	MONITORING WELL

SHEAR ZONE

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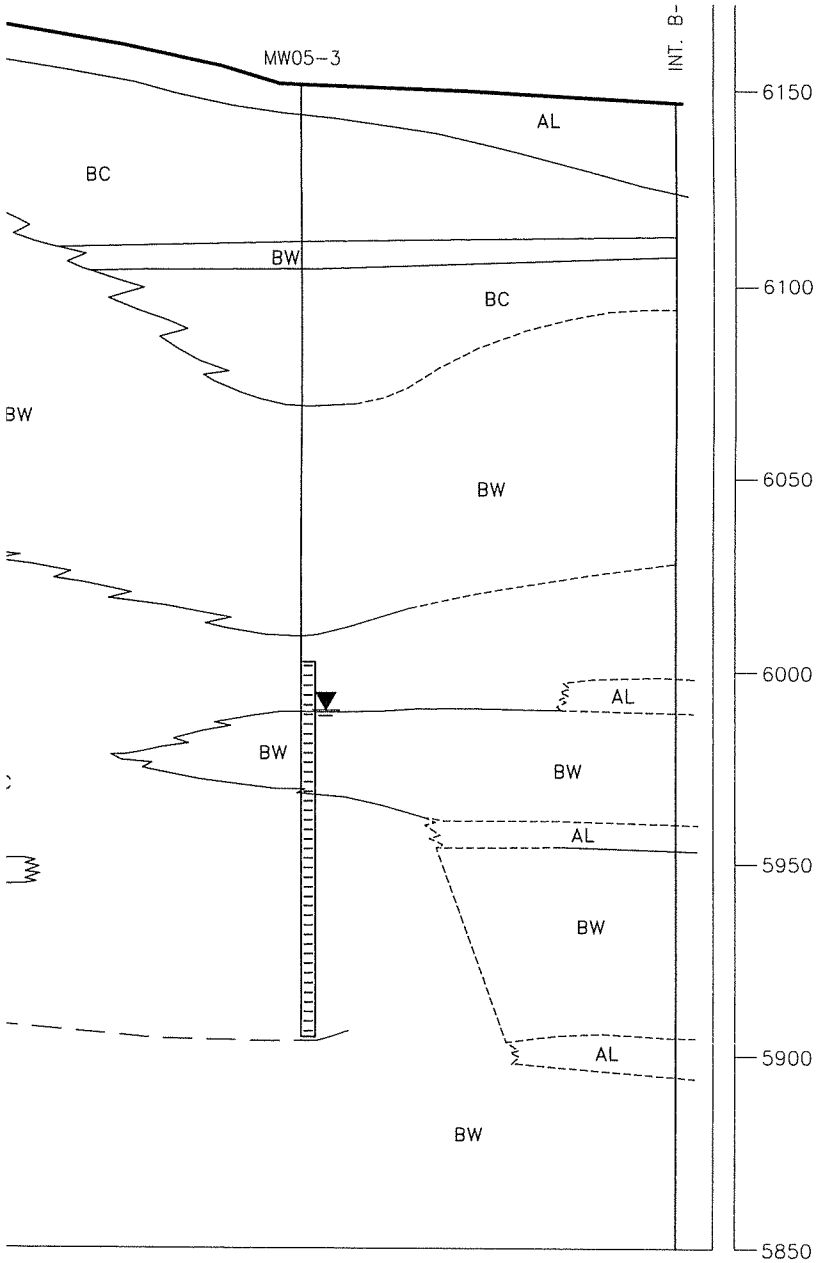

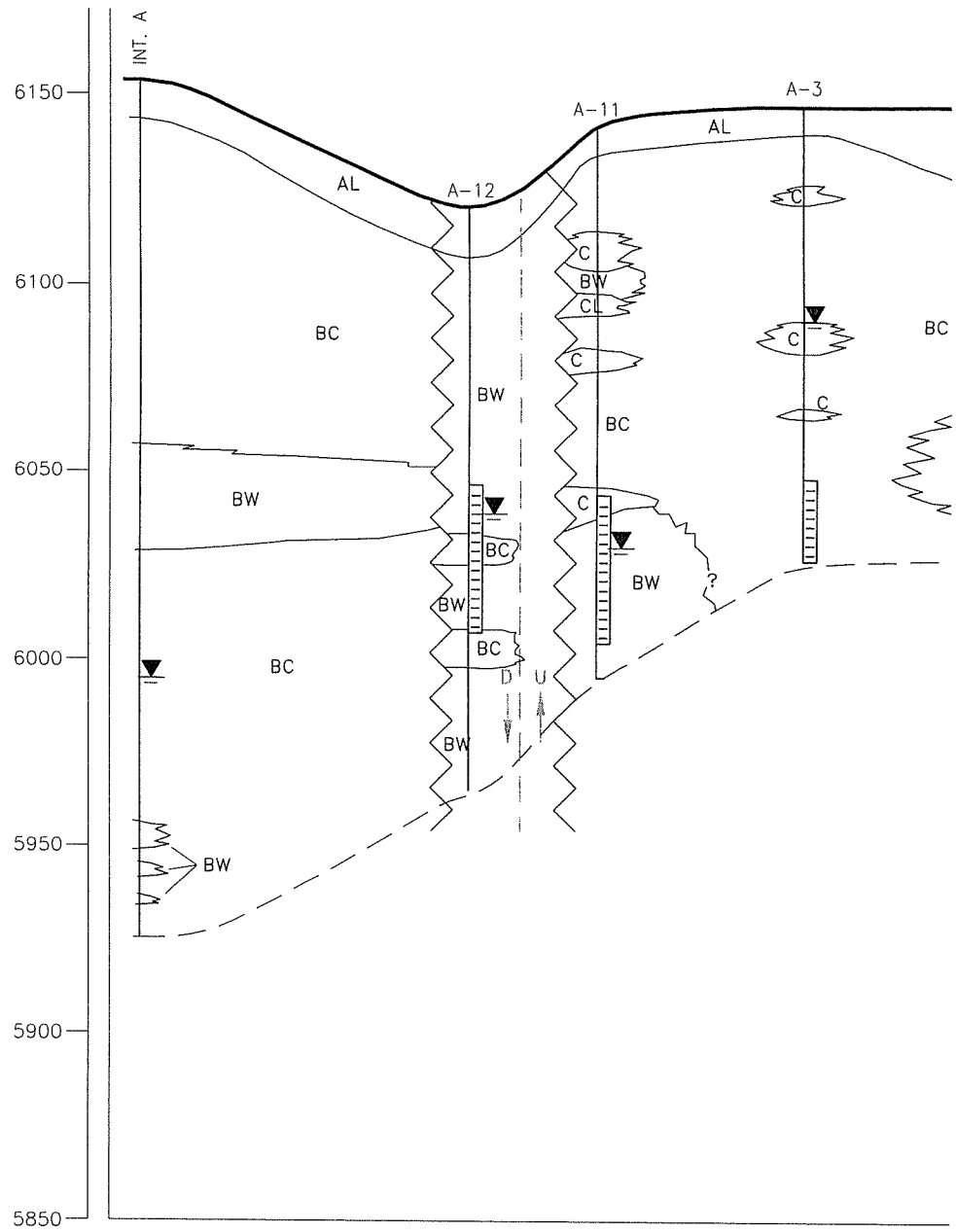

LEGEND

AL	ALLUVIUM
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BW	BASALT, WEATHERED
C	CINDERS (MAY INCLUDE ASH SAND)
SS	SANDSTONE
LC	LIMESTONE, COMPETENT
LW	LIMESTONE, WEATHERED

