APPENDIX B
Lake Sawyer Data: 1994-95

PROJECT: 421195BT

King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

See next page
No data

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
LSIN1 May 11		L3621-1			2.18			0.06	0.0446		0.477		0.111	1.8	1.5						
LSIN2		L3621-2			2.79			0.269	0.0519		0.703		0.116	4.4	1.9						
LSIN3		L3621-3			1.96			0.339	0.004		0.691		0.064	2.2	1.8						
LSIN4		L3621-4			2.41			0.767			1.04		0.062	2.6	1.5						
LSIN5		L3621-5		0.0853	1.23			0.081	0.0272		0.866		0.116	3	0.8						
LSIN6 Tonis		L3621-6			1.53			0.076	0.0044		0.389		0.063	3.4	2.6						
LSIN7		L3621-7			4.24			0.967			1.32		0.061	4.2	2.7						
LSIN8		L3621-8			1.61			0.94			1.2		0.06	3.4	1.6						
LSIN9 Ravensdale		L3621-9			1.55			0.688			0.77		0.048	2.1							
LSOUT10		L3621-10			1.74			0.208			0.485		0.06	3.5	0.7						
LSINOUTDUP		L3621-11			4.21			0.968			1.29		0.06	4	2.7						
LSPRECIP1		L3622-1									0.751		0.111								
LSPRECIP1		L3622-2									0.823		0.117								
LSPRECIP2		L3622-3									0.19		0.061								
LSPRECIP2		L3622-4									0.299		0.074								
SAWYERA	0	L3623-1	59		1.74	5.3	10	0.218		0.6	0.471		0.007		0.7						
SAWYERA		L3623-2	60			6.8		0.267		1.2	0.483		0.042		0.9						
SAWYERA	6	L3623-3	60					0.326			0.555		0.009								
SAWYERA	9	L3623-4	60					0.346			0.554		0.012								
SAWYERA	12	L3623-5	61					0.348			0.566		0.014								
SAWYERA	15	L3623-6	61					0.378	0.00748		0.54		0.022								
SAWYERA	17.5	L3623-7	62	0.022				0.384	0.0256		0.593	5.55	0.041								
SAWYERB	0	L3623-8	59		1.76	3.9	10	0.214		0.51	0.455		0.042		0.6						
SAWYERB		L3623-9	60			7.7		0.263		1.4	0.478		0.01		0.9						
SAWYERB	6	L3623-10	61					0.316			0.512		0.012								
SAWYERB	9	L3623-11	61					0.358			0.506		0.012								
SAWYERB	12	L3623-12	60					0.357			0.508		0.011								
SAWYERB	15	L3623-13	67	0.132				0.314	0.0508		0.638	5.79	0.075								
SAWYERADUP		L3623-14	60			4.4		0.275	0.0021	0.98	0.512		0.012								
SAWYERBDUP		L3623-15	60			3.8		0.317		0.36	0.523		0.013								
SAWYERA	0	L3761-1	59		1.8	8.3	10	0.102		1.7	0.357		0.015		0.9						
SAWYERA	3	L3761-2	61					0.153	0.0025		0.386		0.016		0.9						
SAWYERA	6	L3761-3	61	0.02				0.296			0.473		0.014				0.0137		13.9		
SAWYERA	9	L3761-4	61					0.349			0.48		0.014								

NOTES about Lake Sawyer Project data presented in the following King County Environmental Lab Matrix Reports:

1. In most cases where no value is reported, the particular sampling site was not sampled for that constituent. In some cases however, an empty box means that although analysis was done, the constituent was present in a concentration below the analytical detection limit.

2. Units of sample depth are meters.

3. Sampling dates do not appear on the Matrix Reports. There is a Lab ID number for each sample and the following table relates sampling dates to the Lab ID numbers:

3621 - May 11, 1994
3622 - April 6, 1994
3623 - May 12, 1994
3761 - May 26, 1994
3868 - June 8, 1994
3869 - June 8, 1994
3870 - June 9, 1994
3936 - June 14, 1994
3959 - June 23, 1994
4021 - July 6 , 1994
4022 - July 6, 1994
4023 - July 7, 1994
4086 - July 21, 1994
4230 - August 3, 1994
4232 - August 4, 1994
4309 - August 18, 1994
4430 - September 7, 1994
4431 - September 7, 1994
4432 - September 8, 1994
4560 - September 27, 1994
4710 - October 12, 1994
4711 - October 12, 1994
4712 - October 13, 1994
4833 - October 27, 1994
4896 - November 16, 1994
4897 - November 16, 1994
4898 - November 17, 1994
5085 - December 20 - 1994
5086 - December 20, 1994
5087 - December 21, 1994
5088 - December 20, 1994
5156 - January 19, 1995
5156 - January 19, 1995
5157 - January 18, 1995
5158 - January 18, 1995
5160 - January 18, 1995
5454 - February 27, 1995
5496 - February 18, 1995
5555 - February 27, 1995
5590 - March 14, 1995
5591 - March 13, 1995
5675 - February 27, 1995
5885 - April 19, 1995
5886 - April 19, 1995
5887 - April 20, 1995

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L
LSIN1		L3621-1																	
LSIN2		L3621-2																	
LSIN3		L3621-3																	
LSIN4		L3621-4																	
LSIN5		L3621-5																	
LSIN6		L3621-6																	
LSIN7		L3621-7																	
LSIN8		L3621-8																	
LSIN9		L3621-9																	
LSOUT10		L3621-10																	
LSINOUTDUP		L3621-11																	
LSPRECIP1		L3622-1																	
LSPRECIP1		L3622-2																	
LSPRECIP2		L3622-3																	
LSPRECIP2		L3622-4																	
SAWYERA	0	L3623-1																	
SAWYERA		L3623-2																	
SAWYERA	6	L3623-3																	
SAWYERA	9	L3623-4																	
SAWYERA	12	L3623-5																	
SAWYERA	15	L3623-6																	
SAWYERA	17.5	L3623-7																	
SAWYERB	0	L3623-8																	
SAWYERB		L3623-9																	
SAWYERB	6	L3623-10																	
SAWYERB	9	L3623-11																	
SAWYERB	12	L3623-12																	
SAWYERB	15	L3623-13																	
SAWYERADUP		L3623-14																	
SAWYERBDUP		L3623-15																	
SAWYERA	0	L3761-1																	
SAWYERA	3	L3761-2																	
SAWYERA	6	L3761-3		0.058		6.03	0.0156					12.7			0.0096				
SAWYERA	9	L3761-4																	

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Manganese, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Selenium, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSIN1		L3621-1									19
LSIN2		L3621-2									
LSIN3		L3621-3									
LSIN4		L3621-4									
LSIN5		L3621-5									
LSIN6		L3621-6									
LSIN7		L3621-7									
LSIN8		L3621-8									
LSIN9		L3621-9									
LSOUT10		L3621-10									
LSINOUTDUP		L3621-11									
LSPRECIP1		L3622-1									
LSPRECIP1		L3622-2									
LSPRECIP2		L3622-3									
LSPRECIP2		L3622-4									
SAWYERA	0	L3623-1									
SAWYERA		L3623-2									
SAWYERA	6	L3623-3									
SAWYERA	9	L3623-4									
SAWYERA	12	L3623-5									
SAWYERA	15	L3623-6									
SAWYERA	17.5	L3623-7									
SAWYERB	0	L3623-8									
SAWYERB		L3623-9									
SAWYERB	6	L3623-10									
SAWYERB	9	L3623-11									
SAWYERB	12	L3623-12									
SAWYERB	15	L3623-13									
SAWYERADUP		L3623-14									
SAWYERBDUP		L3623-15									
SAWYERA	0	L3761-1									
SAWYERA	3	L3761-2									
SAWYERA	6	L3761-3									
SAWYERA	9	L3761-4									

King County Environmental Lab Matrix Report

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
SAWYERA	12	L3761-5	62					0.358			0.525		0.02								
SAWYERA	15	L3761-6	62					0.377	0.004		0.551		0.02								
SAWYERA	17.5	L3761-7	65	0.0805				0.351	0.0228		0.558	3.57	0.048				0.0131		13.7		
SAWYERB	0	L3761-8	62		1.8	7.2	10	0.094		1.6	0.314		0.013		0.7						
SAWYERB	3	L3761-9	60					0.156			0.376		0.014		1						
SAWYERB	6	L3761-10	61					0.307			0.554		0.014				0.0131		13.1		
SAWYERB	9	L3761-11	61					0.353					0.022								
SAWYERB	12	L3761-12	61					0.377			0.524		0.014								
SAWYERB		L3761-13	62	0.02				0.392	0.0031		0.599	3.81	0.023				0.0116		13.1		
SAWYERADUP		L3761-14	62			7.4		0.215		1.8	0.432		0.015								
SAWYERBDUP		L3761-15	62			7.4		0.38		1.1	0.525		0.016								
SAWYERA		L3761-16				8.1				1.7											
SAWYERB		L3761-17				5.8				1.9											
LSIN1		L3868-1		0.009	1.72				0.0291		0.451		0.053	1.6	1						
LSIN2		L3868-2		0.013	2.13			0.131	0.0413		0.537		0.052	2.2	1.5						
LSIN3		L3868-3		0.033	1.38			0.171			0.677		0.022	1.7	2.2						
LSIN4		L3868-4		0.007	1.39			0.402			0.727		0.018	2.8	2						
LSIN5		L3868-5		0.14	1.15			0.111	0.0171		1.14		0.068	1.8	1.2						
LSIN6		L3868-6		0.046	0.912			1.04	0.00534		1.44		0.024	6.2	2.4						
LSIN7		L3868-7		0.01	0.885			0.062			0.677		0.017	2.4	1.7						
LSIN8		L3868-8		0.007	1.57			0.689			0.974		0.011	3	1.2						
LSIN9		L3868-9			1.6			0.577			0.693		0.016	2.8							
LSOUT10		L3868-10		0.012	1.66						0.349		0.011	3.1	0.7						
LSINOUTDUP		L3868-11		0.012	1.64						0.355		0.017	3.1	0.8						
LSPRECIP1		L3869-1									0.61		0.041								
LSPRECIP2		L3869-2									0.599		0.018								
SAWYERA	0	L3870-1	60		1.67	4.4	10			0.67	0.321		0.02		0.6						
SAWYERA	3	L3870-2	61					0.06			0.376		0.016		0.8						
SAWYERA	6	L3870-3	61	0.023				0.26			0.617		0.034								
SAWYERA	9	L3870-4	61					0.349			0.637		0.015								
SAWYERA	12	L3870-5	61	0.023				0.35			0.648		0.027								
SAWYERA	15	L3870-6	63	0.0661				0.339	0.00652		0.611		0.035								
SAWYERA	17.5	L3870-7	75	0.236				0.227	0.0543		0.738	6.57	0.11								
SAWYERB	0	L3870-8	60		1.68	4.1	10			0.55	0.305		0.015		0.6						

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L
SAWYERA	12	L3761-5																	
SAWYERA	15	L3761-6																	
SAWYERA	17.5	L3761-7		0.393		5.85	0.201					12.4							
SAWYERB	0	L3761-8																	
SAWYERB	3	L3761-9																	
SAWYERB	6	L3761-10				5.74	0.0102					12.1							
SAWYERB	9	L3761-11																	
SAWYERB	12	L3761-12																	
SAWYERB		L3761-13		0.18		5.66	0.0422					12.2							
SAWYERADUP		L3761-14																	
SAWYERBDUP		L3761-15																	
SAWYERA		L3761-16																	
SAWYERB		L3761-17																	
LSIN1		L3868-1																	
LSIN2		L3868-2																	
LSIN3		L3868-3																	
LSIN4		L3868-4																	
LSIN5		L3868-5																	
LSIN6		L3868-6																	
LSIN7		L3868-7																	
LSIN8		L3868-8																	
LSIN9		L3868-9																	
LSOUT10		L3868-10																	
LSINOUTDUP		L3868-11																	
LSPRECIP1		L3869-1																	
LSPRECIP2		L3869-2																	
SAWYERA	0	L3870-1																	
SAWYERA	3	L3870-2																	
SAWYERA	6	L3870-3																	
SAWYERA	9	L3870-4																	
SAWYERA	12	L3870-5																	
SAWYERA	15	L3870-6																	
SAWYERA	17.5	L3870-7																	
SAWYERB	0	L3870-8																	

King County Environmental Lab Matrix Report

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Manganese, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Selenium, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
SAWYERA	12	L3761-5									
SAWYERA	15	L3761-6									
SAWYERA	17.5	L3761-7									
SAWYERB	0	L3761-8									
SAWYERB	3	L3761-9									
SAWYERB	6	L3761-10									
SAWYERB	9	L3761-11									
SAWYERB	12	L3761-12									
SAWYERB		L3761-13									
SAWYERADUP		L3761-14									
SAWYERBDUP		L3761-15									
SAWYERA		L3761-16									
SAWYERB		L3761-17									
LSIN1		L3868-1									31
LSIN2		L3868-2									
LSIN3		L3868-3									
LSIN4		L3868-4									
LSIN5		L3868-5									
LSIN6		L3868-6									
LSIN7		L3868-7									
LSIN8		L3868-8									
LSIN9		L3868-9									
LSOUT10		L3868-10									
LSINOUTDUP		L3868-11									
LSPRECIP1		L3869-1									
LSPRECIP2		L3869-2									
SAWYERA	0	L3870-1									
SAWYERA	3	L3870-2									
SAWYERA	6	L3870-3									
SAWYERA	9	L3870-4									
SAWYERA	12	L3870-5									
SAWYERA	15	L3870-6									
SAWYERA	17.5	L3870-7									
SAWYERB	0	L3870-8									

