

Burns Lake Water Quality Study - 2010/2011

Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
C1	-106.80145	32.29671	6/7/2010	9:45	2.5	28.92	757		8.47	99.10%	7.61 mg/L	492	25040	727.0	0.585
C1 - Re-take	-106.80145	32.29671	6/7/2010	12:13	2.5									37.3	
C2	-106.80145	32.29671	6/7/2010	9:50	1.5	23.70	804		7.49	108.50%	9.16 mg/L	522	266	60.2	0.519
C3	-106.80145	32.29671	6/7/2010	9:50	0.5	24.70	796		8.17	89.80%	7.45 mg/L	518	184	21.8	0.353
C1	-108.80188	32.2961	6/7/2010	10:17	2.0	24.48	798		8.26	88.70%	7.38 mg/L	518	368	24.6	0.491
C2 - Duplicate	-106.80188	32.2961	6/7/2010	10:32	2.0								409	29.2	0.538
C2	-108.80188	32.2961	6/7/2010	10:26	1.0	24.38	794		8.22	77.10%	6.43 mg/L	516	264	18.7	0.515
C3	-108.80188	32.2961	6/7/2010	10:30	0.5	24.26	799		8.14	92.40%	7.73 mg/L	519	231	15.6	0.521
C1 - Center	-106.80054	32.29516	6/7/2010	10:45	1.05	25.04	745		8.47	222.20%	18.31 mg/L	484	187	86.0	0.374
C2 - Center	-106.80054	32.29516	6/7/2010	10:50	0.75	24.99	744		8.53	91.70%	7.57 mg/L	484	170	79.8	0.426
C3 - Center	-106.80054	32.29516	6/7/2010	10:55	0.5	25.79	740		8.62	80.70%	6.56 mg/L	481	156	52.9	0.305
C1	-106.79759	32.29424	6/7/2010	11:17	3.5	25.72	728		8.73	97%	7.90 mg/L	473	BAD	20.1	0.440
C1 - Duplicate	-106.79759	32.29424	6/7/2010	11:17	3.5								300	33.6	0.469
C2	-106.79759	32.29424	6/7/2010	11:25	2.5	24.98	730		8.32	102.10%	8.43 mg/L	474	BAD	17.3	0.463
C3	-106.79759	32.29424	6/7/2010	11:30	1.5	26.01	727		8.32	123.30%	9.98 mg/L	472	147	17.3	0.573
C1	-106.79691	32.29499	6/7/2010	11:38	3.5	24.67	726		8.33	155.40%	12.89 mg/L	472	504	22.8	0.859
C2	-106.79691	32.29499	6/7/2010	11:45	2.5	24.75	723		8.1	91.60%	7.59 mg/L	470	255	22.8	0.569
C3	-106.79691	32.29499	6/7/2010	11:50	1.5	24.62	732		8.22	112.20%	9.31 mg/L	476	171	17.3	0.475
Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	6/28/2010	9:10	3.0	25.45	721.0	727.0	8.49	93.9	7.68	469.0	356.0	37.3	0.604
1B	-106.79675	32.2946	6/28/2010	9:25	2.0	25.42	724.0	716.0	8.24	82.7	6.90	470.0	269.0	39.9	0.596
1C	-106.79675	32.2946	6/28/2010	9:30	1.0	24.87	721.0	720.0	8.09	88.8	7.34	469.0	263.0	26.2	0.630
1A - Dup.	-106.79675	32.2946	6/28/2010	9:15	3.0									42.8	0.691
Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	7/12/2010	8:40	3.0	24.66	760.0	755.0	8.69	185.7	15.41	494.0	492.0	48.0	0.990
1B	-106.79675	32.2946	7/12/2010	8:45	2.0	24.72	763.0	759.0	8.61	84.7	7.02	496.0	417.0	47.3	0.904
1C	-106.79675	32.2946	7/12/2010	8:50	1.0	24.96	759.0	759.0	8.68	142.8	11.78	494.0	418.0	42.2	0.795
1A - Dup.	-106.79675	32.2946	7/12/2010	8:40	3.0									55.6	0.893
Drain			7/12/2010	8:49	4 CFS Estimate									307.6	
Drain Duplicate			7/12/2010	8:50										410.6	
Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	7/26/2010	8:50	6.0	24.11	401.0	394.0	8.70	95.1	7.98	261.0	390.0	1986.3	0.700
1B	-106.79675	32.2946	7/26/2010	9:00	4.0	25.03	596.0	596.0	8.86	87.9	7.23	387.0	174.0	387.3	0.491
1C	-106.79675	32.2946	7/26/2010	9:10	2.0	24.41	602.0	596.0	8.72	93.4	7.79	392.0	177.0	325.5	0.510
1A - Dup.	-106.79675	32.2946	7/26/2010	8:50	6.0									1553.1	0.491
Molino Drain			7/26/2010	8:41	4 CFS Estimate									>2419.6	
Molino/Armijo			7/26/2010	8:48	8 CFS Estimate									>2419.6	
Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	8/9/2010	9:18	7.0	27.46	485.0	508.0	8.11	204.7	16.16	316.0	265.0	52.0	0.254