SHEAR ZONE

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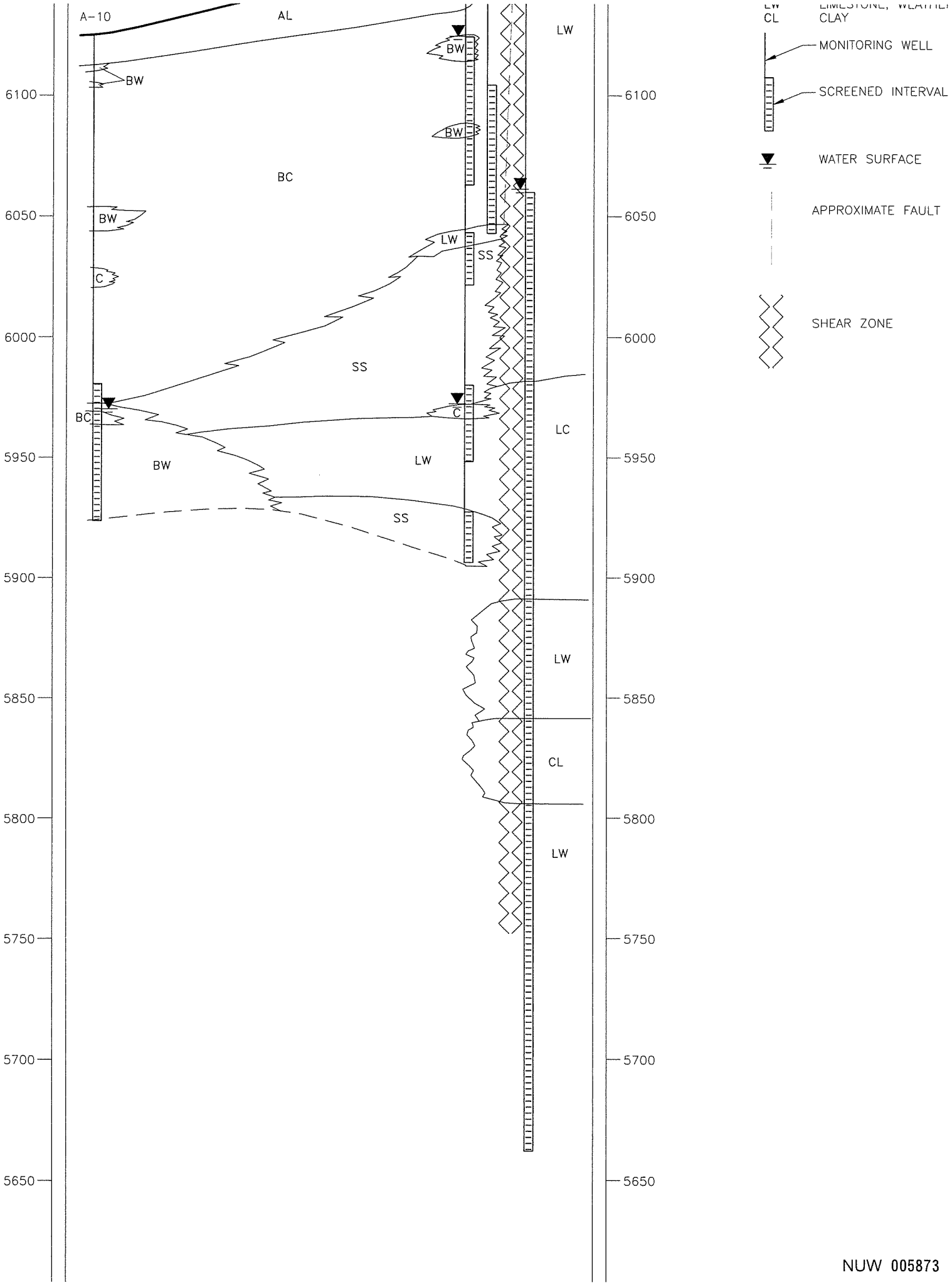
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Figure 7
Basalt Wells Predominant Pattern of Water Levels
Nu-West Industries CPO Facility
Conda, Idaho