King County Environmental Lab Matrix Report

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
SAWYERB	3	L3870-9	61								0.36		0.013		0.6						
SAWYERB	6	L3870-10	61	0.034				0.249			0.579		0.02								
SAWYERB	9	L3870-11	61					0.342			0.599		0.015								
SAWYERB	12	L3870-12	61					0.369			0.607		0.012								
SAWYERB	15	L3870-13	68	0.218				0.214	0.0344		0.703	6.44	0.085								
SAWYERC	0	L3870-14				4.4				0.88	0.356		0.017								
SAWYERC	3	L3870-15									0.343		0.016								
SAWYERC	6	L3870-16									0.53		0.024								
SAWYERD	0	L3870-17				4.5				0.56	0.345		0.017								
SAWYERD	3	L3870-18									0.404		0.019								
SAWYERD	6	L3870-19									0.552		0.016								
SAWYERADUP		L3870-20	68			6		0.126		0.83	0.463		0.026								
LSIN1		L3936-1																			
LSIN1		L3936-1			2.38				0.0488		0.545		0.077	1.2	1.2	0.0016		0.0377			
LSIN2		L3936-2			2.12			0.136	0.0554		0.615		0.066	3.8	2.9	0.0016		0.0453			
LSIN2		L3936-2																			
LSIN3		L3936-3																			
LSIN3		L3936-3		0.032	1.35			0.169	0.0113		0.709		0.045	5.2	5	0.0015		0.0385		0.00058	0.0007
LSIN4		L3936-4																			
LSIN4		L3936-4		0.036	1.27			0.27	0.0444		0.75		0.09	20	10	0.0015		0.0418		0.0011	0.0007
LSIN5		L3936-5																			
LSIN5		L3936-5		0.112	0.95			0.134	0.0144		1.17		0.061	3.5	1.7	0.0012		0.00894		0.00054	
LSIN6		L3936-6																			
LSIN6		L3936-6		0.025	0.965			0.061	0.0126		0.973		0.063	10	15	0.00236		0.0588		0.001	0.0009
LSIN7		L3936-7																			
LSIN7		L3936-7			0.889			0.075	0.0039		0.753		0.035	13	10	0.00269		0.0417		0.00052	0.0009
LSIN8		L3936-8			1.35			0.36	0.0136		0.844		0.054	14	10	0.0016		0.0427		0.00061	0.0005
LSIN8		L3936-8																			
LSIN9		L3936-9																			
LSIN9		L3936-9			1.53			0.511			0.687		0.064	2.9	0.6			0.00322			
LSINOUTDUP		L3936-11																			
LSINOUTDUP		L3936-11		0.034	1.33			0.172	0.00823		0.69		0.047	4.8	5.2	0.0012		0.037			
SAWYERA	0	L3959-1	60		1.64	3.9	10			0.51	0.196		0.012		1						
SAWYERA	3	L3959-2	61						0.0022		0.19		0.013		1						

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L
SAWYERB	3	L3870-9																	
SAWYERB	6	L3870-10																	
SAWYERB	9	L3870-11																	
SAWYERB	12	L3870-12																	
SAWYERB	15	L3870-13																	
SAWYERC	0	L3870-14																	
SAWYERC	3	L3870-15																	
SAWYERC	6	L3870-16																	
SAWYERD	0	L3870-17																	
SAWYERD	3	L3870-18																	
SAWYERD	6	L3870-19																	
SAWYERADUP		L3870-20																	
LSIN1		L3936-1															0.0017	0.0417	0.00409
LSIN1		L3936-1						0.0979	0.0019	0.001			80.2						
LSIN2		L3936-2						0.097	0.0019	0.0012			76.7	0.00055					
LSIN2		L3936-2															0.0015	0.0546	0.00249
LSIN3		L3936-3															0.0011	0.0579	0.0011
LSIN3		L3936-3	0.00078					0.17	0.0017	0.0016			73.4	0.00096		0.0011			
LSIN4		L3936-4															0.0012	0.0612	0.00252
LSIN4		L3936-4	0.0018		0.00092			0.18	0.00242	0.00212			73.9	0.0019		0.00429			
LSIN5		L3936-5															0.0011	0.0138	0.00079
LSIN5		L3936-5						0.0711					25.9	0.0015					
LSIN6		L3936-6															0.0015	0.0761	0.0013
LSIN6		L3936-6	0.0015					0.107		0.00395			115	0.0015		0.00065			
LSIN7		L3936-7															0.00208	0.0352	0.0017
LSIN7		L3936-7						0.196	0.00054	0.00242	0.0011		108	0.00068		0.0115			
LSIN8		L3936-8	0.0011					0.161	0.00361	0.0015	0.0011		67.3	0.001		0.00269			
LSIN8		L3936-8															0.0013	0.0385	0.0018
LSIN9		L3936-9																0.00284	0.0015
LSIN9		L3936-9						0.00353					45.6	0.00053					
LSINOUTDUP		L3936-11															0.0012	0.0416	0.00308
LSINOUTDUP		L3936-11						0.174	0.0013	0.0013			69.6	0.00075					
SAWYERA	0	L3959-1																	
SAWYERA	3	L3959-2																	

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Manganese, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Selenium, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
SAWYERB	3	L3870-9									
SAWYERB	6	L3870-10									
SAWYERB	9	L3870-11									
SAWYERB	12	L3870-12									
SAWYERB	15	L3870-13									
SAWYERC	0	L3870-14									
SAWYERC	3	L3870-15									
SAWYERC	6	L3870-16									
SAWYERD	0	L3870-17									
SAWYERD	3	L3870-18									
SAWYERD	6	L3870-19									
SAWYERADUP		L3870-20									
LSIN1		L3936-1			0.082	0.002	0.0011		0.0015		
LSIN1		L3936-1									190
LSIN2		L3936-2									250
LSIN2		L3936-2			0.0621	0.0019	0.001		0.001		
LSIN3		L3936-3			0.149	0.0013	0.0012		0.00065	0.0019	
LSIN3		L3936-3									1400
LSIN4		L3936-4		0.00053	0.112	0.00265	0.0012	0.0011	0.001	0.00219	
LSIN4		L3936-4									770
LSIN5		L3936-5			0.0514		0.00054		0.0014	0.0006	
LSIN5		L3936-5									280
LSIN6		L3936-6	0.00078	0.001	0.0852		0.00361		0.00087	0.0012	
LSIN6		L3936-6									300
LSIN7		L3936-7	0.00057		0.0678	0.00057	0.00218	0.0011	0.00071	0.00334	
LSIN7		L3936-7									810
LSIN8		L3936-8									1600
LSIN8		L3936-8		0.00055	0.0447	0.00337	0.0012	0.0012	0.00082		
LSIN9		L3936-9			0.0013				0.00081		
LSIN9		L3936-9									22
LSINOUTDUP		L3936-11			0.143	0.0013	0.0013		0.0013	0.0011	
LSINOUTDUP		L3936-11									1400
SAWYERA	0	L3959-1									
SAWYERA	3	L3959-2									

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
SAWYERA	6	L3959-3	61	0.023				0.198			0.423		0.016								
SAWYERA	9	L3959-4	61					0.327			0.428		0.017								
SAWYERA	12	L3959-5	62					0.361	0.00718		0.62		0.026								
SAWYERA	15	L3959-6	62	0.0844				0.339	0.028		0.518		0.059								
SAWYERA	17.5	L3959-7	63	0.184				0.244	0.0485		0.577	6.49	0.081								
SAWYERB	0	L3959-8	61		1.66	4.5	10			0.7	0.17		0.009		1						
SAWYERB	3	L3959-9	61								0.184		0.01		1						
SAWYERB	6	L3959-10	61	0.03				0.189			0.376		0.017								
SAWYERB	9	L3959-11	61					0.336			0.443		0.015								
SAWYERB	12	L3959-12	61					0.377			0.509		0.014								
SAWYERB	15	L3959-13	70	0.321				0.127	0.0782		0.516	7.64	0.121								
SAWYERADUP		L3959-14	66	0.188		5.5		0.251	0.049	1.1	0.545		0.082								
SAWYERBDUP		L3959-15	61			5				1	0.171		0.012								
SAWYERA		L3959-16				5.4				0.88											
SAWYERB		L3959-17				4.7				1											

King County Environmental Lab Matrix Report

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L
SAWYERA	6	L3959-3																	
SAWYERA	9	L3959-4																	
SAWYERA	12	L3959-5																	
SAWYERA	15	L3959-6																	
SAWYERA	17.5	L3959-7																	
SAWYERB	0	L3959-8																	
SAWYERB	3	L3959-9																	
SAWYERB	6	L3959-10																	
SAWYERB	9	L3959-11																	
SAWYERB	12	L3959-12																	
SAWYERB	15	L3959-13																	
SAWYERADUP		L3959-14																	
SAWYERBDUP		L3959-15																	
SAWYERA		L3959-16																	
SAWYERB		L3959-17																	

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Manganese, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Selenium, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
SAWYERA	6	L3959-3									
SAWYERA	9	L3959-4									
SAWYERA	12	L3959-5									
SAWYERA	15	L3959-6									
SAWYERA	17.5	L3959-7									
SAWYERB	0	L3959-8									
SAWYERB	3	L3959-9									
SAWYERB	6	L3959-10									
SAWYERB	9	L3959-11									
SAWYERB	12	L3959-12									
SAWYERB	15	L3959-13									
SAWYERADUP		L3959-14									
SAWYERBDUP		L3959-15									
SAWYERA		L3959-16									
SAWYERB		L3959-17									

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Barium, Total, ICP mg/L	Calcium, Total, ICP mg/L	Copper, Total, ICP mg/L	Iron, Total, ICP mg/L	Magnesium, Total, ICP mg/L
LSIN1		L4021-1			3.09				0.0564		0.462		0.098	3.7	0.9					
LSIN2		L4021-2			2.83			0.138	0.0702		0.482		0.111	3.5	1.3					
LSIN3		L4021-3		0.03	1.45			0.115	0.0135		0.535		0.065	5.2	2.5					
LSIN4		L4021-4			1.78			0.21	0.00841		0.527		0.037	15	4.3					
LSIN5		L4021-5		0.03	1.29			0.104	0.0115		0.972		0.068	8	1.7					
LSIN6		L4021-6			1.35			0.059	0.00829		0.397		0.035	9.3	3.5					
LSIN7		L4021-7			1.61			0.142	0.0039		0.697		0.051	2.6	2					
LSIN8		L4021-8			1.68			0.325	0.00774		0.626		0.025	4.4	1.3					
LSIN9		L4021-9			1.76			0.509	0.005		0.588		0.03	4.9	0.9					
LSOUT10		L4021-10			1.82				0.0032		0.286		0.024	2.4	0.6					
LSINOUTDUP		L4021-11			3.03			0.05	0.0637		0.486		0.095	2.2	1					
LSPRECIP1		L4022-1									1.93		0.16							
LSPRECIP2		L4022-2									0.564		0.031							
SAWYERA	0	L4023-1	60		1.82	3.3	10		0.00673	0.63	0.314		0.018							
SAWYERA	3	L4023-2	61	0.175					0.0029		0.269		0.021		0.6					
SAWYERA	6	L4023-3	61					0.137	0.0039		0.527		0.039							
SAWYERA	9	L4023-4	61					0.364	0.0033		0.574		0.027							
SAWYERA	12	L4023-5	62	0.172				0.407	0.0113		0.656		0.069							
SAWYERA	15	L4023-6	66	0.398				0.243	0.0531		0.628		0.125							
SAWYERA	17.5	L4023-7	71					0.077	0.103		0.706	5.96	0.308							
SAWYERB	0	L4023-8	61		1.81	2.8	10		0.0041	0.34	0.276		0.018		0.6					
SAWYERB	3	L4023-9	61								0.307		0.027		0.6					
SAWYERB	6	L4023-10	63					0.174	0.002		0.557		0.038							
SAWYERB	9	L4023-11	62					0.349	0.0026		0.548		0.032							
SAWYERB	12	L4023-12	61					0.415	0.0038		0.644		0.037							
SAWYERB	15	L4023-13	62	0.507				0.052	0.133		0.793	6.51	0.288							
SAWYERC	0	L4023-14				3.5				0.62	0.321		0.02							
SAWYERC	3	L4023-15									0.305		0.036							
SAWYERC	6	L4023-16									0.586		0.068							
SAWYERD	0	L4023-17				3.8					0.301		0.04							
SAWYERD	3	L4023-18									0.295		0.027							
SAWYERD	6	L4023-19									0.496		0.036							
SAWYERADUP		L4023-20	74			3.1			0.0041	0.27	0.283		0.025							
SAWYERA	0	L4086-1	67		1.86	2.4	10		0.0032		0.262		0.02							
SAWYERA	3	L4086-2	61						0.0028		0.315				0.6					
SAWYERA	6	L4086-3	63						0.0024		0.45		0.02							
SAWYERA	9	L4086-4	63					0.31	0.00586		0.593		0.014							

