

Appendix A - Field parameters

[µS/cm = microSiemens per centimeter, mg/L = milligrams per liter, all latitude and longitude measurements completed with WGS (world geographic system) 1984 datum]

Sample ID	Latitude	Longitude	Collection Date	Location Description	Specific Conductance (µS/cm)	pH	Temperature (degrees Celcius)	Dissolved Oxygen (mg/L)	Alkalinity as CaCO ₃ (mg/L)
0311_CC29	37.88308	-107.6697	11/13/2003	Red Spring	589	3.45	1.1	2.40	0.0
0312_CC29	37.88308	-107.6697	12/16/2003	Red Spring	610	4.10	0.7	2.52	0.0
0401_CC29	37.88308	-107.6697	01/22/2004	Red Spring	610	4.10	1.0	2.05	0.0
0405.1_CC29	37.88308	-107.6697	05/04/2004	Red Spring	258	3.40	5.0	5.83	0.0
0405.2_CC29	37.88308	-107.6697	05/27/2004	Red Spring	216	3.56	7.3	4.55	0.0
0406_CC29	37.88308	-107.6697	06/30/2004	Red Spring	526	3.40	9.4	2.15	0.0
0408.1_CC29	37.88308	-107.6697	08/04/2004	Red Spring	657	3.33	13.9	1.55	0.0
0408.2_CC29	37.88308	-107.6697	08/25/2004	Red Spring	645	3.40	12.8	0.63	0.0
0409_CC29	37.88308	-107.6697	09/28/2004	Red Spring	397	3.60	9.5	1.97	0.0
0410_CC29	37.88308	-107.6697	10/31/2004	Red Spring	622	3.90	0.0	2.50	0.0
0311_RENO1	37.87865	-107.6680	11/13/2003	Renoux Spring	753	3.84	2.8	0.84	0.0
0312_RENO1	37.87865	-107.6680	12/17/2003	Renoux Spring	845	4.40	3.0	0.36	0.0
0401_RENO1	37.87865	-107.6680	01/23/2004	Renoux Spring	849	4.50	11.9	0.81	0.0
0403_RENO1	37.87865	-107.6680	03/09/2004	Renoux Spring	855	4.60	5.2	0.60	0.0
0404_RENO1	37.87865	-107.6680	04/01/2004	Renoux Spring	868	4.75	3.9		0.0
0405.1_RENO1	37.87865	-107.6680	05/04/2004	Renoux Spring	868	4.70	6.2	0.45	0.0
0405.2_RENO1	37.87865	-107.6680	05/26/2004	Renoux Spring	878	4.10	5.1	0.77	0.0
0406_RENO1	37.87865	-107.6680	06/29/2004	Renoux Spring	917	3.56	10.2	0.75	0.0
0408.1_RENO1	37.87865	-107.6680	08/02/2004	Renoux Spring	930	3.47	10.0	0.79	0.0
0408.2_RENO1	37.87865	-107.6680	08/24/2004	Renoux Spring	937	3.50	7.9	0.46	0.0
0409_RENO1	37.87865	-107.6680	09/27/2004	Renoux Spring	914	3.60	6.6	0.72	0.0
0410_RENO1	37.87865	-107.6680	10/31/2004	Renoux Spring	880	3.90	3.9	0.47	0.0
0311_GT2	37.52683	-107.4017	11/14/2003	Tiger Iron Spring	1,865	3.72	12.4	0.48	0.0
0312_GT2	37.52683	-107.4017	12/17/2003	Tiger Iron Spring	1,856	4.10	11.1	1.19	0.0
0401_GT2	37.52683	-107.4017	01/23/2004	Tiger Iron Spring	1,880	4.00	11.9	1.34	0.0
0403_GT2	37.52683	-107.4017	03/09/2004	Tiger Iron Spring	1,920	3.73	10.0	0.71	0.0
0404_GT2	37.52683	-107.4017	04/01/2004	Tiger Iron Spring	1,750	3.90	12.0		0.0
0405.1_GT2	37.52683	-107.4017	05/04/2004	Tiger Iron Spring	1,620	4.10	14.7	0.36	0.0
0405.2_GT2	37.52683	-107.4017	05/26/2004	Tiger Iron Spring	1,750	4.04	16.4	0.62	0.0
0406_GT2	37.52683	-107.4017	06/29/2004	Tiger Iron Spring	1,760	4.00	15.3	1.82	0.0
0408.1_GT2	37.52683	-107.4017	08/02/2004	Tiger Iron Spring	1,824	3.54	16.5	1.96	0.0
0408.2_GT2	37.52683	-107.4017	08/24/2004	Tiger Iron Spring	1,891	3.80	15.7	0.25	0.0
0409_GT2	37.52683	-107.4017	09/27/2004	Tiger Iron Spring	1,645	3.80	15.2	1.40	0.0
0410_GT2	37.52683	-107.4017	10/31/2004	Tiger Iron Spring	1,833	3.80	12.4	1.35	0.0
0311_UB1	37.88039	-107.6689	11/13/2003	Upper Bog	777	3.48	3.6	3.10	0.0
0312_UB1	37.88039	-107.6689	12/16/2003	Upper Bog	869	3.40	6.7	3.30	0.0
0401_UB1	37.88039	-107.6689	01/22/2004	Upper Bog	1,341	3.90	8.0	1.24	0.0
0403_UB1	37.88039	-107.6689	03/09/2004	Upper Bog	1,470	3.30	11.8	4.69	0.0
0404_UB1	37.88039	-107.6689	04/01/2004	Upper Bog	1,462	3.45	10.6		0.0
0405.1_UB1	37.88039	-107.6689	05/04/2004	Upper Bog	1,189	3.60	9.4	1.53	0.0
0405.2_UB1	37.88039	-107.6689	05/26/2004	Upper Bog	1,360	3.68	14.4	0.49	0.0
0406_UB1	37.88039	-107.6689	06/29/2004	Upper Bog	1,380	3.65	12.6	0.93	0.0
0408.1_UB1	37.88039	-107.6689	08/02/2004	Upper Bog	1,376	3.40	12.2	1.01	0.0
0408.2_UB1	37.88039	-107.6689	08/24/2004	Upper Bog	1,383	3.70	12.7	1.17	0.0
0409_UB1	37.88039	-107.6689	09/27/2004	Upper Bog	1,391	3.60	11.2	0.90	0.0
0410_UB1	37.88039	-107.6689	10/31/2004	Upper Bog	1,340	3.50	7.2	1.07	0.0
0311_YSLB	37.87340	-107.6732	11/14/2003	Yager Spring	876	3.30	2.7	0.97	0.0
0312_YSLB	37.87340	-107.6732	12/17/2003	Yager Spring	853	4.10	0.2	2.10	0.0
0312_field blank	blank	blank	12/17/2003	Yager spring field blank					0.0
0405.2Field Blank	blank	blank	05/27/2004	Blank Red Chemotroph					0.0

Appendix A - Stable Isotopes

[mm of Hg = millimeters of mercury, μ S/cm = microSiemens per centimeter, mg/L = milligrams per liter]