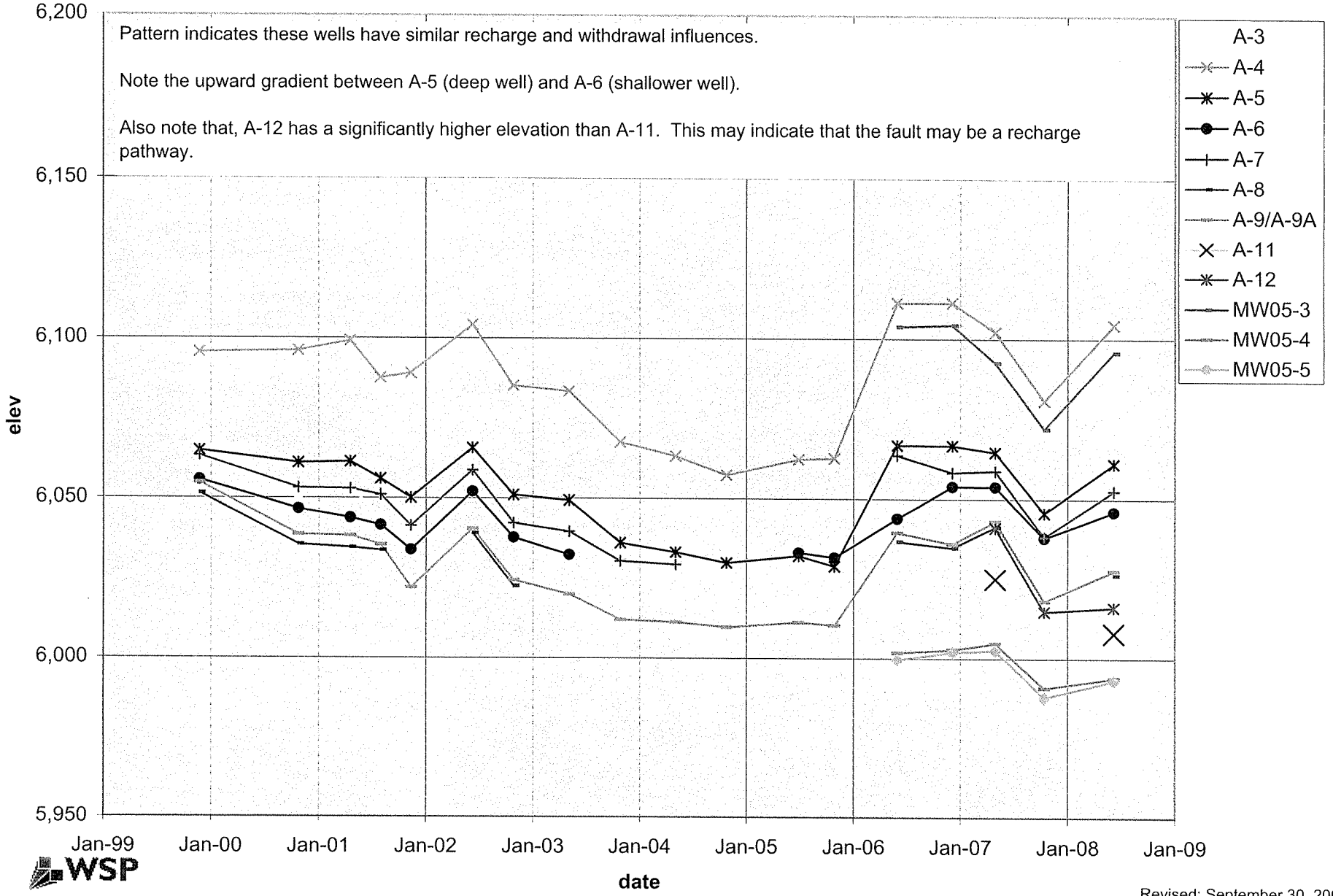

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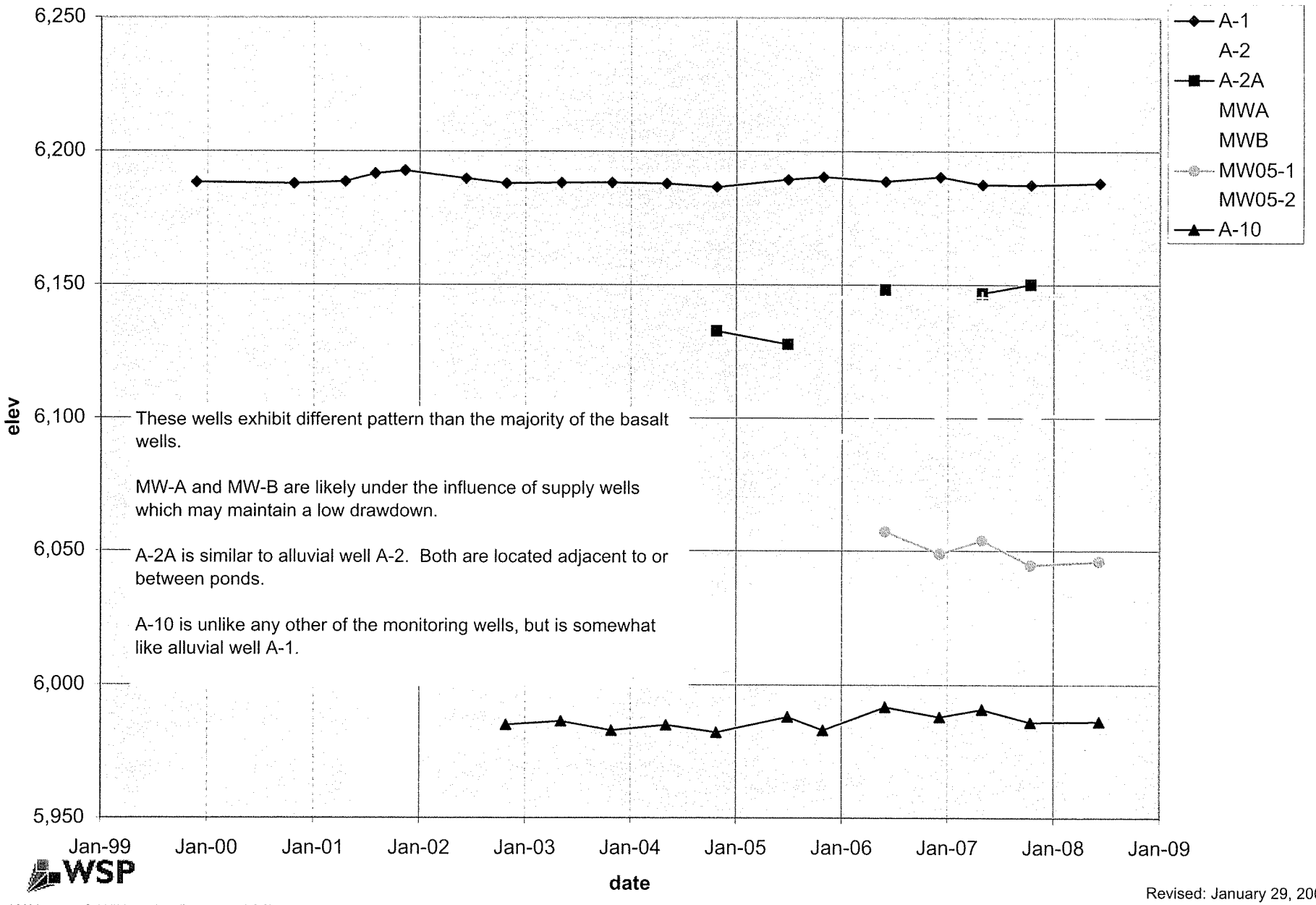
Figure 8
Basalt Wells Other Patterns of Water Levels
Nu-West Industries CPO Facility
Conda, Idaho