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Manganese, Total, ICP mg/L	Sodium, Total, ICP mg/L	Zinc, Total, ICP mg/L	Fecal Coliform CFU/100ml
LSIN1		L4021-1				150
LSIN2		L4021-2				
LSIN3		L4021-3				
LSIN4		L4021-4				
LSIN5		L4021-5				
LSIN6		L4021-6				
LSIN7		L4021-7				
LSIN8		L4021-8				
LSIN9		L4021-9				
LSOUT10		L4021-10				
LSINOUTDUP		L4021-11				120
LSPRECIP1		L4022-1				
LSPRECIP2		L4022-2				
SAWYERA	0	L4023-1				
SAWYERA	3	L4023-2				
SAWYERA	6	L4023-3				
SAWYERA	9	L4023-4				
SAWYERA	12	L4023-5				
SAWYERA	15	L4023-6				
SAWYERA	17.5	L4023-7				
SAWYERB	0	L4023-8				
SAWYERB	3	L4023-9				
SAWYERB	6	L4023-10				
SAWYERB	9	L4023-11				
SAWYERB	12	L4023-12				
SAWYERB	15	L4023-13				
SAWYERC	0	L4023-14				
SAWYERC	3	L4023-15				
SAWYERC	6	L4023-16				
SAWYERD	0	L4023-17				
SAWYERD	3	L4023-18				
SAWYERD	6	L4023-19				
SAWYERADUP		L4023-20				
SAWYERA	0	L4086-1				
SAWYERA	3	L4086-2				
SAWYERA	6	L4086-3				
SAWYERA	9	L4086-4				

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Barium, Total, ICP mg/L	Calcium, Total, ICP mg/L	Copper, Total, ICP mg/L	Iron, Total, ICP mg/L	Magnesium, Total, ICP mg/L
SAWYERA	12	L4086-5	63	0.0636				0.292	0.0294		0.736		0.083							
SAWYERA	15	L4086-6	66	0.149				0.255	0.0427		0.664		0.19							
SAWYERA	17.5	L4086-7	69	0.273				0.168	0.0913		0.714	7.27	0.22							
SAWYERB	0	L4086-8	61		1.88	2	10		0.0024	0.41	0.27		0.008							
SAWYERB	3	L4086-9	61						0.0023		0.372		0.018							
SAWYERB	6	L4086-10	62					0.064	0.0023		0.633		0.04							
SAWYERB	9	L4086-11	61					0.32	0.0023		0.692		0.075							
SAWYERB	12	L4086-12	62					0.366	0.0025		0.727		0.04							
SAWYERB	15	L4086-13	75	0.81				0.083	0.234		1.04	8.2	0.376							
SAWYERADUP		L4086-14	64			2.7			0.0035	0.38	0.456		0.047							
SAWYERBDUP		L4086-15	61			2.5		0.352	0.0035	0.36	0.64		0.028							
SAWYERA		L4086-16				2.9				0.8										
SAWYERB		L4086-17				2.6				0.35										
LSIN1		L4230-1		Negative peaks resulted due to matrix interference. Interference could not be removed. No data is available for samples L4230-1 - 11.	2.14				0.121		0.662		0.196	4.7	1					
LSIN2		L4230-2			3.66			0.081	0.0839		0.461		0.122	3.4	1					
LSIN3		L4230-3			1.14			0.135	0.0173		0.597		0.063	2.8	2.2					
LSIN4		L4230-4			1.53			0.985	0.00667		1.53		0.05	8	2.3					
LSIN5		L4230-5			1.13			0.076	0.0172		0.895		0.074	5.9	0.6					
LSIN6		L4230-6			1.12				0.0049		0.247		0.05	24	2.8					
LSIN7		L4230-7			1.61			4.21	0.0023		5.26		0.096	23	9.2					
LSIN8		L4230-8			1.43			0.153	0.00907		0.495		0.065	4.8	0.8					
LSIN9		L4230-9			1.75			0.27	0.0035		0.493		0.024	3.9	0.5					
LSOUT10		L4230-10			1.59				0.00508		0.367		0.038	1.1						
LSINOUTDUP		L4230-11			3.57			0.079	0.0782		0.466		0.128	2.7	1					
SAWYERA	0	L4232-1	61		1.75	2.7	10		0.0032	0.075	0.278		0.013		1					
SAWYERA	3	L4232-2	63						0.0042		0.298		0.022		0.7					
SAWYERA	6	L4232-3	64						0.004		0.355		0.031			0.0141	12.7	0.0063	0.08	5.4
SAWYERA	9	L4232-4	64	0.031				0.269	0.0082		0.592		0.036							
SAWYERA	12	L4232-5	65	0.127				0.22	0.0458		0.606		0.096							
SAWYERA	15	L4232-6	65	0.175				0.211	0.0469		0.643		0.12							

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Manganese, Total, ICP mg/L	Sodium, Total, ICP mg/L	Zinc, Total, ICP mg/L	Fecal Coliform CFU/100ml
SAWYERA	12	L4086-5				
SAWYERA	15	L4086-6				
SAWYERA	17.5	L4086-7				
SAWYERB	0	L4086-8				
SAWYERB	3	L4086-9				
SAWYERB	6	L4086-10				
SAWYERB	9	L4086-11				
SAWYERB	12	L4086-12				
SAWYERB	15	L4086-13				
SAWYERADUP		L4086-14				
SAWYERBDUP		L4086-15				
SAWYERA		L4086-16				
SAWYERB		L4086-17				
LSIN1		L4230-1				300
LSIN2		L4230-2				
LSIN3		L4230-3				
LSIN4		L4230-4				
LSIN5		L4230-5				
LSIN6		L4230-6				
LSIN7		L4230-7				
LSIN8		L4230-8				
LSIN9		L4230-9				
LSOUT10		L4230-10				
LSINOUTDUP		L4230-11				
SAWYERA	0	L4232-1				
SAWYERA	3	L4232-2				
SAWYERA	6	L4232-3	0.0284	12.5	0.0098	
SAWYERA	9	L4232-4				
SAWYERA	12	L4232-5				
SAWYERA	15	L4232-6				

King County Environmental Lab Matrix Report

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color COLOR	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Barium, Total, ICP mg/L	Calcium, Total, ICP mg/L	Copper, Total, ICP mg/L	Iron, Total, ICP mg/L	Magnesium, Total, ICP mg/L
SAWYERA	17.5	L4232-7	69	0.48					0.159		0.824	7.2	0.406			0.0242	14		1.43	5.75
SAWYERB	0	L4232-8	65		1.74	2.8	10		0.0038	0.14	0.435		0.022		0.6					
SAWYERB	3	L4232-9	63						0.0034		0.434		0.024		0.5					
SAWYERB	6	L4232-10	65						0.0032		0.386		0.028			0.0146	13.7		0.079	5.72
SAWYERB	9	L4232-11	65					0.314	0.0042		0.59		0.02		0.5					
SAWYERB	12	L4232-12	64					0.377	0.00524		0.732		0.035							
SAWYERB	15	L4232-13	80	0.91					0.471		1.25	8.6	0.7			0.0288	13.8		2.03	5.58
SAWYERADUP		L4232-14	72	0.464		3.5			0.15	0.21	0.868		0.35							
SAWYERBDUP		L4232-15	66			2.3			0.0048	0.12	0.446		0.034							
SAWYERA		L4232-16				3.5														
SAWYERB		L4232-17				2.2				0.98										
SAWYERA	0	L4309-1	65		2.1	3.2	10			0.5	0.295		0.017		0.6					
SAWYERA	3	L4309-2	63	0.023					0.0045		0.277		0.022		0.6					
SAWYERA	6	L4309-3	64						0.0021		0.324		0.05							
SAWYERA	9	L4309-4	65	0.0484				0.204	0.0189		0.499		0.063							
SAWYERA	12	L4309-5	65	0.151				0.195	0.0471		0.53		0.122							
SAWYERA	15	L4309-6	67	0.334					0.0588		0.597		0.205							
SAWYERA	17.5	L4309-7	72	0.625					0.338		0.923	5.93	0.62							
SAWYERB	0	L4309-8	64		2.13	2.5	10		0.0101	0.27	0.294		0.042							
SAWYERB	3	L4309-9	63						0.0033		0.309		0.042		0.5					
SAWYERB	6	L4309-10	63						0.0026		0.356		0.031							
SAWYERB	9	L4309-11	64					0.236	0.00857		0.468		0.042							
SAWYERB	12	L4309-12	64	0.0793				0.267	0.0285		0.516		0.091							
SAWYERB	15	L4309-13	80	1.15					0.59		1.42	5.29	0.83							
SAWYERC	0	L4309-14				2.1				0.38	0.273		0.022							
SAWYERC	3	L4309-15									0.278		0.005							
SAWYERC	6	L4309-16									0.368		0.054							
SAWYERD	0	L4309-17				1.6				1.1	0.282		0.027							
SAWYERD	3	L4309-18									0.287		0.086							
SAWYERD	6	L4309-19									0.3		0.053							
SAWYERADUP		L4309-20	64			1.9			0.00608	0.99	0.309		0.021							

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Manganese, Total, ICP mg/L	Sodium, Total, ICP mg/L	Zinc, Total, ICP mg/L	Fecal Coliform CFU/100ml
SAWYERA	17.5	L4232-7	0.882	12.6		
SAWYERB	0	L4232-8				
SAWYERB	3	L4232-9				
SAWYERB	6	L4232-10	0.0261	12.7		
SAWYERB	9	L4232-11				
SAWYERB	12	L4232-12				
SAWYERB	15	L4232-13	1.26	12.2		
SAWYERADUP		L4232-14				
SAWYERBDUP		L4232-15				
SAWYERA		L4232-16				
SAWYERB		L4232-17				
SAWYERA	0	L4309-1				
SAWYERA	3	L4309-2				
SAWYERA	6	L4309-3				
SAWYERA	9	L4309-4				
SAWYERA	12	L4309-5				
SAWYERA	15	L4309-6				
SAWYERA	17.5	L4309-7				
SAWYERB	0	L4309-8				
SAWYERB	3	L4309-9				
SAWYERB	6	L4309-10				
SAWYERB	9	L4309-11				
SAWYERB	12	L4309-12				
SAWYERB	15	L4309-13				
SAWYERC	0	L4309-14				
SAWYERC	3	L4309-15				
SAWYERC	6	L4309-16				
SAWYERD	0	L4309-17				
SAWYERD	3	L4309-18				
SAWYERD	6	L4309-19				
SAWYERADUP		L4309-20				

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Fecal Coliform CFU/100ml
LSIN1		L4430-1			5.97				0.0967		0.756		0.191	4.6	0.8	13
LSIN2		L4430-2			6.12				0.0702		0.405		0.11	0.8	1	
LSIN3		L4430-3		0.038	1.25				0.00739		0.527		0.044	3.8	2.6	
LSIN4		L4430-4			2.24			0.078	0.0029		0.424		0.035	9.8	4.5	
LSIN6		L4430-6			1.58				0.0025		0.277		0.037	12	6.4	
LSIN8		L4430-8			1.8			0.09	0.0039		0.429		0.027	2.6	1.1	
LSIN9		L4430-9			1.91			0.213	0.0025		0.352		0.021	2.6		
LSOUT10		L4430-10		0.027	1.95				0.0025		0.479		0.037	1.1	0.9	
LSINOUTDUP		L4430-11		0.0412	1.94				0.0025		0.457		0.027	1.9	1.7	
LSPRECIP1		L4431-1									3.7		0.6			
LSPRECIP2		L4431-2									1.17		0.082			
SAWYERA	0	L4432-1	65		1.86	3.4	20		0.0036	0.59	1.07		0.019			
SAWYERA	3	L4432-2	66						0.0029		0.29		0.017		0.5	
SAWYERA	6	L4432-3	70						0.0029		0.365		0.02			
SAWYERA	9	L4432-4	69	0.0717				0.078	0.0029		0.504		0.047			
SAWYERA	12	L4432-5	69	0.166				0.111	0.0134		0.563		0.089			
SAWYERA	15	L4432-6	77	0.52					0.199		0.835		0.372			
SAWYERA	17.5	L4432-7	81	Sample had significant color which interfered with analysis.				Sample had significant color which interfered with analysis.	Sample had significant color which interfered with analysis.		1.32	5.57	0.646			
SAWYERB	0	L4432-8	65		1.85	2.9	5		0.0029	0.083	0.263		0.008			
SAWYERB	3	L4432-9	66	0.305					0.0029		0.279		0.006			
SAWYERB	6	L4432-10	67	0.029					0.0029		0.402		0.018			
SAWYERB	9	L4432-11	68	0.083				0.106	0.0029		0.41		0.032			
SAWYERB	12	L4432-12	67	0.11				0.184	0.0029		0.513		0.057			
SAWYERB	15	L4432-13	79	0.808					0.196		1.11	5.2	0.444			
SAWYERADUP		L4432-14	69	0.184		3.2		0.119	0.0029	0.12	0.594		0.116			
SAWYERBDUP		L4432-15	65			3.1			0.0029	0.093	0.328		0.01			
SAWYERA		L4432-16				3.8										
SAWYERB		L4432-17				2.3				0.97						
SAWYERA	0	L4560-1	65		1.65	2.3	10		0.00755	0.35	0.258		0.021			
SAWYERA	3	L4560-2	64						0.00647		0.401		0.017		0.9	
SAWYERA	6	L4560-3	67						0.00739		0.471		0.029			
SAWYERA	9	L4560-4	67						0.0135		0.317		0.059			
SAWYERA	12	L4560-5	69	0.222					0.0366		0.507		0.123			