Sample ID	Sample Location	Collection Date	Barometric		pH	Temperature	Dissolved	18-O (per mil)	2-H (per mil)
			Pressure (mm of Hg)	Conductivity (μ S/cm)		(degrees Celcius)	Oxygen (mg/L)		
0311_CC29	Red Spring	11/13/03	505	589	3.45	1.1	2.40	-16.4	-118
0312_CC29	Red Spring	12/16/03	502	610	4.10	0.7	2.52	-16.7	-120
0401_CC29	Red Spring	01/22/04	502	610	4.10	1.0	2.05	-16.6	-120
0405.1_CC29	Red Spring	5/4/2004	506	258	3.40	5.0	5.83	-16.1	-122
0405.2_CC29	Red Spring	5/27/2004	503	216	3.56	7.3	4.55	-16.6	-123
0311_RENO1	Renoux Spring	11/13/03	505	753	3.84	2.8	0.84	-16.1	-118
0312_RENO1	Renoux Spring	12/17/03	505	845	4.40	3.0	0.36	-16.1	-118
0401_RENO1	Renoux Spring	01/23/04	502	849	4.50	11.9	0.81	-16.1	-118
0403_RENO1	Renoux Spring	03/09/04	505	855	4.60	5.2	0.60	-16.1	-118
0404_RENO1	Renoux Spring	4/1/2004	509	868	4.75	3.9		-16.4	-117
0405.1_RENO1	Renoux Spring	5/4/2004	505	868	4.70	6.2	0.45	-16.6	-118
0311_GT2	Tiger Iron Spring	11/14/03	510	1,865	3.72	12.4	0.48	-16.2	-118
0312_GT2	Tiger Iron Spring	12/17/03	505	1,856	4.10	11.1	1.19	-16.2	-118
0401_GT2	Tiger Iron Spring	01/23/04	502	1,880	4.00	11.9	1.34	-16.2	-118
0403_GT2	Tiger Iron Spring	03/09/04	505	1,920	3.73	10.0	0.71	-16.1	-117
0404_GT2	Tiger Iron Spring	4/1/2004	509	1,750	3.90	12.0		-16.1	-117
0405.1_GT2	Tiger Iron Spring	5/4/2004	505	1,620	4.10	14.7	0.36	-16.4	-118
0405.2_GT2	Tiger Iron Spring	5/26/2004	509	1,750	4.04	16.4	0.62	-16.3	-117
0311_UB1	Upper Bog	11/13/03	505	777	3.48	3.6	3.10	-16.0	-115
0312_UB1	Upper Bog	12/16/03	502	869	3.40	6.7	3.30	-16.5	-119
0403_UB1	Upper Bog	03/09/04	505	1,470	3.30	11.8	4.69	-16.3	-118
0404_UB1	Upper Bog	4/1/2004	509	1,462	3.45	10.6		-16.4	-118
0405.1_UB1	Upper Bog	5/4/2004	505	1,189	3.60	9.4	1.53	-16.2	-119
0405.2_UB1	Upper Bog	5/26/2004	509	1,360	3.68	14.4	0.49	-16.5	-118
0311_YSLB	Yager Spring	11/14/03	505	876	3.30	2.7	0.97	-15.5	-113
0312_YSLB	Yager Spring	12/17/03	510	853	4.10	0.2	2.10	-15.8	-115

Appendix A - Elemental analyses by inductively coupled plasma-atomic emission spectrometry
 (ug/L = micrograms per liter, mg/L = milligrams per liter, < is less than detection limit)