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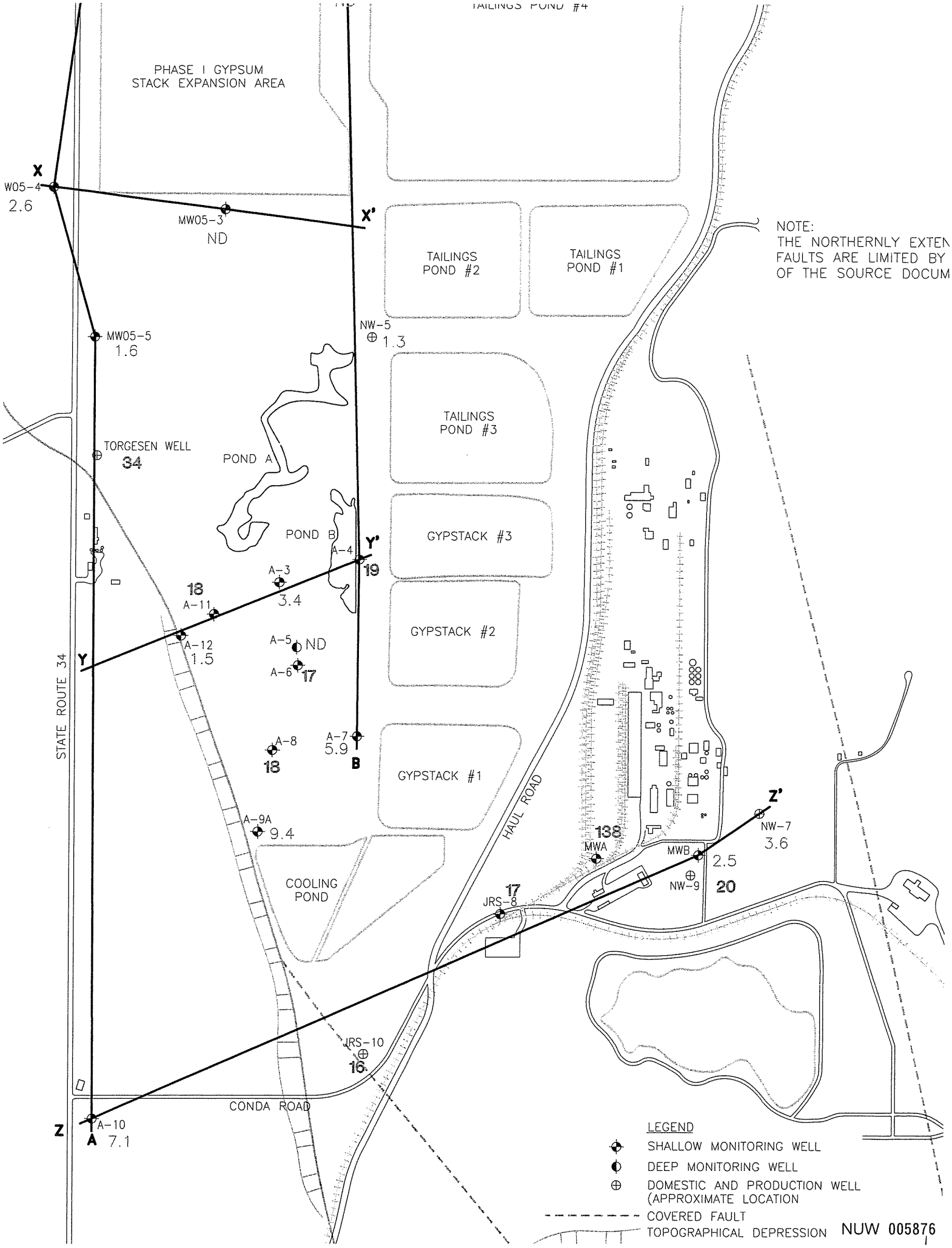
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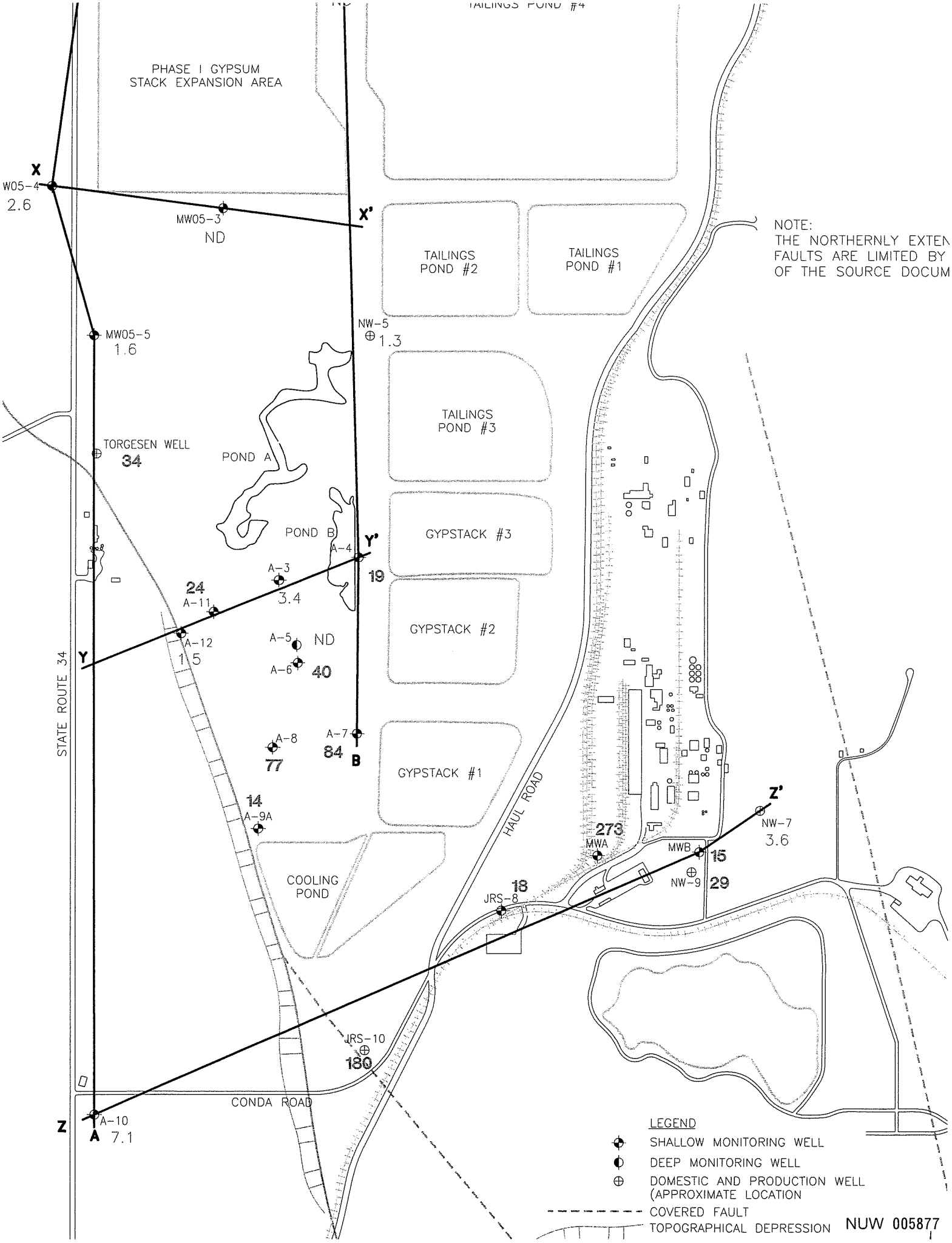
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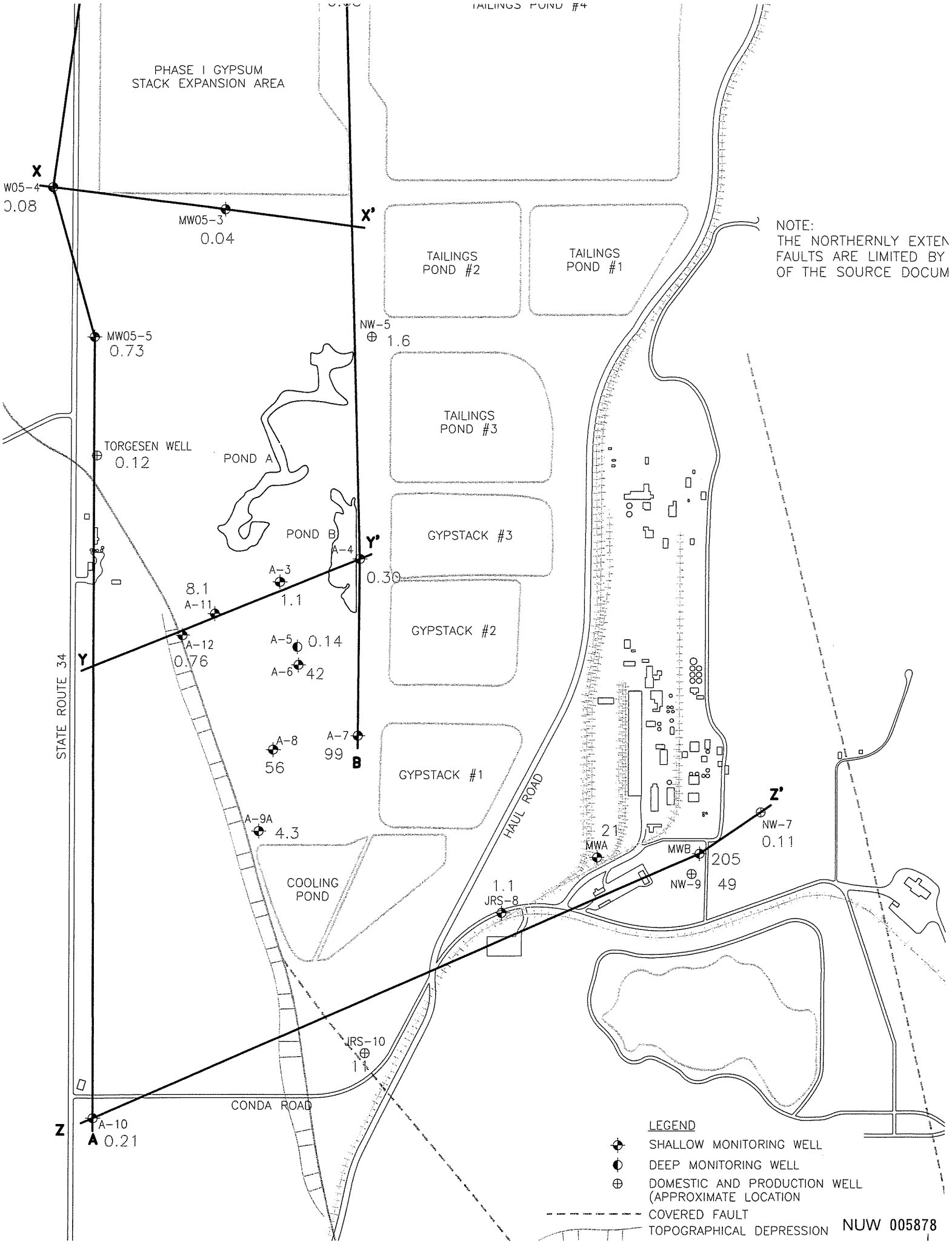
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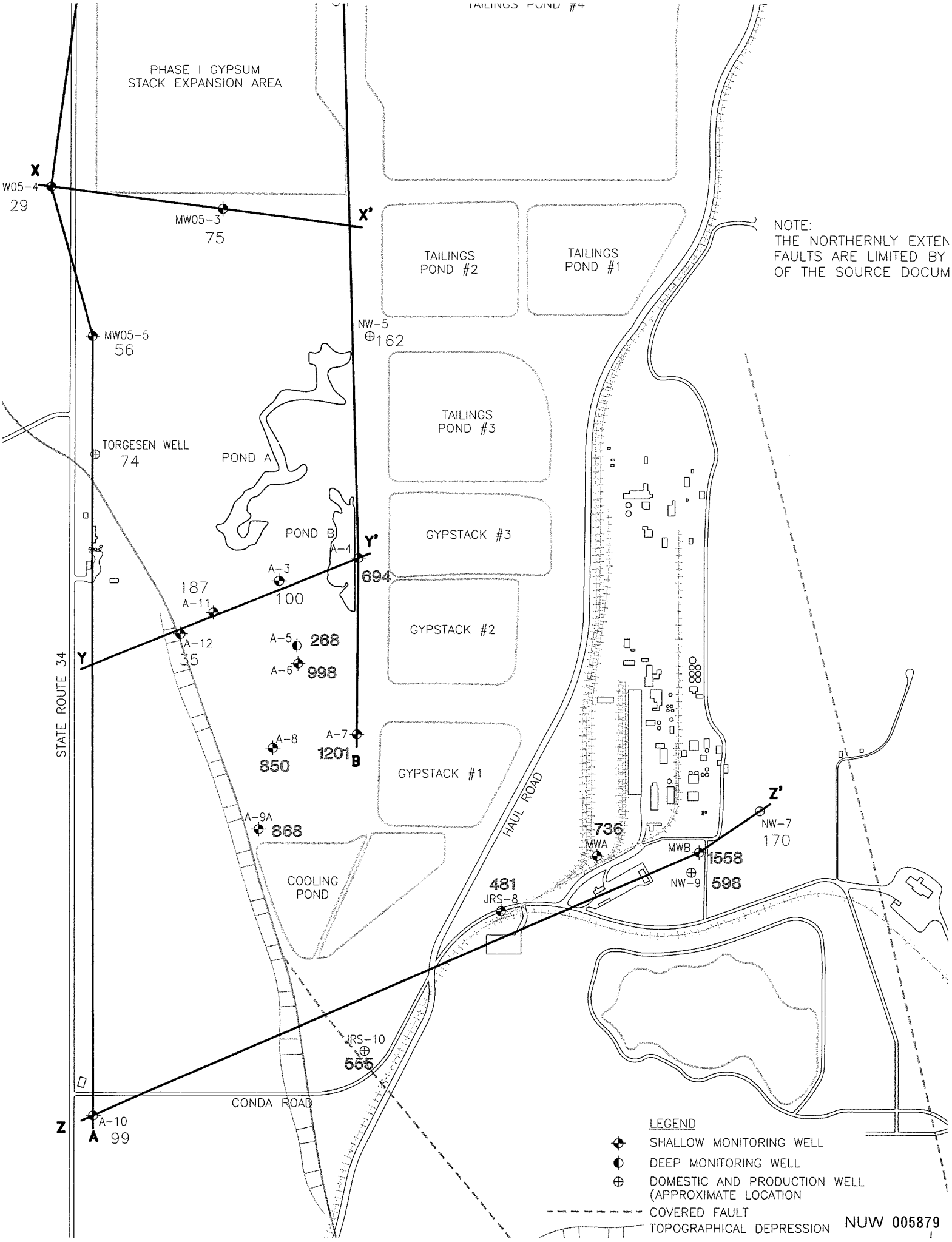
1.6
TAILINGS
POND #3
TORGESEN WELL
0.12
POND A
POND B
Y'
A-4
0.30
GYPSTACK #3
A-3
1.1
8.1
A-11
A-12
0.76
Y
A-5
0.14
A-6
42
GYPSTACK #2
STATE ROUTE 34
A-8
56
A-7
99
B
GYPSTACK #1
HAUL ROAD
Z'
NW-7
0.11
A-9A
4.3
21
MWA
MWB
205
NW-9
49
COOLING
POND
1.1
JRS-8
JRS-10
CONDA ROAD
Z
A-10
A
0.21
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION