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Fecal Coliform CFU/100ml
LSIN1		L4430-1			5.97				0.0967		0.756		0.191	4.6	0.8	13
LSIN2		L4430-2			6.12				0.0702		0.405		0.11	0.8	1	
LSIN3		L4430-3		0.038	1.25				0.00739		0.527		0.044	3.8	2.6	
LSIN4		L4430-4			2.24			0.078	0.0029		0.424		0.035	9.6	4.5	
LSIN6		L4430-6			1.58				0.0025		0.277		0.037	12	8.4	
LSIN8		L4430-8			1.8			0.09	0.0039		0.429		0.027	2.6	1.1	
LSIN9		L4430-9			1.91			0.213	0.0025		0.352		0.021	2.6		
LSOUT10		L4430-10		0.027	1.95				0.0025		0.479		0.037	1.1	0.9	
LSINOUTDUP		L4430-11		0.0412	1.94				0.0025		0.457		0.027	1.9	1.7	
LSPRECIP1		L4431-1									3.7		0.6			
LSPRECIP2		L4431-2									1.17		0.082			
SAWYERA	0	L4432-1	65		1.86	3.4	20		0.0036	0.59	1.07		0.019			
SAWYERA	3	L4432-2	66						0.0029		0.29		0.017		0.5	
SAWYERA	6	L4432-3	70						0.0029		0.365		0.02			
SAWYERA	9	L4432-4	69	0.0717				0.078	0.0029		0.504		0.047			
SAWYERA	12	L4432-5	69	0.166				0.111	0.0134		0.563		0.089			
SAWYERA	15	L4432-6	77	0.52					0.199		0.835		0.372			
SAWYERA	17.5	L4432-7	81	Sample had significant color which interfered with analysis.				Sample had significant color which interfered with analysis.	Sample had significant color which interfered with analysis.		1.32	5.57	0.648			
SAWYERB	0	L4432-8	65		1.65	2.9	5		0.0029	0.083	0.263		0.008			
SAWYERB	3	L4432-9	68	0.305					0.0029		0.279		0.006			
SAWYERB	6	L4432-10	67	0.029					0.0029		0.402		0.016			
SAWYERB	9	L4432-11	68	0.083				0.106	0.0029		0.41		0.032			
SAWYERB	12	L4432-12	67	0.11				0.184	0.0029		0.513		0.057			
SAWYERB	15	L4432-13	79	0.808					0.196		1.11	5.2	0.444			
SAWYERADUP		L4432-14	69	0.184		3.2		0.119	0.0029	0.12	0.594		0.116			
SAWYERBDUP		L4432-15	65			3.1			0.0029	0.093	0.328		0.01			
SAWYERA		L4432-16				3.8										
SAWYERB		L4432-17				2.3				0.97						
SAWYERA	0	L4560-1	65		1.65	2.3	10		0.00755	0.35	0.258		0.021			
SAWYERA	3	L4560-2	64						0.00647		0.401		0.017		0.9	
SAWYERA	6	L4560-3	67						0.00739		0.471		0.029			
SAWYERA	9	L4560-4	67						0.0135		0.317		0.059			
SAWYERA	12	L4560-5	69	0.222					0.0366		0.507		0.123			

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King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Fecal Coliform CFU/100ml
SAWYERA	15	L4560-6	76	Matrix interference resulted in NH3 result greater than TOTN result. NH3 result not reported.					0.377		0.992		0.44			
SAWYERB	0	L4560-8	65		1.65	2.1	10		0.00858	0.16	0.26		0.021			
SAWYERB	3	L4560-9	64						0.0048		0.268		0.015			
SAWYERB	6	L4560-10	67						0.0031		0.333		0.035			
SAWYERB	9	L4560-11	67						0.011		0.312		0.055			
SAWYERB	12	L4560-12	68	0.211					0.0266		0.481		0.107			
SAWYERC	0	L4560-14				1.6				0.41	0.266		0.016			
SAWYERC	3	L4560-15									0.27		0.018			
SAWYERC	6	L4560-16									0.338		0.051			
SAWYERD	0	L4560-17				2.7				0.34	0.253		0.015			
SAWYERD	3	L4560-18									0.282		0.021			
SAWYERD	6	L4560-19									0.285		0.034			
SAWYERADUP		L4560-20	68	0.219		3.7			0.0427	0.43	0.544		0.132			
LSIN1		L4710-1		Matrix interference resulted in negative peaks. No data reported for L4710-1, -2, -4 - 11.	6.98				0.0869		0.574		0.145	1.5	1.1	14
LSIN2		L4710-2			6.71				0.0655		0.345		0.101	2.4	2.4	
LSIN3		L4710-3			2.27				0.0116		0.426		0.041	2	4	
LSIN4		L4710-4			3.51				0.00798		0.33		0.035	6.2	5.3	
LSIN6		L4710-6			2.81			0.124	0.0037		0.273		0.018	3.2	4.4	
LSIN8		L4710-8			3.32			0.075	0.00745		0.352		0.018	0.8	0.7	
LSIN9		L4710-9			1.72			0.224	0.0047		0.293		0.01			
LSOUT10		L4710-10			2.31				0.002		0.381		0.02	3.7	0.9	
LSINOUTDUP		L4710-11			6.75				0.0843		0.551		0.142	1.9	2	14
LSPRECIP1		L4711-1									2.68		0.164			
LSPRECIP2		L4711-2									1.02		0.068			
SAWYERA	0	L4712-1	65		2.07	4	10		0.0044	0.77	0.237		0.014			
SAWYERA	3	L4712-2	65						0.00726		0.249		0.024			
SAWYERA	6	L4712-3	66						0.0034		0.314		0.02			
SAWYERA	9	L4712-4	69	0.105					0.0222		0.394		0.089			
SAWYERA	12	L4712-5	70	0.28					0.029		0.53		0.15			
SAWYERA	15	L4712-6	77	0.94					0.469		1.11		0.495			
SAWYERB	0	L4712-8	65		2.04	3.5	20		0.004	0.46	0.267		0.022			

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Fecal Coliform CFU/100ml
SAWYERB	3	L4712-9	65						0.0028		0.261		0.022			
SAWYERB	6	L4712-10	66						0.0025		0.258		0.016			
SAWYERB	9	L4712-11	68	0.0449					0.0027		0.347		0.071			
SAWYERB	12	L4712-12	69	0.339					0.0954		0.61		0.193			
SAWYERADUP		L4712-14	65			4.1			0.0047	0.74	0.273		0.017			
SAWYERBDUP		L4712-15	65			4.1			0.004	0.76	0.264		0.016			
SAWYERA		L4712-16				4.2				0.47						
SAWYERB		L4712-17				4.2				0.33						

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COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Biochemical Oxygen Demand mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Hardness, Calc mg CaCO3/L	Fecal Coliform CFU/100ml
LSIN1		L5591-1				2.3			0.634	0.02		1.14		0.043	2.1	2.7		53
LSIN2		L5591-2				2.09			0.655	0.0219		1.02		0.04	1.4	2.2		
LSIN3		L5591-3		0.037		2.33			0.993	0.00661		1.34		0.03	4.7	4.7		
LSIN4		L5591-4				1.84			1.36	0.0037		1.62		0.033	3.8	5.7		
LSIN5		L5591-5				1.83			0.538	0.00566		1.06		0.039	2.5	0.9		
LSIN6		L5591-6				1.31			0.719	0.00631		1.07		0.046	3.2	12		
LSIN7		L5591-7				1.42			0.257			0.604		0.02	2.6	3.7		
LSIN8		L5591-8				1.88			1.92	0.0023		2.24		0.028	3.9	5.8		
LSIN9		L5591-9				2.05			1.76			1.89		0.006	1.7	0.5		
LSOUT10		L5591-10				2.42			0.996	0.0022		1.23		0.021	1.2	0.9		
LSINOUTDUP		L5591-11				1.62			0.528	0.00[illegible]		1.12		0.031	2	0.9		
LSPRECIP2		L5675-1										0.405		0.037				
SAWYERA	0	L5590-1	51			2.49	3.9	20	0.959	0.00551	0.65	1.27		0.022		0.9		
SAWYERA	3	L5590-2	51	0.021					0.96	0.004		1.4		0.021		0.7		
SAWYERA	6	L5590-3	51	0.025					0.966	0.0032		1.4		0.021				
SAWYERA	9	L5590-4	52	0.035					0.96	0.0041		1.26		0.024				
SAWYERA	12	L5590-5	53	0.04					0.958	0.00587		1.23		0.029				
SAWYERA	15	L5590-6	54	0.0477					0.948	0.00635		1.27		0.029				
SAWYERA	17.5	L5590-7	54	0.0591					0.915	0.00515		1.34	3.71	0.037				
SAWYERB	0	L5590-8	50	0.027		2.49	3.5	20	0.974	0.0031	0.58	1.27		0.022		0.6		
SAWYERB	3	L5590-9	51	0.032					0.97	0.0038		1.34		0.021		0.5		
SAWYERB	6	L5590-10	51	0.023					0.931	0.0026		1.22		0.022				
SAWYERB	9	L5590-11	52	0.04					0.916	0.0043		1.24		0.024				
SAWYERB	12	L5590-12	52	0.0518					0.92	0.00539		1.21		0.025				
SAWYERB	15	L5590-13	53	0.0695					0.918	0.00682		1.38	2.89	0.033				
SAWYERADUP		L5590-14	53	0.0498			4.2		0.911	0.00563	0.99	1.26		0.029				
SAWYERBDUP		L5590-15	51	0.031			3.8		0.99	0.0041	0.79	1.27		0.024				
SAWYERA		L5590-16					4.2				0.73							
SAWYERB		L5590-17					3.6				0.42							
LSIN1		L5885-1				3.52			0.238	0.0191		0.643		0.046	2.3	1.4		28
LSIN2		L5885-2				4.05			0.434	0.0159		0.884		0.045	3.2	2.5		
LSIN3		L5885-3				3.69			0.593			1.02		0.025	3	2.6		
LSIN4		L5885-4				3.94			0.937			1.3		0.026	8.1	3.7		
LSIN5		L5885-5		0.033		2.03			0.074	0.00846		0.779		0.065	3.6	1		
LSIN6		L5885-6				1.87			0.953	0.0038		1.52		0.034	1.5	5.1		

King County Environmental Lab Matrix Report

PROJECT: 421185BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Biochemical Oxygen Demand mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Hardness, Calc mg CaCO3/L	Fecal Coliform CFU/100ml
LSIN7		L5885-7				4.46			0.591			1.11		0.021	5.3	3.4		
LSIN8		L5885-8				2.57			1.03			1.53		0.026	1.7	3.1		
LSIN9		L5885-9				2.84			1.29			1.39		0.012	1.2			
LSOUT10		L5885-10				3.03			0.831			1.2		0.018	2.2	0.6		
LSINOUTDUP		L5885-11				2.66			1.12	0.0022		1.56		0.031	3.2	3.1		
KCO		L5885-13										1.28		0.039				0
LSPRECIP1		L5886-1										1.44		0.168				
LSPRECIP2		L5886-2										0.173		0.0189				
SAWYERA	0	L5887-1	54			3.1	6.3	20	0.919		0.97	1.06		0.0168		0.6		
SAWYERA	3	L5887-2	53						0.849			1.11		0.0215		0.6		
SAWYERA	6	L5887-3	56						0.753			1.08		0.0196				
SAWYERA	9	L5887-4	54						0.99			1.08		0.0202				
SAWYERA	12	L5887-5	54						0.922			1.17		0.0171				
SAWYERA	15	L5887-6	54						0.864			1.08		0.0217				
SAWYERA	17.5	L5887-7	55	0.032					0.938	0.0031		1.13	3.94	0.0387				
SAWYERB	0	L5887-8	53			3.04	6.7	20	0.968		0.6	1.15		0.0178		0.6		
SAWYERB	3	L5887-9	53						0.873			1.07		0.0191		0.6		
SAWYERB	6	L5887-10	56						0.851			1.09		0.0418				
SAWYERB	9	L5887-11	53						1.01			1.08		0.0145				
SAWYERB	12	L5887-12	53						0.758			1.1		0.0356				
SAWYERB	15	L5887-13	54						0.76			1.07	3.06	0.0289				
SAWYERADUP		L5887-14	54				5.9		0.984		0.76	1.08		0.016				
SAWYERBDUP		L5887-15	52				6.8		0.702		0.77	1.14		0.0163				
SAWYERA		L5887-16					6.7				0.99							
SAWYERB		L5887-17					6.7				0.78							
LSIN1		L6402-1		0.03	2					0.053				0.0765	1.6	1.9	85.6	69
LSIN3A		L6402-2		0.101	2					0.0159				0.0727	4.4	3.9	61.5	60
LSIN5		L6402-3		0.026	3									0.0599	2.1	2.3	21.6	56
LSIN8		L6402-5		0.037					0.427	0.00727				0.0231	1.8	1.8	130	80
LSIN9A		L6402-6		0.027										0.0129	1.6	1.1	45.1	14
LSIN9B		L6402-7		0.027					0.746					0.0189	4.1	1.5	45.5	17
LSINDUP		L6402-8		0.027					0.133	0.0609				0.101	3.2	2.6	88.3	62