Lab No.	Sample Description	Ag ug/L	Al mg/L	As ug/L	B ug/L	Ba ug/L	Be ug/L	Ca mg/L	Cd ug/L	Co ug/L	Cr ug/L	Cu ug/L	Fe mg/L	K mg/L	Li ug/L	Mg mg/L	Mn ug/L	Mo ug/L	Na mg/L	Ni ug/L	P mg/L	Pb ug/L	Sb ug/L	Si mg/L	Sr ug/L	Ti ug/L	V ug/L	Zn ug/L
C-233782	0311_CC29	<1	35	<100	<5	5.1	<10	32.3	34	31	<10	<10	10	3.8	11	7.8	724	<20	1.5	25	<0.1	<50	<50	21.1	353	<50	<10	1,260
C-233783	0312_CC29	<1	36.4	131	<5	4	<10	35.4	16	42	<10	<10	36.4	3.8	13	9	827	<20	1.1	33	0.29	<50	<50	25.1	414	<50	33	1,350
C-233784	0401_CC29	<1	36.2	<100	<5	3.9	<10	35.2	11	39	<10	<10	33.1	3.8	14	9	804	<20	1.1	30	0.17	<50	<50	24.9	412	<50	15	1,310
C-233797	0405.1_CC29	<1	4.2	<100	<5	1.7	<10	5	<5	<10	<10	<10	0.28	1	<1	1.1	61	<20	0.68	<10	<0.1	<50	<50	4.4	52	<50	<10	111
C-233805	0405.2_CC29	<1	4	<100	<5	1.5	<10	6.5	<5	10	<10	<10	0.13	0.73	2.1	1.6	96	<20	0.57	<10	<0.1	<50	<50	5.3	52	<50	<10	148
C-248642	0406_CC29	<1	20	<100	<5	4.4	<10	31.2	11	41	<10	<10	23.4	3.2	14	8.2	752	<20	0.68	27	<0.1	<50	<50	46.7	425	<50	<10	1,500
C-248646	0408.1_CC29	<1	13.8	<100	<5	3.8	<10	23.7	11	43	<10	<10	19.3	2.5	12	7.1	704	<20	0.91	27	<0.1	<50	<50	37.8	378	<50	<10	1,370
C-246092	0408.2_CC29	<1	25.6	<100	<5	4.5	<10	34.6	13	48	<10	<10	14.5	3.7	15	8.9	808	<20	1.2	28	<0.1	<50	<50	51.7	399	<50	<10	2,120
C-246093	0409_CC29	<1	19.4	<100	<5	3.4	<10	18.5	9.8	18	<10	<10	3.59	2.4	5.8	4.5	364	<20	0.93	13	<0.1	<50	<50	33.6	212	<50	<10	799
C-246094	0410_CC29	<1	26.1	<100	<5	4	<10	31.7	8.8	40	<10	<10	41.7	3.7	13	8.1	721	<20	1.2	30	<0.1	<50	<50	50.9	372	<50	<10	1,320
C-233785	0311_RENO1	<1	7.1	<100	<5	4.7	<10	147	<5	16	<10	<10	25.3	2	23	7.4	717	<20	5.1	<10	<0.1	<50	<50	21.9	564	<50	<10	130
C-233786	0312_RENO1	<1	6.8	<100	<5	4.2	<10	146	<5	16	<10	<10	31.3	2	23	7.4	721	<20	4.9	<10	0.14	<50	<50	22.1	548	<50	<10	126
C-233787	0401_RENO1	<1	6.5	<100	<5	4.2	<10	149	<5	19	<10	<10	32.6	1.9	22	7.4	726	<20	5	12	0.18	<50	<50	21.9	553	<50	<10	133
C-233793	0403_RENO1	<1	5.7	<100	<5	4	<10	149	<5	17	<10	<10	32.1	1.8	18	6.9	722	<20	4.4	<10	0.14	<50	<50	21.2	500	<50	<10	126
C-233795	0404_RENO1	<1	6.2	<100	<5	4.8	<10	148	<5	18	<10	<10	32	2	100	7.4	724	<20	5.2	<10	0.16	<50	<50	21.6	566	<50	<10	122
C-233798	0405.1_RENO1	<1	5.8	<100	<5	4.6	<10	147	<5	20	<10	<10	32.8	2	26	7.4	726	<20	5	<10	0.14	<50	<50	21.3	546	<50	<10	113
C-233801	0405.2_RENO1	<1	6.5	<100	<5	3.5	<10	160	<5	15	<10	<10	24.1	1.6	18	6.8	724	<20	4.4	11	<0.1	<50	<50	21.3	497	<50	<10	144
C-248639	0406_RENO1	<1	6.06	<100	<5	4.6	<10	128	<5	15	<10	<10	14.9	1.9	24	6.9	651	<20	4.6	<10	<0.1	<50	<50	43.5	609	<50	<10	182
C-248643	0408.1_RENO1	<1	5.7	<100	<5	4.5	<10	121	<5	16	<10	<10	15.6	1.9	23	6.7	673	<20	4.4	<10	<0.1	<50	<50	42.6	583	<50	<10	159
C-248689	0408.2_RENO1	<1	6.58	<100	<5	4.8	<10	149	<5	<10	<10	<10	16.9	2.2	25	7.2	618	<20	5.2	<10	<0.1	<50	<50	50.1	557	<50	<10	128
C-246090	0409_RENO1	<1	6.95	<100	<5	4.9	<10	142	<5	20	<10	<10	20.5	2	22	7.6	672	<20	4.4	11	<0.1	<50	<50	49.6	484	<50	<10	137
C-246091	0410_RENO1	<1	6.44	<100	<5	4.7	<10	143	<5	16	<10	<10	26.1	2.1	25	7.4	684	<20	5.3	<10	<0.1	<50	<50	48.6	593	<50	<10	124
C-233776	0311_GT2	<1	11.6	<100	5.1	5.8	<10	388	<5	38	<10	<10	73.2	3.3	21	17	3,060	<20	7	29	<0.1	<50	<50	26.3	2,180	<50	<10	1,240
C-233777	0312_GT2	<1	11.6	<100	6.6	6.1	<10	401	<5	46	<10	<10	73.8	3.3	21	17.9	3,060	<20	7.5	32	<0.1	<50	<50	26.1	2,330	<50	<10	1,280
C-233778	0401_GT2	<1	11.9	<100	6.1	5.9	<10	381	<5	48	<10	<10	72.4	3.3	22	17.3	3,030	<20	7.2	31	<0.1	<50	<50	25.9	2,230	<50	<10	1,280
C-233792	0403_GT2	<1	10.6	<100	<5	5.4	<10	392	<5	40	<10	<10	71	3	17	15.5	3,100	<20	6	28	<0.1	<50	<50	25.5	1,940	<50	<10	1,160
C-233796	0404_GT2	<1	9	<100	<5	4.4	<10	367	<5	44	<10	<10	64.6	2.7	14	14.1	2,760	<20	5.5	29	<0.1	<50	<50	24.2	1,740	<50	<10	1,190
C-233800	0405.1_GT2	<1	8.5	<100	<5	5	<10	332	<5	40	<10	<10	59.3	2.5	14	13.2	2,550	<20	5.1	26	<0.1	<50	<50	22.4	1,580	<50	<10	1,080
C-233803	0405.2_GT2	<1	9.4	<100	<5	4.4	<10	369	<5	40	<10	<10	66	2.7	14	14.5	2,810	<20	5.6	34	<0.1	<50	<50	24.2	1,770	<50	<10	1,280
C-248640	0406_GT2	<1	9.44	<100	<5	5.5	<10	322	<5	45	<10	<10	70.5	3	20	15.2	2,790	<20	6	22	<0.1	<50	<50	51	2,140	<50	<10	1,430
C-248644	0408.1_GT2	<1	9.2	<100	<5	5.9	<10	312	<5	43	<10	<10	65.7	3.2	20	15.2	2,920	<20	5.8	26	<0.1	<50	<50	53.2	2,050	<50	<10	1,430
C-248647	0408.2_GT2	<1	9.2	<100	<5	5.4	<10	319	<5	43	<10	<10	71.1	2.9	20	15.1	2,880	<20	5.9	25	<0.1	<50	<50	51.1	2,120	<50	<10	1,390
C-246087	0409_GT2	<1	8.17	<100	<5	5.3	<10	311	<5	37	<10	<10	56.5	2.9	18	12.8	2,390	<20	5.7	22	<0.1	<50	<50	51.1	1,640	<50	<10	1,050
C-246088	0410_GT2	<1	9.9	<100	<5	5.4	<10	401	<5	40	<10	<10	67.5	3	19	16.3	2,950	<20	6.1	26	<0.1	<50	<50	58.8	2,030	<50	<10	1,360
C-233779	0311_UB1	<1	12	<100	8.6	14	<10	88.9	<5	35	<10	<10	42.3	3.1	26	11.4	1,700	<20	2.4	20	<0.1	<50	<50	18	712	<50	<10	969
C-233780	0312_UB1	<1	16.5	<100	5.7	20	<10	82	<5	53	<10	<10	34.3	3.8	25	11.5	1,960	<20	2.4	31	<0.1	<50	<50	19.8	665	<50	<10	1,250
C-233781	0401_UB1	<1	21.8	<100	7.3	6.3	<10	214	<5	53	<10	<10	72.2	3.7	20	14	2,080	<20	3.1	39	<0.1	<50	<50	25.1	1,590	<50	<10	1,580
C-233791	0403_UB1	<1	20.9	<100	<5	5.4	<10	226	<5	49	<10	<10	57.6	3.3	18	13.6	2,060	<20	2.9	39	<0.1	<50	<50	24.6	1,580	<50	<10	1,650
C-233794	0404_UB1	<1	21.6	<100	5	5.3	<10	231	<5	46	<10	<10	65	3.4	19	14.2	2,110	<20	3	34	<0.1	<50	<50	25	1,640	<50	<10	1,580
C-233799	0405.1_UB1	<1	18.5	<100	<5	5.6	<10	178	<5	35	<10	<10	49.8	2.7	16	11.4	1,800	<20	2.4	28	<0.1	<50	<50	21.8	1,110	<50	<10	1,550
C-233804	0405.2_UB1	<1	18.3	<100	<5	5.1	<10	228	<5	52	<10	<10	67.8	2.9	14	12.6	2,040	<20	2.5	42	<0.1	<50	<50	24.1	1,310	<50	<10	1,740
C-248641	0406_UB1	<1	17.8	<100	<5	6.5	<10	189	<5	53	<10	<10	72.3	3.4	20	12.7	2,040	<20	2.7	32	<0.1	<50	<50	50.1	1,630	<50	<10	1,670
C-248645	0408.1_UB1	<1	17.7	<100	<5	7	<10	186	<5	50	<10	<10	71	3.4	21	13.4	2,070	<20	2.7	34	<0.1	<50	<50	51.4	1,630	<50	<10	1,690
C-246084	0408.2_UB1	<1	18.4	<100	6	5.6	<10	222	<5	50	<10	<10	69.2	3.2	16	12.4	1,980	<20	2.6	30	<0.1	<50	<50	54.4	1,450	<50	<10	1,740
C-246085	0409_UB1	<1	18.9	<100	5.4	6.1	<10	207	<5	40	<10	<10	64.9	3.4	19	12.4	1,990	<20	2.9	33	<0.1	<50	<50	54	1,460	<50	<10	1,620
C-246086	0410_UB1	<1	18.5	<100	6.4	5.8	<10	199	<5	47	<10	<10	63.2	3.3	20	12.9	1,940	<20	2.8	28	<0.1	<50	<50	52.8	1,380	<50	<10	1,590
C-233788	0311_YSLB	<1	11	<100	<5																							

Appendix A - Elemental analyses by inductively coupled plasma-mass spectrometry

[ug/L = micrograms per liter, mg/L = milligrams per liter, < is less than detection limit]