NUW 005878


TAILINGS POND #4
PHASE I GYPSUM
STACK EXPANSION AREA
X
W05-4
29
MW05-3
75
X'
TAILINGS
POND #2
TAILINGS
POND #1
NOTE:
THE NORTHERNLY EXTEN
FAULTS ARE LIMITED BY
OF THE SOURCE DOCUM
MW05-5
56
NW-5
162
TAILINGS
POND #3
TORGESEN WELL
74
POND A
POND B
A-4
Y'
GYPSTACK #3
694
A-3
100
187
A-11
GYPSTACK #2
A-12
35
A-5
268
Y
A-6
998
A-8
850
A-7
1201
B
GYPSTACK #1
STATE ROUTE 34
HAUL ROAD
Z'
NW-7
170
A-9A
868
736
MWA
MWB
1558
NW-9
598
COOLING
POND
481
JRS-8
JRS-10
555
CONDA ROAD
Z
A-10
A
99
LEGEND
SHALLOW MONITORING WELL
DEEP MONITORING WELL
DOMESTIC AND PRODUCTION WELL
(APPROXIMATE LOCATION
COVERED FAULT
TOPOGRAPHICAL DEPRESSION

NUW 005879

Tables

Water Level Collection Date and Water Elevation (feet NGVD)

Nov-99	Oct-00	Apr-01	Jul-01	Nov-01	Jun-02	Oct-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06
6188.38	6187.97	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46	6188.15	6186.81	6189.7	6190.7	6189.0	6190.7
6,145.04	6,146.53	6,147.17	6,144.83	6,145.23	6,143.29	6,138.37	6,127.09			6,134.7	6127.0	6146.0	6144.9	6144.8
										6,133.00	6,128.00		6148.4	
6,068.35	6,050.29	6,053.88	6,042.97		6,054.70								6060.4	6062.8
6,095.51	6,096.05	6,099.15	6,087.53	6,089.07	6,104.19	6,085.11	6,083.38	6067.68	6,063.33	6,057.48	6062.4	6062.8	6111.5	6111.5
6,064.89	6,061.00	6,061.39	6,056.05	6,050.18	6,065.79	6,051.14	6,049.55	6036.31	6,033.40	6,030.12	6032.4	6029.2	6067.0	6066.9
6,055.69	6,046.70	6,043.93	6,041.69	6,033.93	6,052.14	6,037.87	6,032.56				6033.4	6031.9	6044.2	6054.2
6,063.30	6,053.17	6,052.93	6,051.05	6,041.42	6,058.77	6,042.37	6,039.77	6030.56	6,029.60				6063.8	6058.5
6,051.48	6,035.65	6,034.67	6,033.77		6,039.21	6,022.65							6037.0	6035.0
6,054.77	6,038.70	6,038.30	6,035.51	6,022.08	6,040.57	6,024.44	6,020.09	6012.09	6,011.37	6,009.79	6011.4	6010.4	6039.7	6036.3
						5,985.16	5,986.58	5983.11	5,985.20	5,982.45	5988.3	5983.3	5992.0	5988.3
													6057.6	6049.2
													6144.3	6147
													6104	6104.5
													6002	6003
													5999.8	6002.2
												6087.7	6103.8	6101.8
												6089.4	6103.2	6101.7

Spring 2008 Assessment, Nu-West Industries, Inc. (dba Agrium U.S. Inc. Conda Phosphate Operations), Soda Springs, Idaho . Engineers, Inc., Silver City, NM. August 2008.

Table 2
Nitrogen Data - June 2008
Nu-West Industries CPO Facility
Conda, Idaho

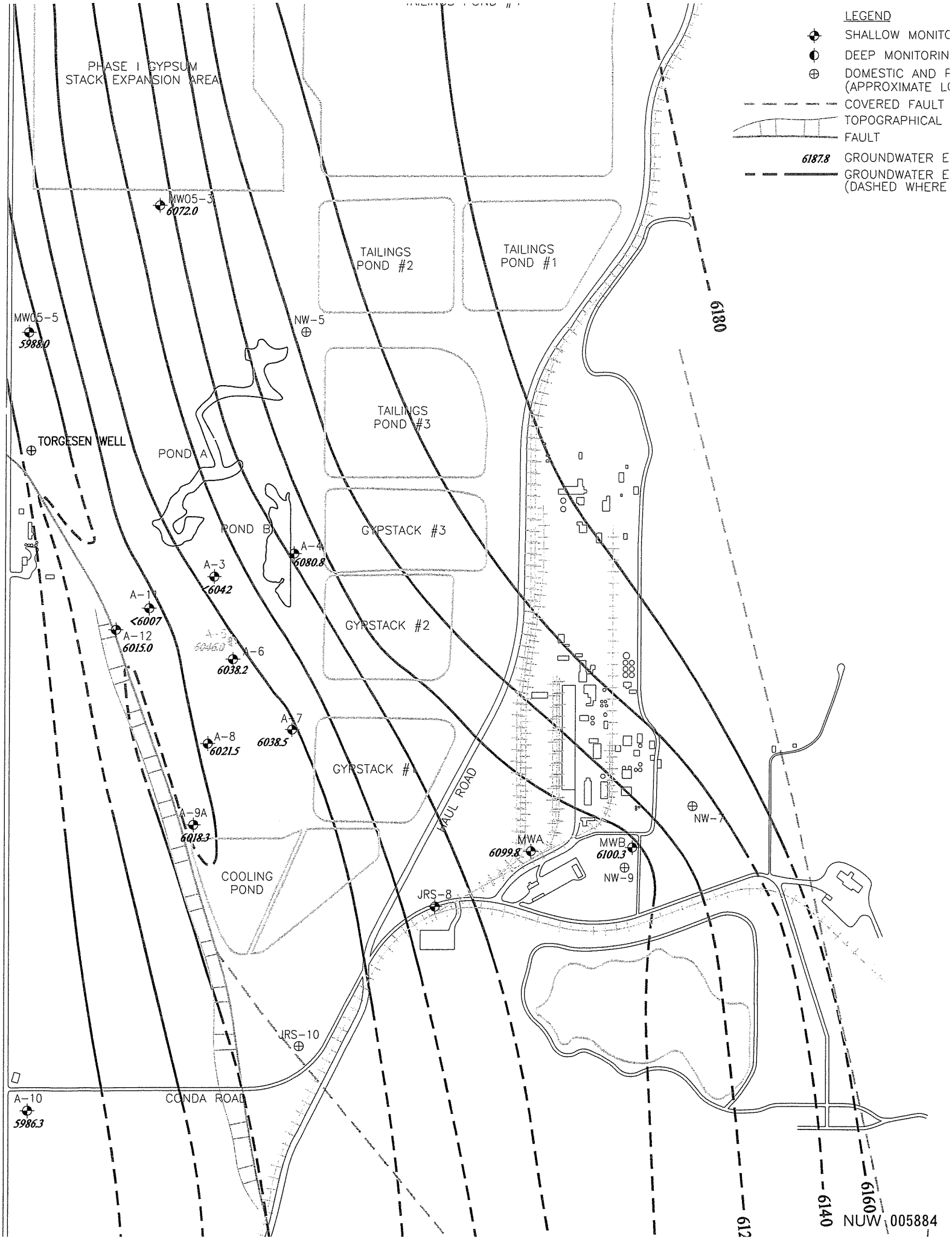
Well	Approximate Distance from Torgesen Ranch Well		TKN (mg/l)	Nitrate (mg/l)	Estimated Total Nitrate (mg/l) [a]
	Groundwater Pathway Distance (feet)	Radial Distance (feet)			
Torgesen	0	0	< 0.5	33.67	33.7
A-12	2000	2000	1.46	< 0.5	1.5
A-11	2400	2000	18.39	6.0	24.4
NW-5	3000	3000	< 0.5	1.27	1.3
A-3	3200	2300	< 0.5	3.4	3.4
A-6	3700	2800	17.39	22.8	40.2
A-4	4000	2800	< 0.5	19.04	19.0
A-8	4000	3500	17.73	59.7	77.4
A-9A	4200	4200	9.38	5.0	14.4
A-7	5000	4000	78.3	5.93	84.2