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Cadmium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L	Copper, Total, ICP-MS mg/L
LSBACK007		L5178-1												5.7	2.6								
LSMUD002		L5178-2												34	36								
LSIN1		L5157-1		0.0616	3.02			0.824	0.0219		1.28		0.057	2.1	1.9								
LSIN2		L5157-2			2.94			0.991	0.0171		1.57		0.039	2.3	2.3								
LSIN3		L5157-3		0.027	3.18			1.34	0.00524		1.77		0.029	3.7	4.3								
LSIN4		L5157-4			2.84			1.97	0.003		2.12		0.02	4.2	4.7								
LSIN5		L5157-5		0.0587	1.97			0.812	0.0123		1.31		0.033	0.9	0.7								
LSIN6		L5157-6			2.07			0.874	0.00618		1.06		0.039	2.2	12								
LSIN7		L5157-7			3.21			1.14			1.55		0.021	7	5.8								
LSIN8		L5157-8		0.0434	2.43			2.78	0.0034		3.58		0.023	2	5.3								
LSIN9		L5157-9			2.33			2.39	0.0035		2.75		0.008	1.6									
LSOUT10		L5157-10		0.028	2.58			0.758	0.00561		0.967		0.03	1.8	1								
LSINOUTDUP		L5157-11			2.28			1.93	0.00605		2.33		0.013	1.6	0.9								
LSPRECIP2		L5158-2									0.096		0.005										
SAWYERA	0	L5156-1	55	0.0484	2.6	8	20	0.809	0.0132	0.77	1.12		0.039		0.8								
SAWYERA	3	L5156-2	56	0.0494				0.84	0.0126		1.12		0.031		0.9								
SAWYERA	6	L5156-3	56	0.0569				0.801	0.0126		1.22		0.027										
SAWYERA	9	L5156-4	56	0.0566				0.722	0.0133		1.01		0.031										
SAWYERA	12	L5156-5	58	0.053				0.731	0.0104		1.01		0.03										
SAWYERA	15	L5156-6	64	0.0862				0.719	0.0183		1.23		0.037										
SAWYERA	17.5	L5156-7	66	0.137				0.694	0.0187		1.17	5.42	0.054										
SAWYERB	0	L5156-8	57	0.0572	2.51	16	20	0.665	0.0136	0.99	0.979		0.031		0.9								
SAWYERB	3	L5156-9	56	0.0574				0.649	0.0129		1.16		0.036		1								
SAWYERB	6	L5156-10	56	0.0586				0.664	0.0126		1.04		0.033										
SAWYERB	9	L5156-11	57	0.0628				0.646	0.0131		1.08		0.034										
SAWYERB	12	L5156-12	57	0.0616				0.647	0.0137		1.02		0.033										
SAWYERB	15	L5156-13	57	0.0597				0.654	0.0127		1.09	3.66	0.034										
SAWYERADUP		L5156-14	57	0.0587		8.4		0.728	0.0126	0.99	1.06		0.028										
SAWYERBDUP		L5156-15	57	0.0554		14		0.662	0.0137	0.83	1.04		0.039										
SAWYERA		L5156-16				6.8				0.82													
SAWYERB		L5156-17				12				1.1													
LSIN1		L5496-1																					
LSIN1		L5496-1			3.01			0.679	0.0154		1.1		0.041	2.1	3	0.00089		0.0328					0.0011
LSIN2		L5496-2		0.0603	2.62			0.744	0.0226		1.08		0.042	3.4	3.7	0.00081		0.0316			0.00053		0.0012

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Zinc, Total, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSBACK007		L5178-1																	
LSMUD002		L5178-2																	
LSIN1		L5157-1																	45
LSIN2		L5157-2																	
LSIN3		L5157-3																	
LSIN4		L5157-4																	
LSIN5		L5157-5																	
LSIN6		L5157-6																	
LSIN7		L5157-7																	
LSIN8		L5157-8																	
LSIN9		L5157-9																	
LSOUT10		L5157-10																	
LSINOUTDUP		L5157-11																	
LSPRECIP2		L5158-2																	
SAWYERA	0	L5156-1																	
SAWYERA	3	L5156-2																	
SAWYERA	6	L5156-3																	
SAWYERA	9	L5156-4																	
SAWYERA	12	L5156-5																	
SAWYERA	15	L5156-6																	
SAWYERA	17.5	L5156-7																	
SAWYERB	0	L5156-8																	
SAWYERB	3	L5156-9																	
SAWYERB	6	L5156-10																	
SAWYERB	9	L5156-11																	
SAWYERB	12	L5156-12																	
SAWYERB	15	L5156-13																	
SAWYERADUP		L5156-14																	
SAWYERBDUP		L5156-15																	
SAWYERA		L5156-16																	
SAWYERB		L5156-17																	
LSIN1		L5496-1											0.0294		0.001	0.0012	0.00088	0.00094	
LSIN1		L5496-1					0.0292	0.00066	0.001		60.1	0.0013							38
LSIN2		L5496-2					0.0235	0.00058	0.0011		52.9	0.00205							41

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Cadmium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L	Copper, Total, ICP-MS mg/L
LSIN2		L5496-2																					
LSIN3		L5496-3		0.0464	2.05			0.921	0.0356		1.67		0.128	28	18	0.0012		0.0409			0.0012	0.00066	0.00267
LSIN3		L5496-3																					
LSIN4		L5496-4		0.033	1.86			0.947	0.0635		1.35		0.246	55	42	0.0019		0.0416			0.0019	0.0014	0.00432
LSIN4		L5496-4																					
LSIN5		L5496-5		0.0867	1.72			1.14	0.0166		1.64		0.039	5.5	1.7	0.00052		0.00657					0.00078
LSIN5		L5496-5																					
LSIN6		L5496-6			1.38			0.82	0.0184		2.08		0.68	300	130	0.00593		0.112	0.0003			0.00433	0.0174
LSIN6		L5496-6																					
LSIN7		L5496-7			2.3			0.964	0.0121		1.48		0.93	200	190	0.0056		0.0727				0.00485	0.00996
LSIN7		L5496-7																					
LSIN8		L5496-8		0.0438	1.53			1.3	0.0306		1.66		0.109	19	15	0.0011		0.0312					0.00227
LSIN8		L5496-8																					
LSIN9		L5496-9		0.028	2.28			1.78	0.0126		1.8		0.01	4.1	0.9			0.00335					
LSIN9		L5496-9																					
LSOUT10		L5496-10			2.68			0.864	0.0112		1.09		0.02	1.6	0.8								
LSINOUTDUP		L5496-11																					
LSINOUTDUP		L5496-11		0.029	2.36			0.941	0.0114		1.42		0.885	200	180	0.00518		0.0699				0.00481	0.00965
SAWYERA	0	L5454-1	47		2.35	2.5	20	1.24	0.00576	0.68	1.5		0.032		1.2								
SAWYERA	3	L5454-2	54	0.025				0.872	0.0042		1.17		0.017		0.8								
SAWYERA	6	L5454-3	55	0.036				0.841	0.0049		1.09		0.017				0.013			12.4			
SAWYERA	9	L5454-4	55	0.039				0.821	0.0043		1.08		0.02										
SAWYERA	12	L5454-5	56	0.0443				0.815	0.00692		1.14		0.02										
SAWYERA	15	L5454-6	57	0.0535				0.799	0.00645		1.13		0.021										
SAWYERA	17.5	L5454-7	59	0.078				0.748	0.00756		1.18	4.17	0.035				0.015			12.5			
SAWYERB	0	L5454-8	49	0.025	2.56	2.2	20	1.12	0.00639	0.94	1.44		0.021		1								
SAWYERB	3	L5454-9	51	0.032				0.918	0.00727		1.39		0.018		0.8								
SAWYERB	6	L5454-10	54	0.032				0.829	0.00558		1.16		0.02				0.011			11.2			
SAWYERB	9	L5454-11	55	0.036				0.82	0.00547		1.21		0.025		0.6								
SAWYERB	12	L5454-12	55	0.0421				0.825	0.00552		1.08		0.016										
SAWYERB	15	L5454-13	56	0.0784				0.784	0.0075		1.13	3.71	0.025				0.013			12.3			
SAWYERADUP		L5454-14	47			2.8		1.19	0.00576	0.88	1.53		0.023										
SAWYERBDUP		L5454-15	55	0.0421		2.1		0.822	0.00535	0.88	1.18		0.032										
SAWYERA		L5454-16				2.9				1.2													

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Zinc, Total, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSIN2		L5496-2											0.0303		0.001	0.00075	0.00094	0.0014	
LSIN3		L5496-3		0.0016			0.116	0.00073	0.00215		55.4	0.00773							160
LSIN3		L5496-3											0.0279		0.0013	0.00074	0.0011	0.002	
LSIN4		L5496-4		0.00339			0.173	0.0009	0.0033		51	0.013							270
LSIN4		L5496-4											0.0229		0.0014	0.00086	0.001	0.0016	
LSIN5		L5496-5									17.3	0.00096							120
LSIN5		L5496-5											0.00557		0.0007			0.0012	
LSIN6		L5496-6		0.0151					0.00821		27.1	0.04							520
LSIN6		L5496-6											0.0127		0.0018		0.00082	0.0016	
LSIN7		L5496-7		0.00378				0.00254	0.0106		73.1	0.0275							46
LSIN7		L5496-7											0.0303	0.00053	0.00241	0.0025	0.00211	0.0011	
LSIN8		L5496-8		0.0019				0.00061	0.0014		39.3	0.00767							450
LSIN8		L5496-8											0.0214		0.0011	0.00058	0.00082	0.0026	
LSIN9		L5496-9									49.3	0.00068							8
LSIN9		L5496-9											0.00306					0.00054	
LSOUT10		L5496-10																	
LSINOUTDUP		L5496-11											0.0313	0.00055	0.00251	0.00245	0.0021	0.0011	
LSINOUTDUP		L5496-11		0.00372				0.00257	0.0107		73.3	0.0265							59
SAWYERA	0	L5454-1																	
SAWYERA	3	L5454-2																	
SAWYERA	6	L5454-3	0.061		5.39	0.0101				11.7									
SAWYERA	9	L5454-4																	
SAWYERA	12	L5454-5																	
SAWYERA	15	L5454-6																	
SAWYERA	17.5	L5454-7	0.15		5.61	0.0386				13.1									
SAWYERB	0	L5454-8																	
SAWYERB	3	L5454-9																	
SAWYERB	6	L5454-10			4.89	0.0064				10.5									
SAWYERB	9	L5454-11																	
SAWYERB	12	L5454-12																	
SAWYERB	15	L5454-13	0.069		5.4	0.0302				12.2									
SAWYERADUP		L5454-14																	
SAWYERBDUP		L5454-15																	
SAWYERA		L5454-16																	

PROJECT: 421195BT

King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Cadmium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L	Copper, Total, ICP-MS mg/L
SAWYERB		L5454-17				2.3				0.86													
LSPRECIP1		L5555-1									0.249		0.041										

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Zinc, Total, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
SAWYERB		L5454-17																	
LSPRECIP1		L5555-1																	

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
LSIN1		L4833-1			7.43				0.0783		0.208		0.122	2.1	1.5	0.0011		0.0315			
LSIN1		L4833-1																			
LSIN2		L4833-2																			
LSIN2		L4833-2			7.45			0.088	0.0764		0.683		0.151	6.3	3.2	0.0016		0.049			
LSIN3		L4833-3																			
LSIN3		L4833-3			3.35			0.893	0.0114		1.67		0.178	34	22	0.0018		0.0566		0.0011	0.00091
LSIN4		L4833-4																			
LSIN4		L4833-4			3.31			0.629	0.0168		1.51		0.309	65	56	0.0028		0.0615		0.00253	0.0016
LSIN5		L4833-5																			
LSIN5		L4833-5			1.22			0.811	0.0044		1.51		0.046	3.6	2.8	0.00051		0.00697			
LSIN6		L4833-6																			
LSIN6		L4833-6			3.45			0.695	0.00654		2.23		0.149	16	17	0.0024		0.0576		0.00099	0.00054
LSIN7		L4833-7																			
LSIN7		L4833-7			4.28			0.629	0.0044		1.43		0.35	90	66	0.0038		0.0761		0.0014	0.00216
LSIN8		L4833-8																			
LSIN8		L4833-8			2.06			0.548	0.008		1.46		0.239	64	34	0.0031		0.074		0.00249	0.0017
LSIN9		L4833-9																			
LSIN9		L4833-9			1.56			0.176	0.0044		0.245		0.021	2.9	1.3			0.00304			
LSINOUTDUP		L4833-11																			
LSINOUTDUP		L4833-11			2.06			0.544	0.00762		1.54		0.262	70	34	0.00303		0.0731		0.00219	0.0016
LSIN1		L4833-12																			
LSIN1		L4833-12			1.69			0.332	0.00767		0.525		0.02	0.9	0.5			0.0034			
LSIN9		L4833-13																			
LSIN9		L4833-13			6.73				0.0826		0.604		0.134	1.2	2.2	0.0013		0.0366			
LSIN1PEAK		L4833-14																			
LSIN1PEAK		L4833-14			6.82			0.063	0.071		0.677		0.134	2.8	4	0.0013		0.0458			
LSPRECIP1		L4897-1									0.597		0.063								
LSPRECIP2		L4897-2									0.369		0.031								
LSIN1		L4896-1			4.88				0.027		0.586		0.055	0.6	1						
LSIN2		L4896-2			4.48			0.147	0.0279		0.69		0.061	1.4	1.8						
LSIN3		L4896-3		0.035	3.23			0.45	0.0045		1.07		0.072	9.1	9.5						
LSIN4		L4896-4			2.64			0.44	0.00601		0.893		0.03	25	25						
LSIN5		L4896-5			1.06			0.83			1.61		0.028	1.3	1						
LSIN6		L4896-6			1.87			0.594	0.01		1.79		0.047	11	33						