Lab No.	Sample Description	Ag ug/L	Al ug/L	As ug/L	Ba ug/L	Be ug/L	Bi ug/L	Ca mg/L	Cd ug/L	Ce ug/L	Co ug/L	Cr ug/L	Cs ug/L	Cu ug/L	Dy ug/L	Er ug/L	Eu ug/L	Fe ug/L	Ga ug/L	Gd ug/L
C-233782	0311_CC29	<3	31,400	14.8	5.42	1	<0.2	31.9	32.4	1.26	36.3	<1	1.48	2.4	1.14	0.65	0.2	9,650	<0.05	1.2
C-233783	0312_CC29	<3	30,900	26.8	4.43	1.1	<0.2	34.4	13.9	1.4	41.9	<1	1.6	1.9	1.2	0.65	0.22	35,500	<0.05	1.28
C-233784	0401_CC29	<3	31,000	31.9	4.12	1	<0.2	34.1	7.7	1.38	41.5	<1	1.55	1.8	1.2	0.67	0.22	32,400	0.05	1.25
C-233797	0405_1_CC29	<3	3,620	<1	1.66	0.2	<0.2	5.16	0.54	0.32	3.63	<1	0.52	4.3	0.28	0.16	0.05	252	<0.05	0.28
C-233805	0405_2_CC29	<3	3,860	<1	2.14	0.3	<0.2	6.36	0.52	0.26	4.84	<1	0.57	0.71	0.25	0.15	0.04	110	<0.05	0.23
C-248642	0406_CC29	<3	14,500	<1	4.89	1.1	<0.2	24.6	9.53	1.41	29.8	<1	1.5	0.99	1.19	0.62	0.21	16,500	<0.05	1.25
C-248646	0408_1_CC29	<3	9,390	1	3.95	0.8	<0.2	19.2	9.18	0.98	23.8	<1	1.01	1.3	0.83	0.46	0.14	11,300	<0.05	0.85
C-246092	0408_2_CC29	<3	21,200	<1	4.52	1.1	<0.2	33.4	11.7	1.75	42.7	<1	1.37	3.2	1.29	0.72	0.26	19,300	<0.05	1.5
C-246093	0409_CC29	<3	15,100	<1	3.1	0.9	<0.2	17.4	8.23	1.06	17.5	<1	0.74	2.3	0.82	0.48	0.16	3,300	<0.05	0.9
C-246094	0410_CC29	<3	21,900	2	4.18	1	<0.2	32.8	6.76	1.5	40.3	<1	1.06	2.4	1.18	0.64	0.23	56,400	0.05	1.33
C-233785	0311_RENO1	<3	5,800	3.9	4.9	0.8	<0.2	134	0.14	1.13	13.4	<1	3.68	2.3	1.12	0.84	0.22	24,200	<0.05	1.39
C-233786	0312_RENO1	<3	5,490	5.3	4.57	0.8	<0.2	135	0.13	1.11	13.5	<1	3.69	0.71	1.1	0.62	0.21	30,100	<0.05	1.31
C-233787	0401_RENO1	<3	5,250	6.7	4.55	0.7	<0.2	134	0.12	1.09	13.3	<1	3.71	0.86	1.1	0.62	0.22	31,400	<0.05	1.34
C-233793	0403_RENO1	<3	5,100	7.6	4.71	0.7	<0.2	140	0.11	1.1	13.1	<1	3.59	1.3	1.11	0.62	0.21	31,700	<0.05	1.33
C-233795	0404_RENO1	<3	5,130	7.3	4.75	0.7	<0.2	143	0.12	1.09	13.4	<1	3.58	0.67	1.1	0.6	0.22	31,200	<0.05	1.37
C-233798	0405_1_RENO1	<3	4,760	8	4.68	0.7	<0.2	142	0.1	1.09	12.9	<1	3.47	0.72	1.07	0.6	0.21	31,600	<0.05	1.32
C-233801	0405_2_RENO1	<3	6,120	5.4	4.54	0.9	<0.2	144	0.18	1.2	13.7	<1	3.52	0.87	1.27	0.69	0.24	23,800	<0.05	1.5
C-248639	0406_RENO1	<3	3,250	2	4.81	1.2	<0.2	82.1	0.21	1.02	9	<1	3.33	0.92	1.14	0.6	0.2	9,340	<0.05	1.37
C-248643	0408_1_RENO1	<3	4,230	2	5.32	1.1	<0.2	98.2	0.21	1.22	9.46	<1	3.76	1.1	1.21	0.68	0.22	10,700	<0.05	1.52
C-246089	0408_2_RENO1	<3	5,310	2	4.76	0.9	<0.2	150	0.15	1.28	13.9	<1	3.12	3.1	1.24	0.69	0.25	23,400	<0.05	1.52
C-246090	0409_RENO1	<3	5,450	3.1	4.59	1	<0.2	146	0.17	1.32	14.4	<1	3.04	3	1.19	0.65	0.26	28,500	<0.05	1.54
C-246091	0410_RENO1	<3	5,370	4.4	4.45	0.9	<0.2	144	0.14	1.25	13.8	<1	2.85	2.7	1.23	0.67	0.25	34,300	<0.05	1.55
C-233776	0311_GT2	<3	8,770	<1	6.21	1.4	<0.2	337	0.49	2.88	35.4	<1	2.44	3.3	5.74	2.9	1.12	65,100	0.08	6.04
C-233777	0312_GT2	<3	8,970	<1	5.95	1.5	<0.2	352	0.5	2.83	36.5	<1	2.4	2.3	5.73	2.93	1.12	68,200	0.08	6.1
C-233778	0401_GT2	<3	9,020	<1	6.04	1.5	<0.2	361	0.46	2.84	37.3	<1	2.38	3	5.78	2.99	1.1	68,400	0.07	6.07
C-233792	0403_GT2	<3	9,120	<1	5.56	1.2	<0.2	384	0.42	2.85	36.8	<1	2.16	2.3	5.76	2.99	1.1	70,000	0.08	6.02
C-233796	0404_GT2	<3	8,070	<1	4.86	1.2	<0.2	344	0.39	2.32	32.9	<1	2.08	5.1	4.75	2.49	0.9	63,700	0.07	4.99
C-233800	0405_1_GT2	<3	7,420	<1	5.86	1.1	<0.2	315	0.37	2.2	30.1	<1	1.9	2.3	4.5	2.3	0.87	58,400	0.07	4.61
C-233803	0405_2_GT2	<3	8,180	<1	5.12	1.3	<0.2	345	0.4	2.46	33.2	<1	2.06	2.2	5.05	2.6	0.96	65,200	0.08	5.33
C-248640	0406_GT2	<3	6,040	<1	5.73	1.3	<0.2	253	0.41	2.61	22.8	<1	2.04	2	5.26	2.69	0.97	43,400	0.06	5.52
C-248644	0408_1_GT2	<3	5,920	<1	6.22	1.5	<0.2	241	0.7	2.63	22.8	<1	2.18	2.2	5.36	2.73	0.99	37,600	0.06	5.62
C-248647	0408_2_GT2	<3	6,480	<1	6.4	1.4	<0.2	255	0.45	2.86	23.8	<1	2.27	2.7	5.92	2.99	1.06	42,000	0.06	6.14
C-246087	0409_GT2	<3	6,890	<1	5.55	1.3	<0.2	431	0.38	2.51	32.8	<1	1.72	6	4.87	2.43	0.93	81,100	0.09	4.96
C-246088	0410_GT2	<3	8,000	<1	5.36	1.3	<0.2	471	0.41	2.96	34.8	<1	1.71	6.3	5.73	2.89	1.1	92,100	0.09	5.9
C-233779	0311_UB1	<3	9,800	<1	15.4	0.6	<0.2	85.2	1.86	2.48	31.5	<1	0.82	13	1.58	0.82	0.34	39,900	0.05	1.8
C-233780	0312_UB1	<3	13,400	<1	20.3	0.6	<0.2	79.6	1.61	5.23	53.2	<1	0.5	6.8	1.62	0.83	0.36	32,100	0.07	1.87
C-233781	0401_UB1	<3	16,800	<1	6.04	1.4	<0.2	203	1.24	4.03	43	<1	1.8	1.6	4.29	2.15	0.93	69,800	0.07	4.68
C-233791	0403_UB1	<3	17,100	<1	5.84	1.4	<0.2	216	1.52	4	42.9	<1	1.93	2.1	4.51	2.25	0.97	56,900	0.07	4.87
C-233794	0404_UB1	<3	17,500	<1	5.54	1.3	<0.2	220	1.63	4.12	43.7	<1	1.83	3	4.72	2.38	0.96	64,200	0.08	5.02
C-233799	0405_1_UB1	<3	16,700	<1	6.36	1.3	<0.2	168	1.51	3.45	37.3	<1	1.47	1.3	3.62	1.89	0.75	49,600	0.07	3.93
C-233804	0405_2_UB1	<3	16,800	<1	6.66	1.3	<0.2	208	1.32	4.01	42.9	<1	1.7	1.6	4.17	2.09	0.88	67,800	0.07	4.64
C-248641	0406_UB1	<3	11,600	<1	7	1.6	<0.2	144	1.22	4.07	31	<1	1.65	2	4.34	2.15	0.9	46,100	0.06	4.8
C-248645	0408_1_UB1	<3	10,500	<1	7.12	1.5	<0.2	133	1.25	3.84	29.8	<1	1.55	1.5	4.06	2.04	0.82	42,900	0.06	4.51
C-246084	0408_2_UB1	<3	16,200	<1	6.09	1.3	<0.2	218	1.37	4.53	46.5	<1	1.44	4.6	4.44	2.15	0.99	99,800	0.09	5
C-246085	0409_UB1	<3	16,000	<1	5.98	1.4	<0.2	210	1.34	4.49	44.8	<1	1.35	4.2	4.47	2.24	0.99	92,400	0.09	5.07
C-246086	0410_UB1	<3	15,000	<1	5.87	1.4	<0.2	204	1.18	4.36	43.7	<1	1.22	4.2	4.39	2.13	0.93	85,800	0.09	4.72
C-233788	0311_YSLB	<3	8,960	<1	6.74	0.9	<0.2	124	1.07	1.67	23.6	<1	2.14	7.1	1.34	0.64	0.34	22,400	<0.05	1.72
C-233789	0312_YSLB	<3	8,080	1	8.01	0.8	<0.2	126	1.3	4.14	24.8	<1	1.07	11.6	1.24	0.58	0.31	28,700	<0.05	1.62
C-233790	0312_field blank	<3	<2	<1	<0.2	<0.05	<0.2	<0.02	<0.01	<0.02	<0.02	<1	<0.02	<0.5	<0.005	<0.005	<0.005	<50	<0.05	<0.005
C-233802	0405.2Field Blank	<3	<2	<1	<0.2	<0.05	<0.2	<0.02	<0.01	<0.02	<0.02	<1	<0.02	<0.5	<0.005	<0.005	<0.005	<50	<0.05	<0.005