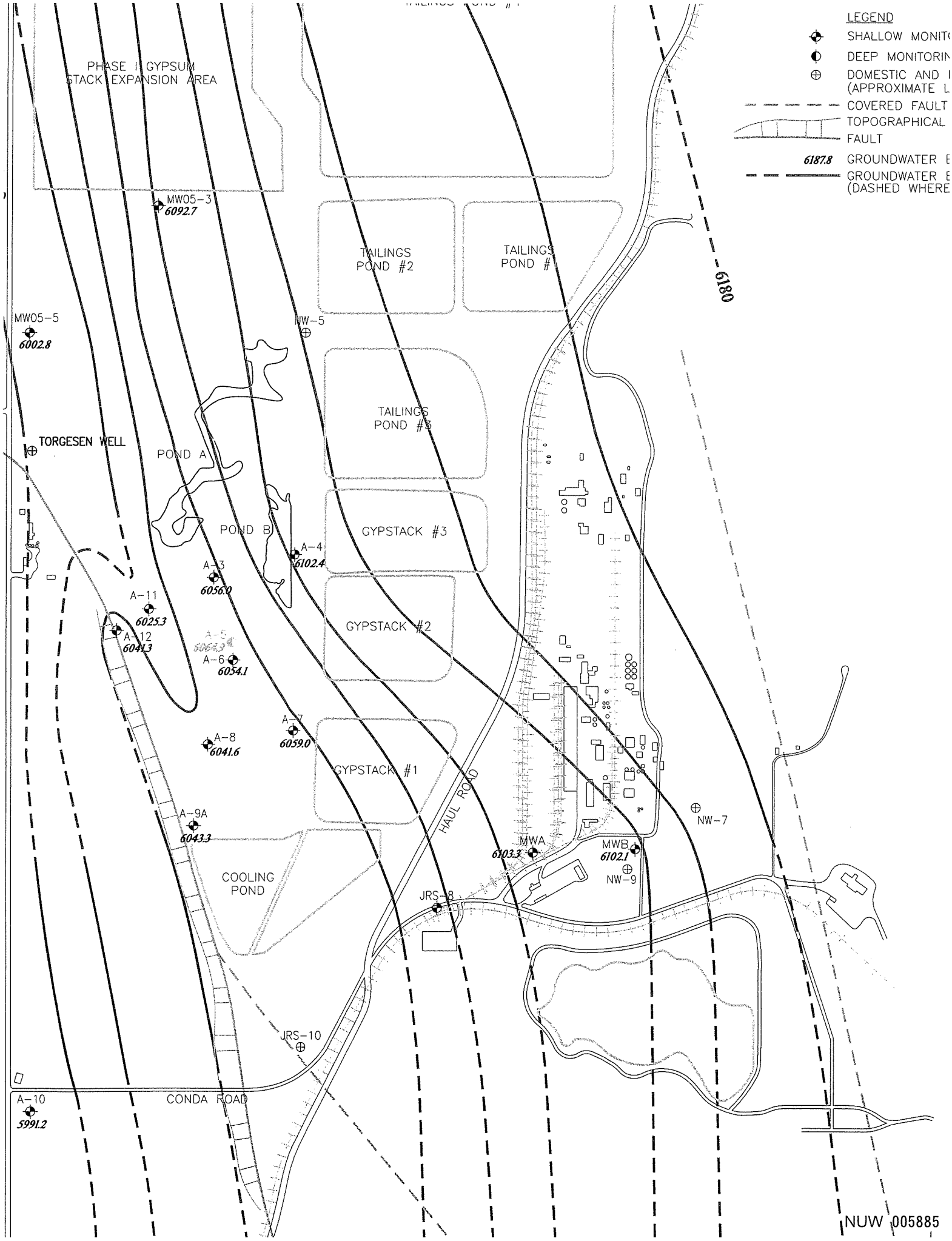
Reference: *Ground Water Assessment Report, Spring 2008 Assessment, Nu-West Industries, Inc. (dba Agrium U.S. Inc. Conda Phosphate Operations), Soda Springs, Idaho*. Engineers, Inc., Silver City, NM. August 2008.

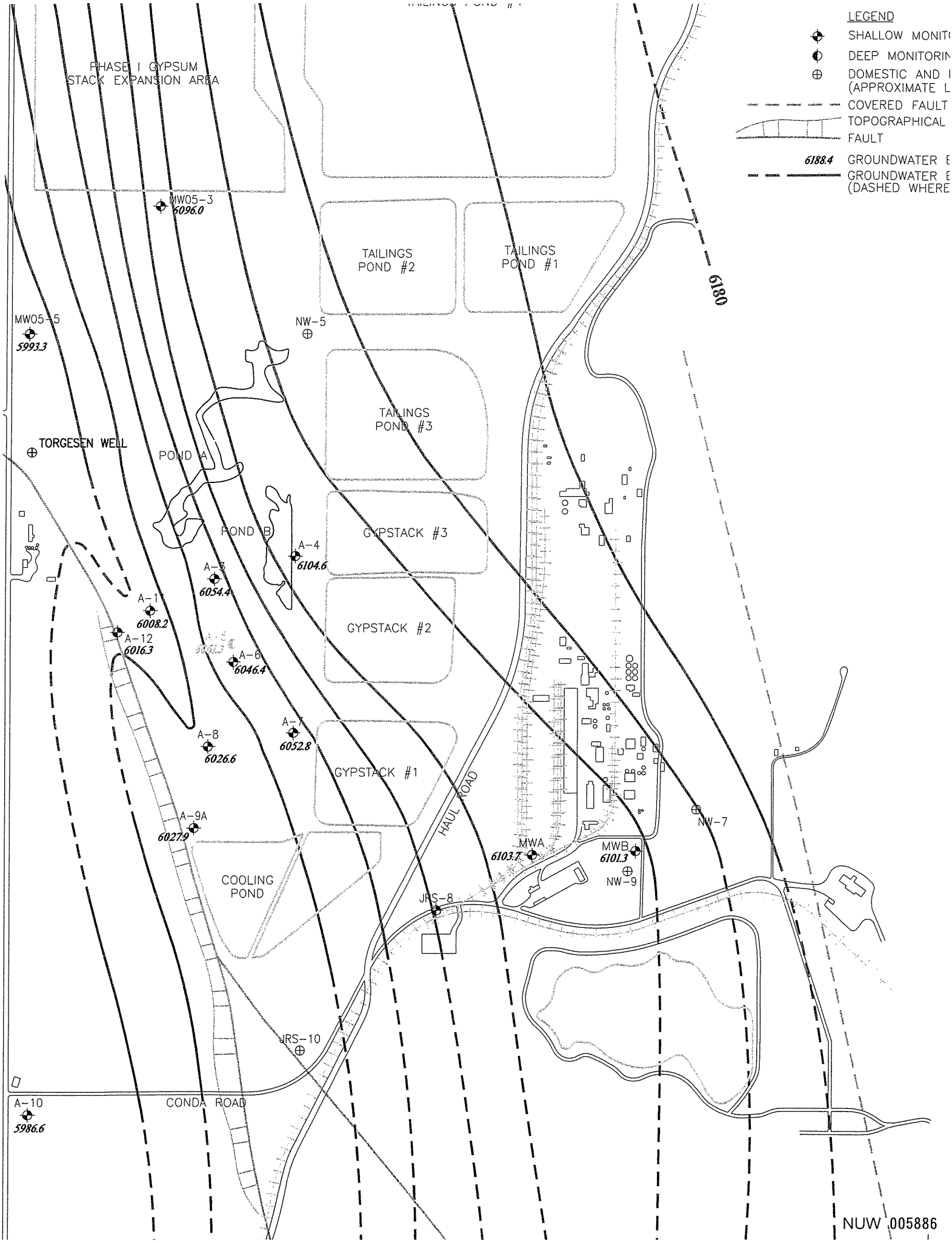
[a] For the wells which were installed before the December 27, 2006 Gypstack release, the June 2008 potential nitrate concentrations are consistent with the 2001 to 2008 data set.