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L
LSIN1		L4833-1						0.0269	0.00099	0.00076			73.1						
LSIN1		L4833-1														0.0011		0.00326	
LSIN2		L4833-2														0.0013		0.00094	
LSIN2		L4833-2	0.00071						0.0011	0.0012			94.6	0.0005	0.0032				
LSIN3		L4833-3														0.00067		0.0014	
LSIN3		L4833-3	0.00283		0.0017				0.00078	0.00254			71	0.00249	0.00851				
LSIN4		L4833-4														0.00083		0.0011	
LSIN4		L4833-4	0.00593		0.00468				0.00093	0.00371			56.8	0.00505	0.0166				
LSIN5		L4833-5																0.00064	
LSIN5		L4833-5	0.00055					0.0194		0.00057			24.4	0.001					
LSIN6		L4833-6														0.001		0.0014	
LSIN6		L4833-6	0.00421		0.00068					0.00287			64.6	0.00201	0.00301				
LSIN7		L4833-7														0.0014		0.0013	0.000
LSIN7		L4833-7	0.00542		0.0014				0.0012	0.00606	0.0011		134	0.0027	0.0198				
LSIN8		L4833-8														0.00091		0.001	
LSIN8		L4833-8	0.00505		0.00351				0.00061	0.00368			39.9	0.0048	0.0164				
LSIN9		L4833-9																0.00068	
LSIN9		L4833-9						0.00436					41.7						
LSINOUTDUP		L4833-11														0.00088		0.00097	
LSINOUTDUP		L4833-11	0.00469		0.00348				0.00058	0.00338			40.2	0.00422	0.0158				
LSIN1		L4833-12														0.00058		0.0011	
LSIN1		L4833-12	0.0016					0.00343					46.1						
LSIN9		L4833-13														0.0011		0.0032	
LSIN9		L4833-13	0.0018					0.0476	0.00098	0.00096			77.5	0.00052					
LSIN1PEAK		L4833-14														0.0014		0.0019	
LSIN1PEAK		L4833-14	0.00084					0.0722	0.0012	0.0012			89.5	0.00064	0.00066				
LSPRECIP1		L4897-1																	
LSPRECIP2		L4897-2																	
LSIN1		L4896-1																	
LSIN2		L4896-2																	
LSIN3		L4896-3																	
LSIN4		L4896-4																	
LSIN5		L4896-5																	
LSIN6		L4896-6																	

King County Environmental Lab Matrix Report

PROJECT: 42119SBT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSIN1		L4833-1						410
LSIN1		L4833-1	0.00071	0.0009	0.00082	0.0012	0.00066	
LSIN2		L4833-2	0.00091	0.001	0.0012	0.00051	0.00291	
LSIN2		L4833-2						500
LSIN3		L4833-3	0.0015	0.00062	0.0014	0.00072	0.00655	
LSIN3		L4833-3						1000
LSIN4		L4833-4	0.00206	0.00077	0.0014	0.00075	0.00342	
LSIN4		L4833-4						1600
LSIN5		L4833-5	0.00072		0.00053	0.00085	0.0011	
LSIN5		L4833-5						310
LSIN6		L4833-6	0.0039		0.00272	0.0011	0.00558	
LSIN6		L4833-6						3600
LSIN7		L4833-7	0.00265	0.0011	0.00283	0.00056	0.0066	
LSIN7		L4833-7						320
LSIN8		L4833-8	0.0019		0.0012	0.00076	0.00324	
LSIN8		L4833-8						2200
LSIN9		L4833-9					0.00079	
LSIN9		L4833-9						540
LSINOUTDUP		L4833-11	0.0019		0.0011	0.00067	0.00493	
LSINOUTDUP		L4833-11						3400
LSIN1		L4833-12	0.0018	0.00077	0.00063	0.00071	0.0018	
LSIN1		L4833-12						
LSIN9		L4833-13	0.00211	0.001	0.001	0.0013	0.0011	
LSIN9		L4833-13						
LSIN1PEAK		L4833-14	0.00082	0.0012	0.0012	0.00099	0.0012	
LSIN1PEAK		L4833-14						1000
LSPRECIP1		L4897-1						
LSPRECIP2		L4897-2						
LSIN1		L4896-1						62
LSIN2		L4896-2						
LSIN3		L4896-3						
LSIN4		L4896-4						
LSIN5		L4896-5						
LSIN6		L4896-6						

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
LSIN7		L4896-7		0.026	2.79			0.629	0.0028		1.19		0.083	20	15						
LSIN8		L4896-8			2.27			0.388	0.0041		0.872		0.071	10	11						
LSIN9		L4896-9			1.52			0.435	0.0024		0.574		0.011								
LSOUT10		L4896-10			3.66			0.075	0.0022		0.431		0.022	1.7	1.1						
LSINOUTDUP		L4896-11			4.33			0.147	0.0273		0.676		0.061	1.4	1.5						
SAWYERA	0	L4898-1	65		1.87	8.3	20		0.0022	1.2	0.314		0.028		0.5						
SAWYERA	3	L4898-2	65						0.0034		0.315		0.038		0.7						
SAWYERA	6	L4898-3	65								0.306		0.031				0.0115		13.1		
SAWYERA	9	L4898-4	65						0.00575		0.345		0.032								
SAWYERA	12	L4898-5	73	0.337					0.13		0.761		0.216								
SAWYERA	15	L4898-6	77	1.01					0.366		1.07		0.442								
SAWYERA	16	L4898-7	83	1.04					0.411		1.55	5.75	0.748				0.0372		14.9		
SAWYERB	0	L4898-8	65		1.97	9.4	10		0.00601	1.5	0.29		0.03		0.5						
SAWYERB	3	L4898-9	65						0.00844		0.517		0.032		0.5						
SAWYERB	6	L4898-10	65						0.0049		0.274		0.035				0.0122		13.2		
SAWYERB	9	L4898-11	67	0.0595					0.0195		0.354		0.051		0.5						
SAWYERB	12	L4898-12	73	0.4					0.153		0.711		0.222								
SAWYERB	13.5	L4898-13	85	1.74					0.635		1.68	5.65	0.74				0.0332		15.6		
SAWYERADUP		L4898-14	65			7.5			0.00825	1	0.312		0.028								
SAWYERBDUP		L4898-15	67	0.0617		8.9			0.019	0.99	0.369		0.046								
SAWYERA		L4898-16				6.6				2.2											
SAWYERB		L4898-17				8.9				1.2											
LSIN1		L5085-1		0.057	2.04			0.791	0.0191		1.2		0.048	1.4	2.7						
LSIN2		L5085-2		0.0646	1.98			0.887	0.0198		1.43		0.058	2.2	2.8						
LSIN3		L5085-3		0.0519	1.75			1.1	0.0119		1.63		0.079	11	9.7						
LSIN4		L5085-4		0.0602	1.48			1.31	0.0112		1.61		0.099	13	16						
LSIN5		L5085-5		0.0774	1.25			1.06	0.0117		1.67		0.041	1.3	1						
LSIN6		L5085-6		0.0584	1.37			0.978	0.0204		1.58		0.173	42	31						
LSIN7		L5085-7		0.0476	1.28			0.595	0.005		0.91		0.063	20	13						
LSIN8		L5085-8		0.0737	1.45			2.09	0.0123		2.44		0.042	4.9	6.9						
LSIN9		L5085-9		0.0433	1.28			1.39	0.00779		1.53		0.023	5.2	1.3						
LSOUT10		L5085-10		0.131	1.65			0.221	0.026		0.601		0.068	1.7	1.5						
LSINOUTDUP		L5085-11		0.0624	1.27			0.606	0.00911		0.974		0.072	18	13						
LSINBA		L5085-12											1.57	480	250	0.00522		0.154		0.0239	0.00709

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L
LSIN7		L4896-7																	
LSIN8		L4896-8																	
LSIN9		L4896-9																	
LSOUT10		L4896-10																	
LSINOUTDUP		L4896-11																	
SAWYERA	0	L4898-1																	
SAWYERA	3	L4898-2																	
SAWYERA	6	L4898-3		0.053		6.29	0.0374					18.8							
SAWYERA	9	L4898-4																	
SAWYERA	12	L4898-5																	
SAWYERA	15	L4898-6																	
SAWYERA	16	L4898-7		2.86		6.12	1.03					13.6							
SAWYERB	0	L4898-8																	
SAWYERB	3	L4898-9																	
SAWYERB	6	L4898-10				5.7	0.0478					13.1							
SAWYERB	9	L4898-11																	
SAWYERB	12	L4898-12																	
SAWYERB	13.5	L4898-13		2.71		6.24	0.989					13.5							
SAWYERADUP		L4898-14																	
SAWYERBDUP		L4898-15																	
SAWYERA		L4898-16																	
SAWYERB		L4898-17																	
LSIN1		L5085-1																	
LSIN2		L5085-2																	
LSIN3		L5085-3																	
LSIN4		L5085-4																	
LSIN5		L5085-5																	
LSIN6		L5085-6																	
LSIN7		L5085-7																	
LSIN8		L5085-8																	
LSIN9		L5085-9																	
LSOUT10		L5085-10																	
LSINOUTDUP		L5085-11																	
LSIN8A		L5085-12	0.0346		0.0666				0.00207	0.0169	0.0012		38.8		0.109				

PROJECT: 421195BT

King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSIN7		L4896-7						
LSIN8		L4896-8						
LSIN9		L4896-9						
LSOUT10		L4896-10						
LSINOUTDUP		L4896-11						
SAWYERA	0	L4898-1						
SAWYERA	3	L4898-2						
SAWYERA	6	L4898-3						
SAWYERA	9	L4898-4						
SAWYERA	12	L4898-5						
SAWYERA	15	L4898-6						
SAWYERA	16	L4898-7						
SAWYERB	0	L4898-8						
SAWYERB	3	L4898-9						
SAWYERB	6	L4898-10						
SAWYERB	9	L4898-11						
SAWYERB	12	L4898-12						
SAWYERB	13.5	L4898-13						
SAWYERADUP		L4898-14						
SAWYERBDUP		L4898-15						
SAWYERA		L4898-16						
SAWYERB		L4898-17						
LSIN1		L5085-1						58
LSIN2		L5085-2						
LSIN3		L5085-3						
LSIN4		L5085-4						
LSIN5		L5085-5						
LSIN6		L5085-6						
LSIN7		L5085-7						
LSIN8		L5085-8						
LSIN9		L5085-9						
LSOUT10		L5085-10						
LSINOUTDUP		L5085-11						
LSIN8A		L5085-12						

PROJECT: 421195BT

King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Alkalinity mg CaCO3/L	Ammonia Nitrogen mg/L	Chloride mg/L	Chlorophyll-A mg/m3	Color CPU	Nitrite + Nitrate Nitrogen mg/L	Ortho Phosphorus mg/L	Phaeophytin mg/m3	Total Nitrogen mg/L	Total Organic Carbon mg/L	Total Phosphorus mg/L	Total Suspended Solids mg/L	Turbidity NTU	Arsenic, Total, ICP-MS mg/L	Barium, Total, ICP mg/L	Barium, Total, ICP-MS mg/L	Calcium, Total, ICP mg/L	Chromium, Total, ICP-MS mg/L	Cobalt, Total, ICP-MS mg/L
LSIN8A		L5085-12																			
LSPRECIP1		L5088-1									0.369		0.025								
LSPRECIP2		L5088-2									0.245		0.013								
SAWYERA	0	L5087-1	58	0.0932	1.59	17	30	0.635	0.019		0.653		0.06		0.9						
SAWYERA	3	L5087-2	62	0.103				0.22	0.0199		0.567		0.047		0.7						
SAWYERA	6	L5087-3	62	0.0924				0.191	0.0193		0.557		0.044								
SAWYERA	9	L5087-4	62	0.0924				0.212	0.0183		0.585		0.046								
SAWYERA	12	L5087-5	63	0.0905				0.229	0.0187		0.628		0.043								
SAWYERA	15	L5087-6	66	0.108				0.259	0.0185		0.799		0.044								
SAWYERA	17.5	L5087-7	72	0.264				0.309	0.0251		1.06	5.99	0.063								
SAWYERB	0	L5087-8	61	0.107	1.56	4.7	20	0.115	0.0223		0.474		0.044								
SAWYERB	3	L5087-9	62	0.0929				0.132	0.02		0.62		0.046		0.6						
SAWYERB	6	L5087-10	62	0.0968				0.152	0.0196		0.513		0.045								
SAWYERB	9	L5087-11	63	0.0996				0.119	0.0215		0.415		0.045								
SAWYERB	12	L5087-12	63	0.11				0.101	0.0225		0.41		0.044								
SAWYERB	15	L5087-13	64	0.136				0.145	0.028		0.613	4.77	0.054								
SAWYERADUP		L5087-14	65	0.104		7.6		0.273	0.0193	0.75	0.705		0.047								
SAWYERBDUP		L5087-15	62	0.0924		3.8		0.213	0.0222	0.46	0.494		0.05								
SAWYERA		L5087-16				13															
SAWYERB		L5087-17				6.5				1.1											