Appendix A - Elemental analyses by inductively coupled plasma-mass spectrometry
 [ug/L = micrograms per liter, mg/L = milligrams per liter, < is less than detection limit]

Lab No.	Sample Description	Ge ug/L	Ho ug/L	K mg/L	La ug/L	Li ug/L	Lu ug/L	Mg mg/L	Mn ug/L	Mo ug/L	Na mg/L	Nb ug/L	Nd ug/L	Ni ug/L	P mg/L	Pb ug/L	Pr ug/L	Rb ug/L	Sb ug/L	Sc ug/L	Se ug/L
C-233782	0311_CC29	< 0.05	0.24	3.97	0.42	12.7	< 0.1	7.79	712	< 2	1.67	< 0.2	1.9	28.4	0.04	0.2	0.27	12.9	< 0.3	3.4	1.6
C-233783	0312_CC29	< 0.05	0.25	3.83	0.46	13.8	< 0.1	8.73	809	< 2	1.18	< 0.2	2.2	32.2	0.3	0.4	0.3	14	< 0.3	4.1	< 1
C-233784	0401_CC29	< 0.05	0.25	3.76	0.45	13.8	< 0.1	8.64	796	< 2	1.16	< 0.2	2.13	32.7	0.2	0.1	0.31	13.8	< 0.3	4	< 1
C-233797	0405_1_CC29	< 0.05	0.061	1.04	0.11	1	< 0.1	1.06	61	< 2	0.69	< 0.2	0.45	3.7	< 0.01	4.5	0.07	3	< 0.3	0.8	< 1
C-233805	0405_2_CC29	< 0.05	0.055	0.91	0.1	2.5	< 0.1	1.64	100	< 2	0.65	< 0.2	0.38	3.6	0.06	0.1	0.06	3.06	< 0.3	1	< 1
C-248642	0406_CC29	< 0.05	0.23	2.3	0.47	13.2	< 0.1	5.72	694	< 2	0.82	< 0.2	2.1	25.1	< 0.01	0.4	0.28	11	< 0.3	3	< 1
C-248646	0408_1_CC29	< 0.05	0.16	1.68	0.32	11.1	< 0.1	4.56	551	< 2	0.69	< 0.2	1.45	20.6	< 0.01	0.3	0.19	7.74	< 0.3	2.3	< 1
C-246092	0408_2_CC29	< 0.05	0.28	3.53	0.6	14.3	< 0.1	6.1	1,080	< 2	0.98	< 0.2	2.44	31.3	0.01	0.3	0.36	10.4	< 0.3	6.6	< 1
C-246093	0409_CC29	< 0.05	0.16	2.37	0.35	5.4	< 0.1	2.96	451	< 2	0.6	< 0.2	1.43	13.8	0.01	0.2	0.21	5.9	< 0.3	4.4	< 1
C-246094	0410_CC29	< 0.05	0.24	3.84	0.5	14.2	< 0.1	5.8	1,010	< 2	1.08	< 0.2	2.12	29.6	< 0.01	0.4	0.3	9.82	< 0.3	6.8	< 1
C-233785	0311_RENO1	< 0.05	0.24	1.91	0.35	22.2	< 0.1	6.76	700	< 2	4.78	< 0.2	2	10.9	0.02	0.1	0.26	13	< 0.3	3.7	< 1
C-233786	0312_RENO1	< 0.05	0.23	1.93	0.35	22.5	< 0.1	6.88	703	< 2	4.83	< 0.2	1.91	10.8	0.1	0.05	0.26	12.9	< 0.3	3.7	< 1
C-233787	0401_RENO1	< 0.05	0.23	1.93	0.36	22.6	< 0.1	6.86	704	< 2	4.84	< 0.2	1.88	10.8	0.1	< 0.05	0.24	13.2	< 0.3	3.6	< 1
C-233793	0403_RENO1	< 0.05	0.23	1.93	0.35	22.4	< 0.1	6.89	709	< 2	4.85	< 0.2	1.87	10.8	0.1	4.5	0.24	13.1	< 0.3	3.6	< 1
C-233795	0404_RENO1	0.05	0.23	1.96	0.36	97.1	< 0.1	6.93	710	< 2	4.9	< 0.2	1.88	11.2	0.1	0.06	0.24	13.1	< 0.3	3.7	< 1
C-233798	0405_1_RENO1	< 0.05	0.22	1.95	0.35	26	< 0.1	6.86	705	< 2	4.87	< 0.2	1.85	10.6	0.1	0.09	0.25	13	< 0.3	3.6	< 1
C-233801	0405_2_RENO1	< 0.05	0.25	1.96	0.37	23.8	< 0.1	6.93	715	< 2	4.92	< 0.2	2.06	11.6	0.01	0.2	0.28	12.5	< 0.3	3.6	< 1
C-248639	0406_RENO1	< 0.05	0.23	0.99	0.3	18.8	< 0.1	3.18	530	< 2	2.33	< 0.2	1.89	7	< 0.01	0.2	0.22	10.9	< 0.3	2.2	< 1
C-248643	0408_1_RENO1	< 0.05	0.24	1.31	0.37	21.5	< 0.1	4.64	592	< 2	3.52	< 0.2	2.22	7.2	< 0.01	0.3	0.27	11.9	< 0.3	2.4	< 1
C-246089	0408_2_RENO1	0.05	0.25	2.24	0.41	22.8	< 0.1	5	969	< 2	4.5	< 0.2	2.14	< 0.4	0.01	0.1	0.3	11.3	< 0.3	7.4	< 1
C-246090	0409_RENO1	0.05	0.26	2.15	0.4	24.2	< 0.1	5.12	970	< 2	4.58	< 0.2	2.24	< 0.4	0.01	0.08	0.31	10.9	< 0.3	7.3	< 1
C-246091	0410_RENO1	< 0.05	0.26	2.14	0.4	23.7	< 0.1	5.02	920	< 2	4.52	< 0.2	2.13	< 0.4	0.02	0.08	0.29	10.7	< 0.3	7.2	< 1
C-233776	0311_GT2	0.08	1.14	2.85	0.94	21.2	0.2	14.4	2,840	< 2	5.97	< 0.2	5.5	35.6	< 0.01	5.8	0.65	12.7	< 0.3	4.7	< 1
C-233777	0312_GT2	0.08	1.15	2.93	0.94	20.9	0.2	14.8	2,960	< 2	6.17	< 0.2	5.48	36.3	< 0.01	5.3	0.65	12.8	< 0.3	4.6	< 1