[b] A-12 is located in the same fault zone as the Torgesen well, in an area with a higher piezometric head, thus is effectively an upgradient well. The distances assume a groundwater flow path from the CPO facility and gypstacks toward the west, then along the fault to the Torgesen well. Wells MW05-3, -4, and -5 (north of the Torgesen well and west of the CPO facility) had less than 2.6 mg/l potential nitrate.

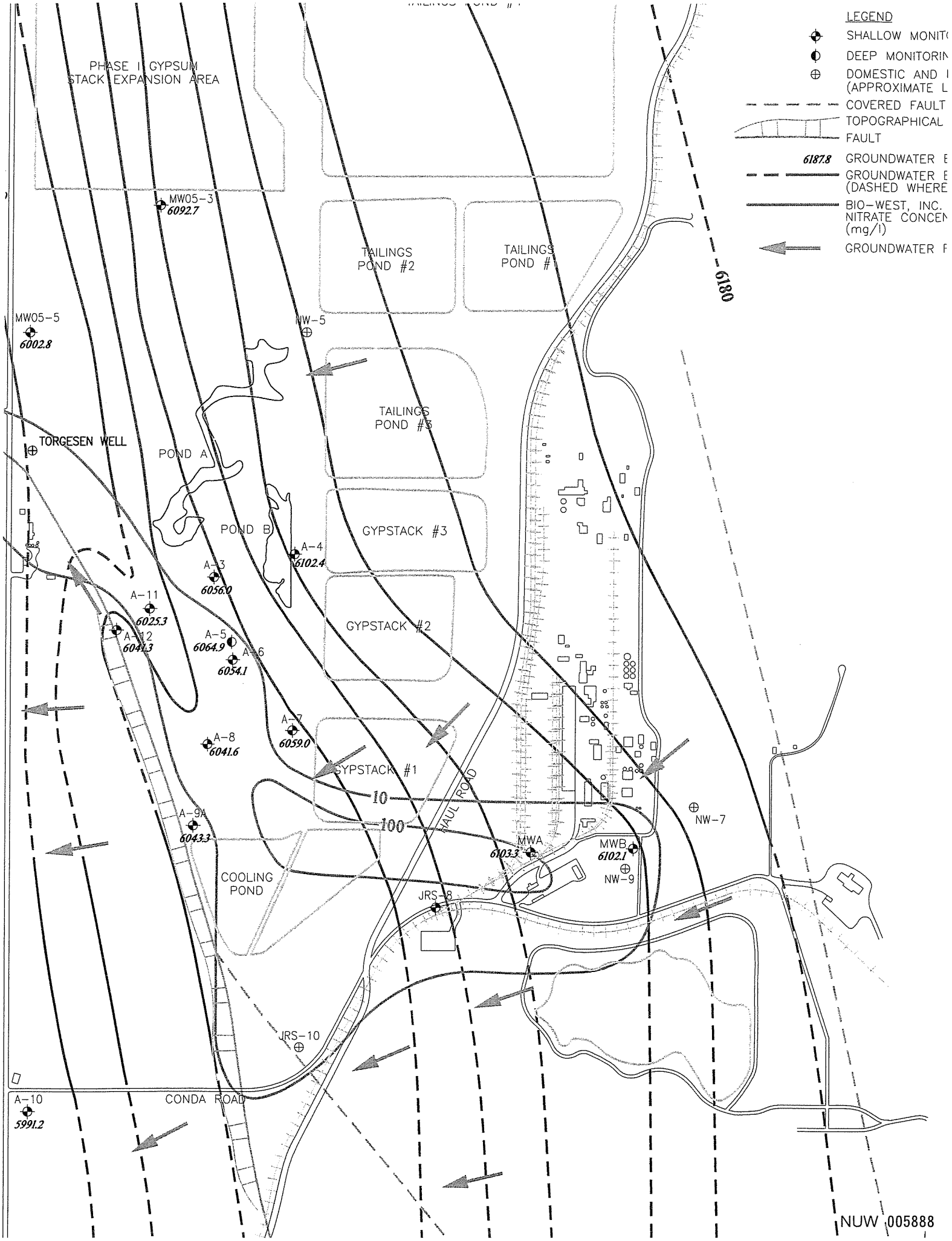
Appendix A – Groundwater Elevation Contour Maps

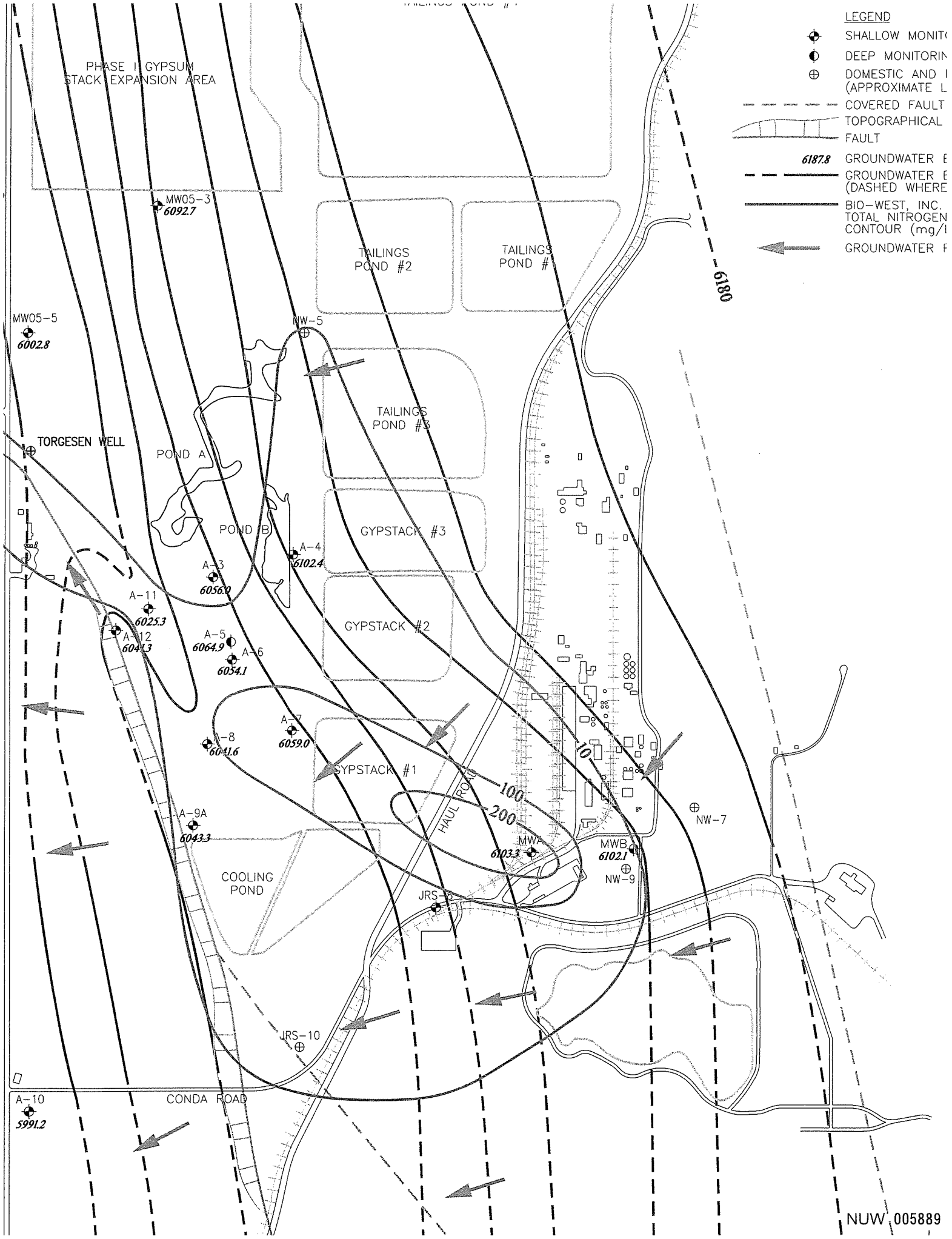

LEGEND
SHALLOW MONITC
DEEP MONITORIN
DOMESTIC AND F
(APPROXIMATE LC
COVERED FAULT
TOPOGRAPHICAL
FAULT
6187.8 GROUNDWATER E
GROUNDWATER E
(DASHED WHERE
PHASE I GYPSUM
STACK EXPANSION AREA
MW05-3
6072.0
TAILINGS
POND #2
TAILINGS
POND #1
MW05-5
5988.0
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
GYPSTACK #3
A-4
6080.8
A-3
<6042
A-11
<6007
A-12
6015.0
A-5
6046.0
A-6
6038.2
GYPSTACK #2
A-7
6038.5
A-8
6021.5
GYPSTACK #1
HAUL ROAD
A-9A
6018.3
COOLING
POND
MWA
6099.8
MWB
6100.3
NW-9
NW-7
JRS-8
JRS-10
A-10
5986.3
CONDA ROAD
6180
6140
6160