1B	-106.79675	32.2946	8/9/2010	9:33	3.5	27.29	476.0	496.0	8.29	343.5	27.20	309.0	34.9	5.2	0.142
1C	-106.79675	32.2946	8/9/2010	9:42	1.5	27.30	471.0	492.0	8.29	350.2	27.73	306.0	36.1	6.3	0.131
1A - Dup.	-106.79675	32.2946	8/9/2010	9:26	7.0									57.1	0.217

Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	8/25/2010	11:45	6.0	26.10	517.0	528.0	8.35	720.1	58.24	336.0	144.0	34.5	0.311
1B	-106.79675	32.2946	8/25/2010	11:50	4.0	25.89	506.0	515.0	7.98	118.2	9.59	329.0	102.0	23.5	0.333
1C	-106.79675	32.2946	8/25/2010	11:55	2.0	25.79	511.0	519.0	8.21	103.6	8.43	332.0	83.8	18.5	0.310
1A - Dup.	-106.79675	32.2946	8/25/2010	11:45	6.0									27.5	0.358
Molino Drain			8/25/2010	11:40	2 CFS Est.									1986.3	
Sample ID	Coordinate X	Coordinate Y	Date Collected	Time Collected	Depth ft	Temp C°	EC - Specific us/cm	EC - Actual us/cm	PH	DO % Saturation	DO mg/L	TDS mg/L	Turbidity NTU	E.Coli MPNu/100ml	Dissolved Al mg/L
1A	-106.79675	32.2946	9/7/2010	8:49	6.5	24.95	451.0	450.0	7.40	436.6	36.07	293.0	233.0	14.8	0.215
1B	-106.79675	32.2946	9/7/2010	8:58	3.0	23.97	446.0	437.0	8.01	104.6	8.80	290.0	59.6	9.8	0.127
1C	-106.79675	32.2946	9/7/2010	9:03	1.0	24.68	439.0	436.0	8.38	94.8	7.87	285.0	55.6	10.9	0.124
1A - Dup.	-106.79675	32.2946	9/7/2010	8:55	6.5									137.4	0.175
Sample ID	Coordinate X	Coordinate Y	Date Collected	TIME Collected	DEPTH ft	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli MPNu/100ml	Dissolved Al (mg/L)
1A	-106.79675	32.2946	9/21/2010	7:44	5.5	23.39	468.0	454.0	8.18	74.7	6.35	304.0	151.0	5.2	0.303
1B	-106.79675	32.2946	9/21/2010	7:58	2.5	23.30	465.0	450.0	8.41	75.2	6.40	303.0	125.0	2.0	0.313
1C	-106.79675	32.2946	9/21/2010	8:02	1.0	23.51	462.0	449.0	8.59	75.1	6.38	300.0	123.0	6.3	0.353
1A Dup.	-106.79675	32.2946	9/21/2010	7:51	5.5									1.0	0.363
Molino Drain			9/21/2010	7:36	3 CFS Est.									>2419.6	
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	10/5/2010	7:37	6.5	20.95	428.0	395.0	6.77	389.5	34.72	278.0	453.0	172.2	0.609
1B	-106.79675	32.2946	10/5/2010	7:47	3.0	20.91	254.0	234.0	8.13	69.6	69.60	165.0	218.0	224.7	0.696
1C	-106.79675	32.2946	10/5/2010	7:50	1.0	20.00	432.0	391.0	8.10	95.4	95.40	281.0	187.0	155.3	0.740
1A Dup.			10/5/2010	7:42	6.5									172.3	0.673
Molino Drain			10/5/2010	7:30	3 CFS Est.									>2419.6	
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	10/19/2010	8:47	6.5	18.61	410.0	360.0	9.65	396.1	37.00	267.0	633.0	33.7	0.475
1B	-106.79675	32.2946	10/19/2010	9:00	3.0	14.88	434.0	350.0	8.46	105.7	10.67	282.0	193.0	36.8	0.454
1C	-106.79675	32.2946	10/19/2010	9:05	1.0	14.29	447.0	356.0	8.45	108.2	11.06	291.0	169.0	27.5	0.462
1A Dup.			10/19/2010	8:50	6.5									32.7	0.429
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	11/1/2010	8:04	5.0	14.24	404.0	321.0	8.55	722.7	74	262	268	52.0	0.412
1B	-106.79675	32.2946	11/1/2010	8:13	2.0	14.10	391.0	310.0	8.41	99.3	10.2	254	236	38.8	0.390
1C	-106.79675	32.2946	11/1/2010	8:18	1.0	13.55	397.0	310.0	8.61	99.8	10.37	258	243	35.5	0.411
1A Dup.			11/1/2010	8:11	5.0									46.5	0.395
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	11/16/2010	7:45	5.0	9.55	373.0	263.0	10.38	579.6	66.06	242.0	262.0	40.4	0.510