C-233778	0401_GT2	0.09	1.17	3	0.92	21.2	0.2	15	3,020	< 2	6.23	< 0.2	5.45	36.6	< 0.01	5.4	0.65	12.7	< 0.3	4.5	< 1
C-233792	0403_GT2	0.09	1.13	3.1	0.91	20.4	0.2	15	3,020	< 2	6.39	< 0.2	5.45	37.5	< 0.01	5.1	0.65	11.9	< 0.3	4.2	< 1
C-233796	0404_GT2	0.07	0.96	2.95	0.76	18.9	0.2	13.5	2,700	< 2	5.97	< 0.2	4.49	33.7	< 0.01	10	0.53	11.1	< 0.3	3.9	< 1
C-233800	0405_1_GT2	0.08	0.89	2.7	0.71	17	0.2	12.4	2,480	< 2	5.43	< 0.2	4.24	31.1	< 0.01	5.5	0.5	10	< 0.3	3.7	< 1
C-233803	0405_2_GT2	0.09	0.99	2.9	0.79	18.9	0.2	13.5	2,710	< 2	5.88	< 0.2	4.75	35	< 0.01	5	0.57	10.9	< 0.3	4	< 1
C-248640	0406_GT2	0.08	1.02	1.91	0.81	17	0.2	9.39	2,360	< 2	4.21	< 0.2	5.23	22.6	< 0.01	3.9	0.58	9.7	< 0.3	2.9	< 1
C-248644	0408_1_GT2	0.08	1.05	1.97	0.8	17.2	0.2	9.42	2,240	< 2	4.34	< 0.2	5.16	22.6	< 0.01	4	0.59	10.1	< 0.3	2.5	< 1
C-248647	0408_2_GT2	0.08	1.15	1.94	0.88	17.8	0.2	10.3	2,330	< 2	4.68	< 0.2	5.79	22.5	0.01	4.4	0.64	10.5	< 0.3	2.5	< 1
C-246087	0409_GT2	0.1	0.95	3.1	0.79	18.8	0.2	12.4	3,410	< 2	5.2	< 0.2	4.71	< 0.4	< 0.01	4.4	0.56	9.16	< 0.3	7.9	< 1
C-246088	0410_GT2	0.1	1.1	3.16	0.93	19.1	0.2	13.9	3,840	< 2	5.73	< 0.2	5.48	< 0.4	< 0.01	4.4	0.67	9.28	< 0.3	7.8	< 1
C-233779	0311_UB1	< 0.05	0.31	2.97	1.1	26.6	< 0.1	10.5	1,710	< 2	2.28	< 0.2	2.87	22.2	< 0.01	5.3	0.48	8.87	< 0.3	3.3	< 1
C-233780	0312_UB1	< 0.05	0.33	3.58	2.72	24.8	< 0.1	10.9	1,860	< 2	2.39	< 0.2	4.13	31.2	< 0.01	3.3	0.84	9.09	< 0.3	3.7	< 1
C-233781	0401_UB1	0.08	0.84	3.38	1.4	18.9	0.2	12.2	2,010	< 2	2.8	< 0.2	6.12	39.3	< 0.01	1.3	0.85	11.8	< 0.3	4.1	< 1
C-233791	0403_UB1	0.08	0.87	3.36	1.38	18.4	0.2	12.2	2,020	< 2	2.8	< 0.2	6.09	39	< 0.01	1.3	0.85	11.7	< 0.3	3.9	< 1
C-233794	0404_UB1	0.07	0.91	3.37	1.42	18.8	0.2	12.3	2,070	< 2	2.86	< 0.2	6.27	40.1	< 0.01	4.6	0.87	11.5	< 0.3	3.9	< 1
C-233799	0405_1_UB1	0.05	0.72	3.05	1.19	18.7	0.2	10.9	1,770	< 2	2.53	< 0.2	5.02	33.4	< 0.01	1.3	0.7	10.1	< 0.3	3.7	< 1
C-233804	0405_2_UB1	0.09	0.83	3.28	1.38	18.5	0.2	12	2,000	< 2	2.77	< 0.2	6.06	39	< 0.01	1.4	0.84	11.6	< 0.3	3.9	< 1
C-248641	0406_UB1	0.08	0.82	2.19	1.36	17.5	0.2	7.87	1,770	< 2	1.92	< 0.2	6.18	29.2	< 0.01	1.3	0.82	10.3	< 0.3	2.8	< 1
C-248645	0408_1_UB1	0.08	0.77	2.07	1.26	17.5	0.2	7.39	1,690	< 2	1.83	< 0.2	5.83	28	< 0.01	1.5	0.78	10.1	< 0.3	2.7	< 1
C-246084	0408_2_UB1	0.09	0.87	3.64	1.55	18.6	0.2	12.1	2,790	< 2	2.67	< 0.2	6.57	20.8	< 0.01	1.2	0.94	9.91	< 0.3	7.9	< 1
C-246085	0409_UB1	0.09	0.88	3.58	1.53	18.3	0.2	11.8	2,710	< 2	2.67	< 0.2	6.61	21.5	< 0.01	1.3	0.94	9.47	< 0.3	7.5	< 1
C-246086	0410_UB1	0.08	0.82	3.56	1.48	19.7	0.2	11	2,640	< 2	2.46	< 0.2	6.31	20.8	< 0.01	1.1	0.89	9.04	< 0.3	7.6	< 1
C-233788	0311_YSLB	0.05	0.24	1.66	0.53	22.4	< 0.1	7.9	904	< 2	4.43	< 0.2	2.79	16.3	< 0.01	13.2	0.37	11.3	< 0.3	3.7	< 1
C-233789	0312_YSLB	0.05	0.24	1.6	0.56	21.7	< 0.1	7.98	971	< 2	4.48	< 0.2	3.41	16.5	< 0.01	20.9	0.6	11.2	< 0.3	3.7	< 1
C-233790	0312_field blank	< 0.05	< 0.005	< 0.03	< 0.01	0.2	< 0.1	0.01	< 0.2	< 2	0.04	< 0.2	< 0.01	< 0.4	< 0.01	< 0.05	< 0.01	0.01	< 0.3	< 0.6	< 1
C-233802	0405.2Field Blank	< 0.05	< 0.005	< 0.03	< 0.01	0.1	< 0.1	< 0.01	< 0.2	< 2	< 0.01	< 0.2	< 0.01	< 0.4	< 0.01	< 0.05	< 0.01	< 0.01	< 0.3	< 0.6	< 1