LEGEND
SHALLOW MONIT
DEEP MONITORIN
DOMESTIC AND I
(APPROXIMATE L
COVERED FAULT
TOPOGRAPHICAL
FAULT
6187.8 GROUNDWATER E
GROUNDWATER E
(DASHED WHERE
PHASE I GYPSUM
STACK EXPANSION AREA
MW05-3
6092.7
TAILINGS
POND #2
TAILINGS
POND #
6180
MW05-5
6002.8
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
GYPSTACK #3
A-4
6102.4
A-3
6056.0
A-11
6025.3
A-12
6041.3
A-5
6064.3
A-6
6054.1
GYPSTACK #2
A-7
6059.0
A-8
6041.6
GYPSTACK #1
HAUL ROAD
A-9A
6043.3
NW-7
MWA
6103.3
MWB
6102.1
NW-9
COOLING
POND
JRS-8
JRS-10
A-10
5991.2
CONDA ROAD

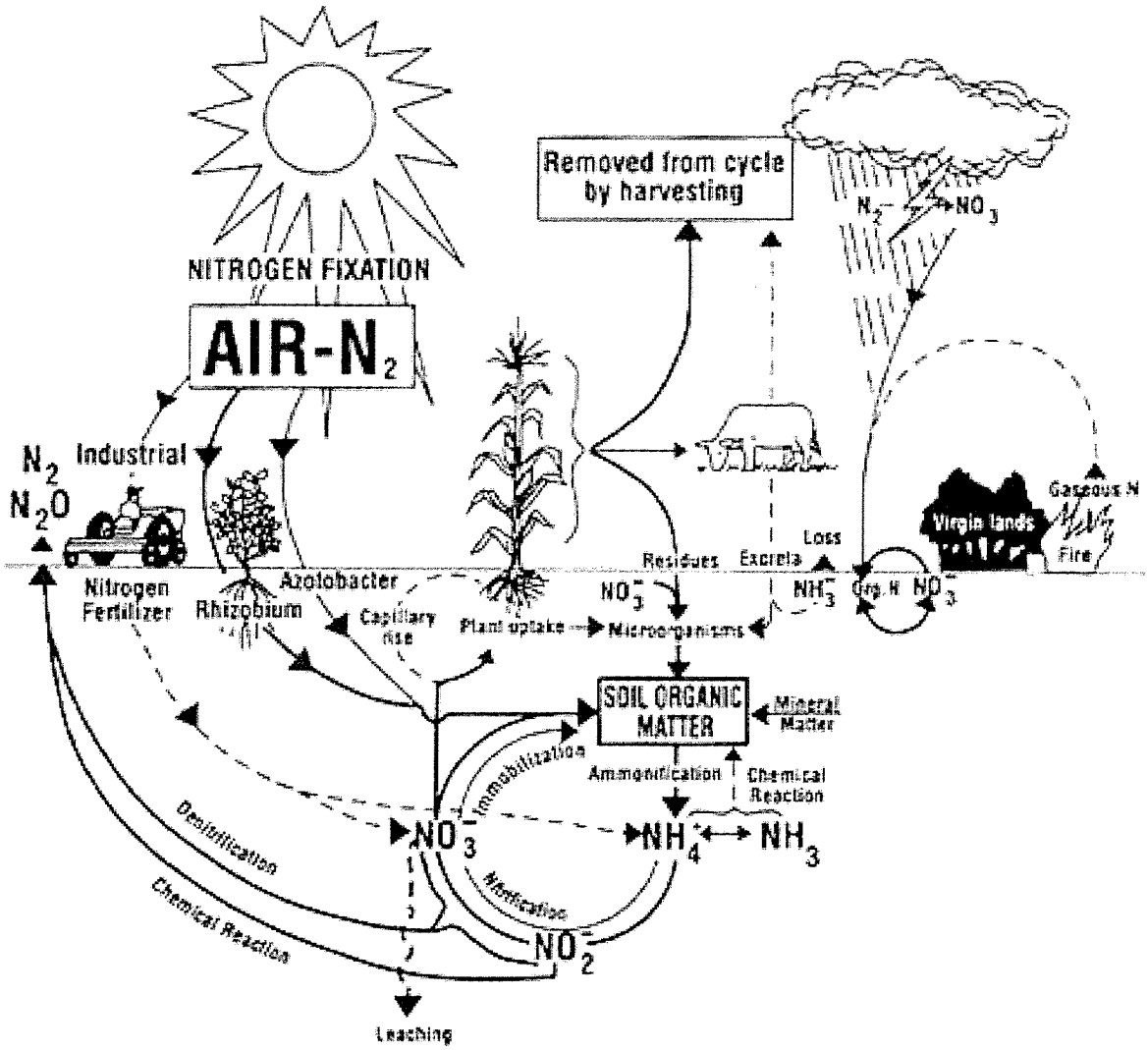

LEGEND
SHALLOW MONIT
DEEP MONITORIN
DOMESTIC AND I
(APPROXIMATE L
COVERED FAULT
TOPOGRAPHICAL
FAULT
6188.4 GROUNDWATER E
GROUNDWATER E
(DASHED WHERE
PHASE I GYPSUM
STACK EXPANSION AREA
MW05-3
6096.0
TAILINGS
POND #2
TAILINGS
POND #1
6180
MW05-5
5993.3
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
GYPSTACK #3
A-4
6104.6
A-3
6054.4
A-1
6008.2
GYPSTACK #2
A-12
6016.3
A-6
6046.4
A-7
6052.8
A-8
6026.6
GYPSTACK #1
HAUL ROAD
A-9A
6027.9
NW-7
MWA
6103.7
MWB
6101.3
NW-9
COOLING
POND
JRS-8
JRS-10
A-10
5986.6
CONDA ROAD

Appendix B – Groundwater Contours and Bio-West's Interpretation of Nitrate and Total Nitrogen Plume Contours


LEGEND
SHALLOW MONIT
DEEP MONITORIN
DOMESTIC AND I
(APPROXIMATE L
COVERED FAULT
TOPOGRAPHICAL
FAULT
6187.8 GROUNDWATER E
GROUNDWATER E
(DASHED WHERE
BIO-WEST, INC.
NITRATE CONCEN
(mg/l)
GROUNDWATER F
PHASE I GYPSUM
STACK EXPANSION AREA
MW05-3
6092.7
TAILINGS
POND #2
TAILINGS
POND #1
6180
MW05-5
6002.8
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
GYPSTACK #3
A-4
6102.4
A-3
6056.0
A-11
6025.3
A-12
6041.3
A-5
6064.9
A-6
6054.1
GYPSTACK #2
A-7
6059.0
A-8
6041.6
GYPSTACK #1
10
100
HAUL ROAD
A-9A
6043.3
MWA
6103.3
MWB
6102.1
NW-7
NW-9
COOLING
POND
JRS-8
JRS-10
A-10
5991.2
CONDA ROAD


LEGEND
SHALLOW MONIT
DEEP MONITORIN
DOMESTIC AND I
(APPROXIMATE L
COVERED FAULT
TOPOGRAPHICAL
FAULT
6187.8 GROUNDWATER E
GROUNDWATER E
(DASHED WHERE
BIO-WEST, INC.
TOTAL NITROGEN
CONTOUR (mg/l
GROUNDWATER F
PHASE I GYPSUM
STACK EXPANSION AREA
MW05-3
6092.7
TAILINGS
POND #2
TAILINGS
POND #1
6180
MW05-5
6002.8
NW-5
TAILINGS
POND #3
TORGESEN WELL
POND A
POND B
GYPSTACK #3
A-4
6102.4
A-3
6056.0
A-11
6025.3
A-12
6041.3
A-5
6064.9
A-6
6054.1
GYPSTACK #2
A-7
6059.0
A-8
6041.6
GYPSTACK #1
10
100
200
HAUL ROAD
A-9A
6043.3
NW-7
MWA
6103.3
MWB
6102.1
NW-9
COOLING
POND
JRS-9
JRS-10
A-10
5991.2
CONDA ROAD

Appendix C – Nitrogen Cycle



Nitrogen Cycle (Brown and Johnson, 1996)