King County Environmental Lab Matrix Report

PROJECT: 4211958T

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Total, ICP-MS mg/L	Iron, Total, ICP mg/L	Lead, Total, ICP-MS mg/L	Magnesium, Total, ICP mg/L	Manganese, Total, ICP mg/L	Manganese, Total, ICP-MS mg/L	Molybdenum, Total, ICP-MS mg/L	Nickel, Total, ICP-MS mg/L	Selenium, Total, ICP-MS mg/L	Sodium, Total, ICP mg/L	Hardness, Calc mg CaCO3/L	Vanadium, Total, ICP-MS mg/L	Zinc, Total, ICP-MS mg/L	Arsenic, Dissolved, ICP-MS mg/L	Barium, Dissolved, ICP-MS mg/L	Chromium, Dissolved, ICP-MS mg/L	Cobalt, Dissolved, ICP-MS mg/L
LSIN8A		L5085-12															0.00816		
LSPRECIP1		L5088-1																	
LSPRECIP2		L5088-2																	
SAWYERA	0	L5087-1																	
SAWYERA	3	L5087-2																	
SAWYERA	6	L5087-3																	
SAWYERA	9	L5087-4																	
SAWYERA	12	L5087-5																	
SAWYERA	15	L5087-6																	
SAWYERA	17.5	L5087-7																	
SAWYERB	0	L5087-8																	
SAWYERB	3	L5087-9																	
SAWYERB	6	L5087-10																	
SAWYERB	9	L5087-11																	
SAWYERB	12	L5087-12																	
SAWYERB	15	L5087-13																	
SAWYERADUP		L5087-14																	
SAWYERBDUP		L5087-15																	
SAWYERA		L5087-16																	
SAWYERB		L5087-17																	

King County Environmental Lab Matrix Report

PROJECT: 421195BT

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Copper, Dissolved, ICP-MS mg/L	Molybdenum, Dissolved, ICP-MS mg/L	Nickel, Dissolved, ICP-MS mg/L	Vanadium, Dissolved, ICP-MS mg/L	Zinc, Dissolved, ICP-MS mg/L	Fecal Coliform CFU/100ml
LSINBA		L5085-12	0.0013	0.00055	0.00074		0.0018	
LSPRECIP1		L5088-1						
LSPRECIP2		L5088-2						
SAWYERA	0	L5087-1						
SAWYERA	3	L5087-2						
SAWYERA	6	L5087-3						
SAWYERA	9	L5087-4						
SAWYERA	12	L5087-5						
SAWYERA	15	L5087-6						
SAWYERA	17.5	L5087-7						
SAWYERB	0	L5087-8						
SAWYERB	3	L5087-9						
SAWYERB	6	L5087-10						
SAWYERB	9	L5087-11						
SAWYERB	12	L5087-12						
SAWYERB	15	L5087-13						
SAWYERADUP		L5087-14						
SAWYERBDUP		L5087-15						
SAWYERA		L5087-16						
SAWYERB		L5087-17						

Lake Sawyer Field Sheet

Date: 4-14-94

Samplers: Walton / Stein

Weather:

Current: Showers / Sunny

Past 48hrs: Same

Station: Lake Sawyer 3 (SAWYER3) A

Calibr = 13.0°C 1054

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (µS)	pH	Light
0	1037	10.4	8.94			
3	1042	10.2	2.43			
6	1044	7.6	2.26			
9	1045	6.2	2.27			
12	1047	5.9	2.22			
15	1050	5.8	2.19			
1	1053	11.3	14.08			
Field Rep	1056	10.3	12.53			

Secchi Depth (M): 3.6 m

Surface Light: _____ at _____

Euphotic Zone Depth (M): _____

Zooplankton Haul Depth (M): _____

Phytoplankton Sample: _____

Duplicate TP at Surface, and Bottom: _____

Duplicate Chlorophyll a: _____

Comments:

Date: 4-26-94

Samplers: Steve M
Bob S.

Weather:
Current: Cloudy
Past 48hrs: Sunny / Partly Cloudy

2nd Test Run w/Boat only
* obtained 1 Rock Cr. Inflow sample (grant agreement not signed yet)

Station: Lake Sawyer (SAWYERB)

Calibration = 13.3° and 10.49 mg/L

Depth (m)	Time	Temp (C)	DO (mg/L)	~~Grnd tvSt~~ Depth (m)	~~pH~~ Temp (°C)	~~Light~~ DO (mg/L)
0	1020	14.7	7.12	2	14.7	4.23
1	1025	14.7	5.72			
3	1033	12.7	3.79	4	11.3	3.90
~~6~~ 5	1036	9.0	3.54	6	7.6	3.27
7	1040	6.8	3.16			
9	1042	6.3	~~2.95~~	8	6.5	3.03
~~12~~ 11	1046	6.0	2.90	10	6.1	2.90
13	1048	5.9	2.84			
15	1051	5.8	2.73	12	5.9	2.87
				14	5.8	2.80
Field Rep						

Secchi Depth (M): 2.65 M

Surface Light: _____ at _____

Euphotic Zone Depth (M): _____

Zooplankton Haul Depth (M): _____

Phytoplankton Sample: _____

Duplicate TP at Surface, and Bottom: _____

Duplicate Chlorophyll a: _____

Comments: Rock [illegible] 1225
[illegible]
grab sample obtained.

Lake ~~Sawyer~~ Field Sheet

Date: 4-14-94

Samplers: Walton / Storer

Weather:

Current: Showers / Breezy

Past 48hrs: Same

Station: Lake ~~Sawyer~~ Z (SAWYER Z) D

Calibr. = 13.0°C 10.54

Sawyer Z

Depth (m)	Time	Temp (C)	DO (mg/L)	~~Cond~~ (uS) Time	~~pH~~ Temp	~~Light~~ DO
0	1139	10.4	12.5	1217	10.9	12.33
1	1141	10.1	13.56	1219	10.8	12.36
2	1141	10.0	10.05	1220	10.6	12.86
3	1144	9.5	5.86	1222	10.5	13.08
4	1147	9.2	4.55	1222	10.5	12.91
5	1150	8.5	3.87	1224	10.4	11.10
6	1151	6.8	3.52	1227	7.6	8.20
~~Field Rep~~	1152	6.5	3.30	1229	6.6	7.59
1	1155	6.3	3.09	1231	6.4	6.28

Secchi Depth (M): 3.6M

Surface Light: _____ at _____

Euphotic Zone Depth (M): _____

Zooplankton Haul Depth (M): _____

Phytoplankton Sample: _____

Duplicate TP at Surface, and Bottom: _____

Duplicate Chlorophyll a: _____

Comments:

Lake Sawyer Field Sheet

Date: 5/12/94

Samplers: BOB STORER
DEZ FEILD

Weather: MOSTLY CLOUDY 60°F
Current
Past 48hrs PARTLY CLOUDY

Station: Lake Sawyer A (SAWYER A)

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (µS)	pH	Light
0	10:30	19.4	9.66	147	8.62	
3		16.1	1.82	138	8.70	
6		8.1	2.01	117	7.37	
9		6.6	1.94	112	7.20	
12		6.2	1.91	110	7.25	
15		6.0	1.89	110	7.07	
17 ~~17.5~~	11:50			115	7.14	
Field Rep	11:55	3M/0M FOR CHLOROPHYLL				

BOTTOM MEASURED 17.2 M / SAMPLED @ 17.0M

	TEMP	DO
1	19.3	3.14
2	19.2	1.8
4	12.5	1.9
5	9.2	2.0
7	7.1	1.9
8	6.7	1.9
10	6.3	1.9
11	6.2	1.9
13	6.1	1.9
14	6.1	1.8
16	6.0	1.8
17		

Secchi Depth (M): 3.50

Surface Light: _____ at _____

Euphotic Zone Depth (M): _____

Zooplankton Haul Depth (M): _____

Phytoplankton Sample: _____

Duplicate TP at Surface, and Bottom: _____

Duplicate Chlorophyll a: _____

Comments:

Lake Sawyer Field Sheet

Date: 5/12/94

Samplers: BOB STORER, DEE FIELD

Weather: MOSTLY CLOUDY 70°F

Current

Past 48hrs Mostly Cloudy

Station: Lake Sawyer B (SAWYERB)

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (µS)	pH	Light
0	12:40	20.0	9.50	148	8.56	
3		14.5	12.85	130	8.43	
6		7.7	3.36	118	7.10	
9		6.4	3.56	110	7.29	
12		6.1	3.23	110	7.00	
15		5.9	2	117	7.17	
Field Rep	2:05	6M / CHLOROPHYL @ 0M				

MAX. Depth = 15M (Sample bt. @ 14.5M)

	°C
1	19.4
2	19.2
4	11.7
5	8.8
7	7.0
8	6.8
10	6.2
11	6.2
13	6.0
14	5.9
16	
17	

Secchi Depth (M): 3.4

Surface Light: at

Euphotic Zone Depth (M):

Zooplankton Haul Depth (M):

Phytoplankton Sample:

Duplicate TP at Surface, and Bottom:

Duplicate Chlorophyll a:

Comments:

Lake Sawyer Field Sheet

Samplers: ROB STOKES
DEB FIELD

Date: 5/26/94

Secchi Depth (m): 3.0 M

Weather:
Current CLOUDY 60°F

Zooplankton Haul Depth (m): 15.5

Past 48hrs MOSTLY CLOUDY

Phytoplankton Sample: 0.5, 1.5, 2.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:18	19.3	10.89	141	8.70
1		19.3	10.89	—	—
2		19.3	10.98	—	—
3		16.2	14.01	133	8.84
4		13.3	14.14	—	—
5		11.0	10.4	—	—
6		8.5	3.89	118	7.25
7		7.6	3.22	3.31 —	—
8		7.0	3.32	—	—
9		6.6	3.42	111	7.30
10		6.4	3.49	—	—
11		6.2	3.29	—	—
12		6.2	3.28	110	7.37
13		6.2	3.29	—	—
14		6.1	3.18	—	—
15		6.1	3.05	110	7.39
16		6.1	2.73	—	—
17.0	11:10	ND	2.18	120	7.69
	DUP @ 3				
	CHL A DUP @ 0				

MAX DEPTH 17.25

Comments: pH CAL 7 = 7.07
10 = 10.13 @ 16.4°C

COND. CHECK 78 @ 21°C
(82 @ 25°C) TRUE VALUE = 84

Lake Sawyer Field Sheet

Samplers: BOB STORER
DEE FEILD

Date: 5/26/94

Secchi Depth (m): 3.3

Weather:
Current CLOUDY 65°F

Zooplankton Haul Depth (m): 13.5

Past 48hrs MOSTLY CLOUDY

Phytoplankton Sample: 0.5, 1.5, 2.5

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	12:25	19.0	11.09	142	8.71
1		19.1	11.18	—	
2		18.9	11.30	—	
3		17.7	13.43	138	8.85
4		12.1	14.18	—	
5		9.2	6.20	—	
6		8.1	4.04	116	7.23
7		7.4	3.46	—	—
8		6.8	3.54	—	—
9		6.5	3.70	112	7.41
10		6.4	4.18	—	—
11		6.2	4.55	—	—
12		6.1	4.40	110	7.45
13		6.1	4.37	—	—
14		6.1	3.63	—	—
14.5 ~~15~~		6.0	0.70	112	7.45
16					
17					
	DUP @	12 M			
	CHL a	DUP @ 0 M			

DEPTH MEASURED 5.0

Comments:

pH 7.31
~~10.45 @ 19.3°C~~
7.06

Lake Sawyer Field Sheet

Samplers: Del F. Bob S.

Date: 6-9-94

Secchi Depth (m): 3.80

Weather:
Current Sunny 60°

Zooplankton Haul Depth (m): 16 M

Past 48hrs PC-Showers-Sun

Phytoplankton Sample: .5, 1.5, 2.5, & 3.5 M
↳ & chl a comp

Station: A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:00	19.1	10.62	142	8.87	(sample)
1		18.6	10.77	—	—	
2		18.3	10.87	—	—	
3		17.3	11.85	140	8.60	(sample)
4		15.4	13.59	—	—	
5		11.4	10.74	—	—	
6		9.1	4.18	110	7.13	(sample)
7		7.7	1.90	—	—	
8		7.0	2.46	—	—	
9		6.6	2.54	112	7.37	(sample)
10		6.4	2.64	—	—	
11		6.3	2.41	—	—	
12		6.2	2.19	111	7.35	(sample)
13		6.2	2.05	—	—	
14		6.2	1.83	—	—	
15		6.1	1.64	111	7.47	[redacted]
16		6.1	0.37	—	—	—
17	11:00	—	—	115	7.58	(sample)

Comments: SAWYER A DUP @ 4M
MAX Z = 17.5
SAWYER A (chl a Dup) = COMP

Lake Sawyer Field Sheet

Samplers: _____

Date: 6-9-94

Secchi Depth (m): 4.0 M

Weather:
Current _____

Zooplankton Haul Depth (m): 13.5 M *

Past 48hrs _____

Phytoplankton Sample: 0.5, 1.5, 2.5, & 3.5 1

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	12:55	19.7	10.85	140	9.30
1		18.4	11.06	—	—
2		18.2	11.08	—	—
3		17.9	11.02	140	9.09
4		14.2	15.49	—	—
5		11.3	10.55	—	—
6		9.3	5.28	122	7.70
7		8.2	3.38	—	—
8		7.3	2.08	—	—
9		6.7	2.41	117	7.59
10		6.4	3.04	—	—
11		6.3	3.28	—	—
12		6.2	3.13	114	7.76
13		6.2	2.63	—	—
14		6.1	0.28	—	—
14.5 ~~15~~				120	7.85
~~16~~ 15	13:40	6.0	0.06		
17					

Comments: SAWYER B DUP = SURFACE
chla DUP = SURFACE
MAX Z = 15 M

BOTTOM SAMPLE TAKEN @ 14.5 M

* Appears to be much greater densit of critters @ this st compared to A.

