

Appendix A. Results of Chemical Analyses on Field Blank-Water, Field-Replicate, and Aqueous Standard-Reference Quality-Control Samples

Table A1. Control blank-water samples prepared during sample collection from Lake Crescent.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated; <, less than; --, no data]

Collection Date	Nitrite-plus-Nitrate as N, in mg/L	Total Nitrogen as N, in mg/L	Total Phosphorus as P, in mg/L
6/20/2006	<0.004	<0.05	E0.005
6/20/2006	<0.004	<0.05	0.046
7/27/2006	<0.004	<0.05	<0.008
8/29/2006	<0.004	<0.05	<0.008
10/4/2006	<0.004	<0.05	<0.008
12/19/2006	<0.004	<0.05	<0.008
1/25/2007	<0.004	<0.05	<0.008
2/26/2007	<0.004	E0.02	<0.008
5/23/2007	E0.004	E0.02	<0.008
6/25/2007	--	<0.05	<0.008
7/23/2007	--	E0.02	<0.008
8/21/2007	--	<0.05	<0.008
9/25/2007	0.014	E0.04	<0.008
10/24/2007	<0.004	<0.05	<0.008
11/26/2007	<0.004	E0.05	<0.008

Table A2. Field blank-water samples prepared during sample collection from Lake Crescent stations LS02 480508123455710 and LS04 480333123503210.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated; <, less than]

Collection Date	Nitrite-plus-Nitrate as N, in mg/L	Total Nitrogen as N, in mg/L	Total Phosphorus as P, in mg/L
7/27/2006	<0.004	<0.05	<0.008
8/29/2006	<0.004	E0.03	0.012
10/4/2006	<0.004	<0.05	E0.007
10/31/2006	<0.004	E0.02	<0.008
12/19/2006	<0.004	<0.05	<0.008
1/25/2007	<0.004	<0.05	<0.008
4/4/2007	<0.004	E0.03	<0.008
5/23/2007	<0.004	E0.02	<0.008
6/25/2007	<0.004	<0.05	<0.008
7/23/2007	<0.004	<0.05	E0.004
8/21/2007	<0.004	<0.05	E0.006
9/25/2007	<0.004	<0.05	<0.008
10/24/2007	<0.004	<0.05	<0.008
11/26/2007	<0.004	<0.05	<0.008

Table A3. Field blank-water samples prepared during sample collection at selected stream sites.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated; <, less than]

Sampling Site	Collection Date	Total Nitrogen as N, in mg/L	Total Phosphorus as P, in mg/L	Nitrite-plus-Nitrate as N, in mg/L
Barnes Creek	11/3/2006	<0.05	<0.008	<0.004
Barnes Creek	11/5/2006	<0.05	<0.008	<0.004
Barnes Creek	11/6/2006	<0.05	<0.008	<0.004
Fairholm Creek	9/1/2006	<0.05	<0.008	<0.004
Fairholm Creek	10/4/2006	E0.02	<0.008	<0.004
Smith Creek	1/20/2007	<0.05	<0.008	<0.004
Smith Creek	4/26/2007	<0.05	<0.008	<0.004
Piedmont Creek	12/12/2006	<0.05	<0.008	<0.004
Piedmont Creek	3/11/2007	<0.05	<0.008	<0.004
Piedmont Creek at Mouth	2/5/2008	<0.05	<0.008	<0.004
Piedmont Creek at Mouth	2/7/2008	<0.05	<0.008	<0.004
Piedmont Creek at Mouth	2/13/2008	<0.05	<0.008	<0.004

Table A4. Field-replicate samples prepared during sample collection from Lake Crescent station LS02 480508123455710.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated; <, less than]

Sample Date	Sampling Depth, in meters	Total Nitrogen as N, in mg/L	Relative Difference, in percent	Total Phosphorus as P, in mg/L	Relative Difference, in percent	Nitrite-plus-Nitrate as N, in mg/L	Relative Difference, in percent ¹
5/23/2007	40	0.06 0.06	0	E0.008 0.009	11.7	<0.004 <0.004	0
2/26/2007	135	E0.04 E0.04	0	0.009 E0.007	25	0.033 0.022	40
7/23/2007	130	0.1 0.07	35	0.013 0.012	8	0.025 0.025	0
8/21/2007	130	E0.04 E0.04	0	0.011 0.011	0	0.019 0.011	53
11/26/2007	40	E0.04 E0.04	0	E0.007 E0.006	15.3	0.005 0.005	0

¹ Censored values were treated as un-remarked data for calculating relative percent differences.

Table A5. Field-replicate samples prepared during sample collection from Lake Crescent station LS04 480333123503210.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated]

Sample Date	Sampling Depth, in meters	Total Nitrogen as N, in mg/L	Relative Difference, in percent	Total Phosphorus as P, in mg/L	Relative Difference, in percent	Nitrite-plus-Nitrate as N, in mg/L	Relative Difference, in percent
4/24/2007	130	0.07 0.07	0	E0.008 E0.005	46.2	0.015 0.019	23.5

Table A6. Field-replicate samples prepared during sample collection at stream sites.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; E, estimated; <, less than]

Sampling Site	Sample Date	Total Nitrogen as N, in mg/L	Relative Difference, in percent	Total Phosphorus as P, in mg/L	Relative Difference, in percent	Nitrite-plus-Nitrate as N, in mg/L	Relative Difference, in percent ¹
Lyre River	3/11/2007	E0.02	40.0	0.009	5.9	<0.004	0
		E0.03		E0.008		<0.004	
Piedmont Creek	11/27/2007	0.45	4.3	0.013	3.7	0.372	0.3
		0.47		0.014		0.373	
Smith Creek	12/6/2007	E0.04	0	E0.006	14.3	0.01	9.1
		E0.04		E0.008		0.012	

¹ Censored values were treated as un-remarked data for calculating relative percent differences.

Table A7. Aqueous standard-reference samples submitted to Cooperative Chemical Analytical Laboratory (CCAL), Corvallis, Oregon, and U.S. Geological Survey (USGS) National Water Quality Laboratory, Denver, Colorado.

[N, nitrogen, P, phosphorus; mg/L, milligrams per liter; --, no data]

Date and Time of Preparation	Laboratory	Total Nitrogen as N, in mg/L	Total Phosphorus as P, in mg/L	Nitrite-plus-Nitrate as N, in mg/L
May 25, 2006 at 1300	USGS	0.56	0.28	--
May 25, 2006 at 1330	USGS	0.12	0.07	--
May 25, 2006 at 1400	USGS	0.51	0.27	--
May 25, 2006 at 1430	USGS	0.13	0.07	--
May 25, 2006 at 1300	CCAL	0.55	0.264	0.28
May 25, 2006 at 1330	CCAL	0.14	0.071	0.066
May 25, 2006 at 1400	CCAL	1.1	0.272	0.272
May 25, 2006 at 1430	CCAL	0.14	0.066	0.067