Appendix A - Elemental analyses by inductively coupled plasma-mass spectrometry
 (ug/L = micrograms per liter, mg/L = milligrams per liter, < is less than detection limit)

Lab No.	Sample Description	SiO ₂ mg/L	Sm ug/L	SO ₄ mg/L	Sr ug/L	Ta ug/L	Tb ug/L	Th ug/L	Ti ug/L	Tl ug/L	Tm ug/L	U ug/L	V ug/L	W ug/L	Y ug/L	Yb ug/L	Zn ug/L	Zr ug/L
C-233782	0311_CC29	39.8	0.64	277	367	0.04	0.18	<0.2	3.1	1.5	0.08	<0.1	3.1	<0.5	7.16	0.48	1,370	<0.2
C-233783	0312_CC29	46.1	0.67	316	421	0.03	0.2	<0.2	3.6	1.6	0.084	0.11	34.7	<0.5	7.75	0.52	1,270	<0.2
C-233784	0401_CC29	45.8	0.7	310	415	0.03	0.2	<0.2	3.2	1.4	0.084	0.1	15.8	<0.5	7.76	0.51	1,240	<0.2
C-233797	0405_1_CC29	8.9	0.16	49	55	<0.02	0.05	<0.2	<0.5	0.5	0.02	<0.1	<0.5	<0.5	1.4	0.13	105	<0.2
C-233805	0405_2_CC29	11.6	0.13	51	64	<0.02	0.04	<0.2	<0.5	0.57	0.02	<0.1	<0.5	<0.5	1.38	0.11	139	<0.2
C-248642	0406_CC29	33.8	0.66	183	362	0.02	0.18	<0.2	2.5	1.6	0.076	0.1	0.9	<0.5	6.67	0.44	1,370	<0.2
C-248646	0408_1_CC29	25.5	0.44	128	283	<0.02	0.13	<0.2	1.8	1.2	0.061	<0.1	0.6	<0.5	4.45	0.36	1,080	<0.2
C-246092	0408_2_CC29	43.3	0.78	244	440	<0.02	0.23	<0.2	6.8	1.8	0.085	<0.1	1	<0.5	7.79	0.51	1,610	<0.2
C-246093	0409_CC29	27.1	0.52	139	208	<0.02	0.14	<0.2	4	1.4	0.059	<0.1	0.5	<0.5	4.52	0.38	696	<0.2
C-246094	0410_CC29	43.1	0.7	272	409	<0.02	0.2	<0.2	7.4	1.5	0.082	<0.1	3.1	<0.5	6.72	0.5	1,230	<0.2
C-233785	0311_RENO1	39.5	0.68	398	567	0.03	0.2	<0.2	4.4	<0.1	0.079	<0.1	1.7	<0.5	8.72	0.43	122	<0.2
C-233786	0312_RENO1	40.4	0.65	418	562	0.03	0.19	<0.2	4.4	<0.1	0.077	<0.1	5.5	<0.5	8.6	0.42	134	<0.2
C-233787	0401_RENO1	39.9	0.63	414	559	<0.02	0.19	<0.2	4.3	<0.1	0.073	<0.1	5.8	<0.5	8.52	0.41	126	<0.2
C-233793	0403_RENO1	39.3	0.66	404	558	<0.02	0.19	<0.2	4.3	<0.1	0.077	<0.1	6.1	<0.5	8.39	0.4	126	<0.2
C-233795	0404_RENO1	39.7	0.64	410	562	<0.02	0.19	<0.2	4.4	<0.1	0.071	<0.1	5.7	<0.5	8.36	0.4	116	<0.2
C-233798	0405_1_RENO1	39.2	0.62	404	556	<0.02	0.18	<0.2	4.5	<0.1	0.071	<0.1	5.5	<0.5	8.08	0.4	106	<0.2
C-233801	0405_2_RENO1	40.2	0.73	409	564	<0.02	0.22	<0.2	4.7	<0.1	0.082	<0.1	1.5	<0.5	9.01	0.49	125	<0.2
C-248639	0406_RENO1	24.2	0.65	205	502	<0.02	0.19	<0.2	3.3	<0.1	0.079	<0.1	1	<0.5	8.27	0.42	158	<0.2
C-248643	0408_1_RENO1	30.7	0.77	287	545	<0.02	0.2	<0.2	3.6	<0.1	0.074	<0.1	<0.5	<0.5	8.46	0.45	142	<0.2
C-246089	0408_2_RENO1	42.5	0.85	536	650	<0.02	0.22	<0.2	10.9	<0.1	0.078	<0.1	<0.5	<0.5	9.1	0.44	144	<0.2
C-246090	0409_RENO1	41.3	0.73	523	622	<0.02	0.21	<0.2	10.9	<0.1	0.075	<0.1	<0.5	<0.5	8.91	0.46	141	<0.2
C-246091	0410_RENO1	42	0.74	522	630	<0.02	0.21	<0.2	10.9	<0.1	0.082	<0.1	1	<0.5	8.85	0.46	133	<0.2
C-233776	0311_GT2	46.4	2.92	1,060	2,260	<0.02	0.94	<0.2	11.5	0.58	0.34	<0.1	1.1	<0.5	37.6	1.81	1,100	<0.2
C-233777	0312_GT2	46.8	2.88	1,080	2,320	<0.02	0.95	<0.2	11.4	0.59	0.35	<0.1	1.4	<0.5	37.6	1.8	1,160	<0.2
C-233778	0401_GT2	47.1	2.88	1,100	2,320	<0.02	0.96	<0.2	11.8	0.68	0.35	<0.1	1.4	<0.5	37.7	1.74	1,210	<0.2
C-233792	0403_GT2	46.7	2.93	1,030	2,230	0.04	0.96	<0.2	11.1	0.61	0.36	<0.1	0.8	<0.5	36.8	1.81	1,060	<0.2
C-233796	0404_GT2	44.8	2.36	939	1,950	<0.02	0.8	<0.2	10	0.53	0.29	<0.1	1.1	<0.5	31	1.55	999	<0.2
C-233800	0405_1_GT2	41.2	2.19	859	1,790	<0.02	0.75	<0.2	9.1	0.5	0.27	<0.1	1.1	<0.5	28.7	1.42	919	<0.2
C-233803	0405_2_GT2	44.6	2.44	946	1,960	<0.02	0.83	<0.2	10.4	0.5	0.31	<0.1	1.5	<0.5	32	1.58	1,000	<0.2
C-248640	0406_GT2	34.2	2.65	700	1,860	0.08	0.83	<0.2	8.5	0.52	0.3	<0.1	0.8	<0.5	31.2	1.7	980	<0.2
C-248644	0408_1_GT2	34.4	2.61	659	1,900	0.04	0.84	<0.2	7.9	0.56	0.31	<0.1	<0.5	<0.5	32.7	1.65	988	<0.2
C-248647	0408_2_GT2	36.4	2.92	703	2,000	0.03	0.92	<0.2	8.3	0.6	0.33	<0.1	<0.5	<0.5	35.1	1.84	1,040	<0.2
C-246087	0409_GT2	46	2.4	1,140	2,000	<0.02	0.82	<0.2	23.4	0.62	0.29	<0.1	0.9	<0.5	30.4	1.56	1,120	<0.2
C-246088	0410_GT2	47.9	2.78	1,260	2,210	<0.02	0.95	<0.2	24	0.66	0.34	<0.1	0.8	<0.5	35	1.82	1,210	<0.2
C-233779	0311_UB1	32.9	0.97	371	783	<0.02	0.27	<0.2	4.3	0.4	0.098	<0.1	<0.5	<0.5	10.5	0.49	1,010	<0.2
C-233780	0312_UB1	36.1	1.1	342	687	0.06	0.29	<0.2	3.5	0.5	0.099	<0.1	<0.5	<0.5	11.6	0.49	1,140	<0.2
C-233781	0401_UB1	44.5	2.66	693	1,590	0.09	0.72	<0.2	7.7	1	0.26	<0.1	0.6	<0.5	26.6	1.36	1,380	<0.2
C-233791	0403_UB1	44.9	2.64	718	1,640	0.02	0.77	<0.2	7.4	1	0.27	<0.1	3.4	<0.5	27.7	1.49	1,420	<0.2
C-233794	0404_UB1	44.7	2.76	717	1,650	<0.02	0.78	<0.2	7.6	0.98	0.28	<0.1	5.7	<0.5	28.1	1.51	1,420	<0.2
C-233799	0405_1_UB1	40.7	2.15	565	1,230	<0.02	0.62	<0.2	6.3	0.79	0.23	<0.1	0.7	<0.5	22.1	1.23	1,300	<0.2
C-233804	0405_2_UB1	44.6	2.56	674	1,540	<0.02	0.72	<0.2	7.8	0.93	0.24	<0.1	0.9	<0.5	25.6	1.31	1,330	<0.2
C-248641	0406_UB1	32.7	2.61	491	1,440	0.04	0.71	<0.2	6.2	0.94	0.25	<0.1	<0.5	<0.5	24.7	1.33	1,340	<0.2
C-248645	0408_1_UB1	30.9	2.42	449	1,370	0.04	0.66	<0.2	6	0.88	0.23	<0.1	<0.5	<0.5	23.6	1.29	1,280	<0.2
C-246084	0408_2_UB1	49	2.72	936	1,720	<0.02	0.76	<0.2	18.9	1.1	0.26	<0.1	0.9	<0.5	27.6	1.44	1,590	<0.2
C-246085	0409_UB1	46.2	2.64	907	1,660	<0.02	0.79	<0.2	17.4	1.1	0.26	<0.1	0.8	<0.5	26.8	1.49	1,540	<0.2
C-246086	0410_UB1	43.2	2.56	855	1,600	<0.02	0.75	<0.2	17.4	0.99	0.24	<0.1	0.8	<0.5	26	1.41	1,530	<0.2
C-233788	0311_YSLB	41.2	1	404	898	<0.02	0.25	<0.2	4.4	0.1	0.081	<0.1	0.5	<0.5	7.89	0.42	297	<0.2
C-233789	0312_YSLB	40.3	0.98	403	911	<0.02	0.23	<0.2	4.4	0.1	0.066	<0.1	<0.5	<0.5	7.87	0.39	268	<0.2
C-233790	0312_field blank	<0.2	<0.01	<2	<0.5	<0.02	<0.005	<0.2	<0.5	<0.1	<0.005	<0.1	<0.5	<0.5	<0.01	<0.005	9.3	<0.2
C-233802	0405.2Field Blank	<0.2	<0.01	<2	<0.5	<0.02	<0.005	<0.2	<0.5	<0.1	<0.005	<0.1	<0.5	<0.5	<0.01	<0.005	<0.5	<0.2