1B	-106.79675	32.2946	11/16/2010	7:54	2.5	6.99	391.0	256.0	8.85	109.1	13.22	254.0	212.0	24.6	0.354
1C	-106.79675	32.2946	11/16/2010	7:57	1.0	6.88	392.0	257.0	8.70	105.9	12.88	255.0	194.0	30.9	0.326
1A Dup.			11/16/2010	7:52	5.0									47.1	0.328
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP °C	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	11/30/2010	12:15	4.0	7.10	397.0	261.0	8.72	467.7	56.57	258	130	33.1	0.444

1B	-106.79675	32.2946	11/30/2010	12:30	2.0	5.55	414.0	260.0	7.58	121.1	15.23	269	125	17.5	0.394
1C	-106.79675	32.2946	11/30/2010	12:36	1.0	5.32	417.0	261.0	7.91	127.1	16.08	271	126	35.0	0.407
1A Dup.			11/30/2010	12:25	4.0									42.8	0.461
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	12/14/2010	14:39	4.5	12.46	396.0	301.0	8.69	N/A	N/A	257	127	12.0	0.180
1B	-106.79675	32.2946	12/14/2010	14:49	2.5	9.85	414.0	294.0	7.24	N/A	N/A	269	73.2	9.7	0.141
1C	-106.79675	32.2946	12/14/2010	14:53	0.5	9.20	422.0	295.0	6.95	N/A	N/A	274	72.3	8.4	0.144
1A Dup.			12/14/2010	14:46	4.5								103.0	7.4	0.159
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	1/6/2011	14:42	4.5	6.36	451.0	291.0	10.45	N/A	N/A	293	288	3.0	0.420
1B	-106.79675	32.2946	1/6/2011	14:50	2.5	5.70	464.0	293.0	9.29	N/A	N/A	302	150	7.5	0.173
1C	-106.79675	32.2946	1/6/2011	14:55	1.0	5.32	469.0	293.0	8.84	N/A	N/A	305	30.8	2.0	0.144
1A Dup.			1/6/2011	14:45	4.5								114.0	5.2	0.317
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	1/18/2011	13:48	4.0	8.89	522.0	361.0	8.71	N/A	N/A	339	158	20.3	0.208
1B	-106.79675	32.2946	1/18/2011	13:54	2.0	9.16	501.0	349.0	8.31	N/A	N/A	326	67.3	6.3	0.166
1C	-106.79675	32.2946	1/18/2011	13:58	1.0	10.48	491.0	355.0	7.65	N/A	N/A	319	64.3	6.3	0.135
1A Dup.			1/18/2011	13:52	4.0								87.2	9.8	0.173
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	2/9/2011	13:59	4.0	7.29	639.0	423.0	8.73	429.6	51.68	416	79.3	12.2	0.317
1B	-106.79675	32.2946	2/9/2011	14:10	2.0	5.33	671.0	419.0	8.01	90.9	11.49	436	153.8	5.2	0.271
1C	-106.79675	32.2946	2/9/2011	14:13	1.0	4.57	684.0	417.0	7.75	95.9	12.31	444	50.3	4.1	0.253
1A Dup.			2/9/2011	14:05	4.0								111.0	8.6	0.367
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	2/25/2011	8:10	4.0	9.62	697	493	8.86	81.1	9.21	453	285	143.9	0.274
1B	-106.79675	32.2946	2/25/2011	8:21	2.0	9.21	677	473	8.25	80.5	9.25	440	135	131.4	0.249
1C	-106.79675	32.2946	2/25/2011	8:24	1.0	7.57	715	477	7.95	90.2	10.78	465	123	113.7	0.247
1A Dup.			2/25/2011	8:17	4.0								212	95.9	0.270
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	3/15/2011	9:25	3.5	15.00	703	568	8.41	91.7	9.23	457	283	18.5	
1B	-106.79675	32.2946	3/15/2011	9:35	2.5	15.01	702	568	8.32	94.6	9.52	457	93.6	15.8	
1C	-106.79675	32.2946	3/15/2011	9:45	1	15.17	702	570	8.39	97.1	9.73	456	76.1	17.1	
1A Dup.			3/15/2011	9:27	3.5								155	13.4	
SAMPLE #	Coordinate X	Coordinate Y	Date Collected	TIME	DEPTH	WATER TEMP ©	EC SPECIFIC	EC ACTUAL	PH	DO %	DO mg/L	TDS	TURBIDITY NTU	E.Coli	Dissolved Al (mg/L)
1A	-106.79675	32.2946	3/30/2011	8:00	3.0	16.48	721	603	8.36	110.0	10.74	468	607	12.1	
1B	-106.79675	32.2946	3/30/2011	8:08	2.0	16.45	720	602	8.38	86.9	8.48	468	125	12.1	
1C	-106.79675	32.2946	3/30/2011	8:12	1.0	16.44	720	603	8.34	85.9	8.38	468	110	14.5	
1A Dup.			3/30/2011	8:03	3.0								140	10.9	