Appendix A - Anion analyses by ion chromatography

[ppm = parts per million, < is less than detection limit]

Lab No.	Sample Description	Cl ppm	F ppm	NO ₃ ppm	SO ₄ ppm
C-233815	0311_CC29	1.4	0.8	<.08	315
C-233816	0312_CC29	0.8	1	<.08	340
C-233817	0401_CC29	0.9	1.2	<.08	300
C-233830	0405.1_CC29	0.8	0.2	<.08	60
C-233838	0405.2_CC29	0.6	0.2	0.6	50
C-248651	0406_CC29	7.3	0.8	<.08	227
C-248655	0408.1_CC29	6.5	0.9	<.08	310
C-246119	0408.2_CC29	6.5	0.8	<.08	330
C-246120	0409_CC29	0.5	0.5	<.08	184
C-246121	0410_CC29	6.6	0.9	<.08	361
C-233818	0311_RENO1	0.6	1.5	<.08	410
C-233819	0312_RENO1	0.6	1.5	<.08	380
C-233820	0401_RENO1	0.8	1.4	<.08	340
C-233826	0403_RENO1	1	1.4	<.08	360
C-233828	0404_RENO1	0.7	1.7	<.08	400
C-233831	0405.1_RENO1	1	1.7	<.08	410
C-233834	0405.2_RENO1	1	1.5	<.08	390
C-248648	0406_RENO1	6.4	1.7	<.08	485
C-248652	0408.1_RENO1	12.4	1.9	<.08	436
C-246116	0408.2_RENO1	6.5	1.7	<.08	494
C-246117	0409_RENO1	6.4	1.7	<.08	512
C-246118	0410_RENO1	6.4	1.9	<.08	524
C-233809	0311_GT2	1	3	<.08	980
C-233810	0312_GT2	1.9	1.8	<.08	1,040
C-233811	0401_GT2	1.6	2.3	<.08	1,110
C-233825	0403_GT2	1.7	1.9	<.08	1,030
C-233829	0404_GT2	0.8	2.2	<.08	1,000
C-233833	0405.1_GT2	1.1	1.7	<.08	870
C-233836	0405.2_GT2	0.9	2.1	<.08	900
C-248649	0406_GT2	12.4	2.1	<.08	1,128
C-248653	0408.1_GT2	12.6	2.2	<.08	1,137
C-248656	0408.2_GT2	12.6	2.2	<.08	1,224
C-246114	0409_GT2	12.5	1.9	<.08	1,050
C-246115	0410_GT2	12.2	2.1	<.08	1,244
C-233812	0311_UB1	11.9	1.1	<.08	390
C-233813	0312_UB1	20	1.2	<.08	365
C-233814	0401_UB1	1.5	2.2	<.08	775
C-233824	0403_UB1	0.8	2	<.08	630
C-233827	0404_UB1	1.5	2	<.08	680
C-233832	0405.1_UB1	4.4	1.7	<.08	610
C-233837	0405.2_UB1	1.5	1.9	<.08	680
C-248650	0406_UB1	12.7	1.8	<.08	778
C-248654	0408.1_UB1	12.8	1.8	<.08	760
C-246111	0408.2_UB1	12.5	1.8	<.08	846
C-246112	0409_UB1	26.7	1.8	<.08	824
C-246113	0410_UB1	13.1	1.7	<.08	783
C-233821	0311_YSLB	1.5	1.4	<.08	390
C-233822	0312_YSLB	1.2	1.5	<.08	390
C-233823	0312_field blank	<.08	<.08	<.08	<1.6
C-233835	0405.2Field Blank	<.08	<.08	<.08	<1.6