Lake Sawyer Field Sheet

Samplers: Del F.
Bob S.

Date: 6-9-94

Secchi Depth (m): 4.25 m

Weather:
Current —

Zooplankton Haul Depth (m): —

Past 48hrs —

Phytoplankton Sample: —

Station: C

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	14:00	19.2	10.76	142	9.50	(sample
1		18.5	11.17	—	—	
2		18.1	11.19	—	—	
3		17.7	11.18	139	9.40	(sample
4		13.2	15.43			
5		10.08	9.55			
6		9.4	4.09	122	8.06	(sample
7		8.4	2.02			
8	1420	7.3	0.48			
9						
10	bottom = 8.0 m					
11						
12						
13						
14						
15						
16						
17						

Comments:

Lake Sawyer Field Sheet

Samplers: _____

Date: 6-9-94

Secchi Depth (m): 4.50

Weather:
Current _____

Zooplankton Haul Depth (m): —

Past 48hrs _____

Phytoplankton Sample: —

Station: D

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:30	19.6	10.84			(sample)
1		18.8	11.29	—	—	
2		17.9	11.42	—	—	
3		17.1	11.34	145	8.62	(sample)
4		15.4	10.95	—	—	
5		11.7	10.87	—	—	
6		9.0	3.10	121	7.45	(sample)
7		7.4	1.33	—	—	
8		6.8	1.90	—	—	
9		6.4	2.20			
9.5 ~~40~~	1150	6.5	0.70			
11	(* bottom	= 9.7 m)				
12						
13						
14		* We	prob. were	on the	30' (9-9.5 m)	
15		contour	on the	map.	Next	
16		time,	need to	find	6.5± contour	
17		(so	6m sample	is closer	to bottom)	

Comments:

Lake Sawyer Field Sheet

Samplers: BOB STORER / DEE FELD

Date: 6/23/94

Secchi Depth (m): 4.0

Weather:
Current CLOUDY 60°F

Zooplankton Haul Depth (m): FROM → TO SURF.

Past 48hrs SUNNY 75-80°F

Phytoplankton Sample: COMP. (0 - 3.5M)

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:10	21.2	10.81	149	8.55	(sample)
1		21.3	10.79	—	—	
2		21.3	10.92	—	—	
3		19.1	13.62	141	8.09	(sample)
4		17.0	15.19	—	—	
5		13.4	14.90	—	—	
6		9.6	4.57	122	7.00	(sample)
7		8.0	1.80	—	—	
8		7.1	1.45	—	—	
9		6.8	1.48	113	6.99	(sample)
10		6.5	1.57	—	—	
11		6.4	1.43	—	—	
12		6.3	1.29	111	7.00	(sample)
13		6.3	1.20	—	—	
14		6.2	1.00	—	—	—
15		6.2	.30	112	7.00	(sample)
16		6.2	.31	—	—	
17		—	—	117	7.01	(sample)
	BOTTOM = 17.5					
	BOTTOM SAMPLE = 17					
	SAWYER A DUP = 17 / CHLOR A DUP = COMP.					

Comments: pH CALIB

pH7 = 7.00 @ 19.4°C

pH10 = 10.06 @ 19.4°C

SAWYER A

SAMPLED FOR BENTHICS (DEEP STA

LINED UP W/SET OF ... INFROM ... (SHALLO

Lake Sawyer Field Sheet

Samplers: Bob S. / Der F.

Date: 6/23/94

Secchi Depth (m): 4.0

Weather:
Current

Zooplankton Haul Depth (m): 13.5 M

Past 48hrs

Phytoplankton Sample: (.5, 1.5, 2.5, 3.5 M

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	13:24	21.0	11.14	149	8.63
1		21.2	11.18	—	—
2		21.1	11.21	—	—
3		21.0	11.20	147	8.54
4		16.8	16.50	—	—
5		12.8	15.05	—	—
6		10.1	6.75	123	7.13
7		8.5	2.84	—	—
8		7.4	1.55	—	—
9		6.9	1.74	112	7.00
10		6.6	1.93	—	—
11		6.4	2.49	—	—
12		6.3	2.52	111	7.09
13		6.3	1.85	—	—
14		6.2	.32	—	—
14.5 ~~15~~	1417	6.1	.33	115	7.14
16					
17					
	BOTTOM = 15.0 M / BOTTOM SAMPLE @ 14.5				
	SAWYER B DUP = 3 M / CHL a DUP = COMP.				

Comments: pH = 6.90 & 10.10 @ 19.5°C

Lake Sawyer Field Sheet

Samplers: DEZ FEILD
BOB STORER

Date: 7/7/94

Secchi Depth (m): 4.7 m

Weather:
Current SUNNY 70°C

Zooplankton Haul Depth (m): 16.0 M

Past 48hrs SUNNY 70°C

Phytoplankton Sample: 5, 1.5, 2.5, 3.5, & 4.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	9:40	20.3	10.39	150	8.42	(sample)
1		20.0	10.41	—	—	
2		19.7	10.44	—	—	
3		19.2	10.60	148	8.30	(sample)
4		17.4	13.18	—	—	
5		14.5	14.85	—	—	
6		10.9	5.44	129	7.31	(sample)
7		8.8	0.96	—	—	
8		7.5	0.49	—	—	
9		7.0	0.50	120	7.33	(sample)
10		6.6	0.33	—	—	
11		6.4	0.04	—	—	
12		6.3	0.04	118	7.42	(SMPLE)
13		6.3	0.05	—	—	
14		6.2	0.05	—	—	
15		6.2	0.05	118	7.44	(sample)
16		6.2	0.03	—	—	
17	10:20	—	—	120	7.47	(sample)

Comments: pH CALIB:
pH 7 = 7.08
pH 10 = 10.02
@ 23.4°C

SAWYER A DUP = 5M
Chl a DUP = 0 M
BOT. DEPTH = 17.5
BOTTOM SAMPLED @ 17.0

Lake Sawyer Field Sheet

Samplers: Del T.
Bob S.

Date: 7/7/94

Secchi Depth (m): 4.0

Weather:
Current 75 Sunny

Zooplankton Haul Depth (m): 13.5 M

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, & 3

Station: Sawyer B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	12:25	20.6	10.54	150	8.50	(sample
1		19.6	10.69	—	—	
2		19.4	10.67	—	—	
3		19.3	10.72	150	8.34	(sample)
4		17.8	14.55	—	—	
5		13.5	12.55	—	—	
6		10.3	4.40	135	7.20	(sample)
7		9.0	1.25	—	—	
8		7.6	0.61	—	—	
9		7.1	0.61	120	7.16	(sample
10		6.8	0.62	—	—	
11		6.5	1.48	—	—	
12		6.4	1.70	120	7.12	(sample
13		6.3	0.80	—	—	
14		6.2	0.06	—	—	
14.5 ~~15~~	1300	6.2	0.05	120	7.27	(sample
16						
17						
			(14.5 M sample had sulphur			
			rotten egg smell to it)			

Comments: pH 7 = 7.05
pH 10 = 9.95
@ 30.5 °C

Dup = 6 M
Chl Dup = 0 M
Bottom = 15

Lake Sawyer Field Sheet

Samplers: Del F. Bob S.

Date: 7-7-94

Secchi Depth (m): 4.0

Weather:
Current 75°F Sunny

Zooplankton Haul Depth (m): —

Past 48hrs

Phytoplankton Sample: —

Station: SAWYER C

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	13:20	21.1	10.18	150	8.06	(sample)
1		19.7	10.65			
2		19.3	10.87			
3		19.2	10.92	148	8.04	(sample)
4		18.3	14.35			
5		12.9	10.93			
6	13:35	10.5	4.22	130	7.04	(sample)
7	↓	9.4	0.81			
8						
9						
10						
11						
12						
13						
14			* more phytos and			
15			zoos at 6M than 3M			
16						
17						

Comments:

* obtained macrophytes samples for 7/9 L. Steward workshop @ (L. Killarney) up near both inlets to L. Sawyer

BOTTOM = 7 M
SAMPLED @ 6 M

Lake Sawyer Field Sheet

Samplers: [illegible]
Bob S.

Date: 7/7/94

Secchi Depth (m): 4.4

Weather:
Current 70°F (Sunny)

Zooplankton Haul Depth (m): —

Past 48hrs

Phytoplankton Sample: —

Station: SAWYER D

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:00	20.6	10.42	150	8.53	(sample)
1		20.3	10.44	—		
2		19.9	10.51	—		
3		19.2	10.59	149	8.34	(sample)
4		17.3	10.30	—		
5		14.5	12.62	—		
6	1112	11.5	5.65	130	7.29	(sample)
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Comments: bottom = 7.0 M

Lake Sawyer Field Sheet

Samplers: BOB STORER
DEE FEILD

Date: 7/21/94

Secchi Depth (m): 4.7

Weather:
Current SUNNY 75°F

Zooplankton Haul Depth (m): 16.0

Past 48hrs SUNNY 70-100°F

Phytoplankton Sample: 1, 2, 3, & 4 m

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:20	25.6	9.90	170	7.94	(sample)
1		25.0	9.90	—	—	
2		24.8	10.10	—	—	
3		23.3	10.81	162	7.97	(sample)
4		20.2	14.30	—	—	
5		16.4	14.83	—	—	
6		12.3	6.21	138	7.25	(sample)
7		9.2	1.09	—	—	
8		7.6	0.22	—	—	
9		6.9	0.22	120	7.08	(sample)
10		6.6	0.23	—	—	
11		6.6	0.22	—	—	
12		6.5	0.23	120	7.14	(sample)
13		6.4	0.22	—	—	
14		6.3	0.22	—	—	
15		6.3	0.24	118	7.15	(sample)
16		6.3	0.23	—	—	
17	11:15	—	—	138	7.17	(sample)
	MAX DEPTH = 17.3					
	SAMPLE @ 17.0					

Comments: DUP = 6M
Chl DUP = COMP

PH CALIB 7.03
10.02 @ 24.5

M

Lake Sawyer Field Sheet

Samplers: Bob S. / Del F.

Date: 7-21-94

Secchi Depth (m): 4.5

Weather:
Current

Zooplankton Haul Depth (m): 13.5M

Past 48hrs

Phytoplankton Sample: 1, 2, 3, 4, & [redacted] M

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:30	25.4	10.21	170	8.11	(sample)
1		25.0	10.24			
2		24.7	10.27			
3		23.8	10.48	170	7.99	(sample)
4		19.5	15.39			
5		15.4	15.10			
6		12.1	6.99	134	7.36	(sample)
7		10.0	1.90			
8		8.2	0.60			
9		7.3	0.41	125	7.20	(sample)
10		6.7	0.50			
11		6.5	0.82			
12		6.4	0.55	121	7.26	(sample)
13		6.4	0.29			
14		6.3	0.29			(sample)
~~15~~ 14.5		6.2	0.29	129	7.27	
16						
17						
	MAX DEPTH = 15.0 m					
*	SAMPLED @ 14.5					

Comments: Dup = 12 m
chl Dup = COMP

BOB S.

Date: 8/4/94

Secchi Depth (m): 4.6

Weather:
Current CLOUDY 60°F

Zooplankton Haul Depth (m): 16.0

Past 48hrs CLOUDY 75°F

Phytoplankton Sample: 1, 2, 3, & 4 m

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	9:30	23.8	10.33	163	8.05
1		23.8	10.22		
2		23.8	10.23		
3		23.8	10.22	161	7.99
4		21.4	12.70		
5		18.0	14.60		
6		12.6	5.20	133	7.12
7		10.0	0.48		
8		7.9	0.07		
9		7.0	0.10	119	7.02
10		6.9	0.08		
11		6.7	0.09		
12		6.5	0.14	117	7.02
13		6.5	0.13		
14		6.4	0.13		
15		6.3	0.16	114	7.04
16		6.3	0.15		
17.0	10:10			121	7.08

Comments: pH = 7.04
10.03 @ 21.5°C

Dup = 17. chla Dup = COMP = (1.0, 2.0, 3.0, 4.0 m)

BOTTOM = 17.5 m SAMPLED @ 17.0 m

Date: 8/4/94

Secchi Depth (m): 4.8

Weather:
Current

Zooplankton Haul Depth (m): 13.5

Past 48hrs

Phytoplankton Sample: 1, 2, 3, & 4 m

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:40	23.6	10.30	162	8.09
1		23.7	10.09		
2		23.7	10.09		
3		23.7	10.12	161	8.05
4		21.9	12.95		
5		16.9	13.30		
6		12.5	5.36	133	7.15
7		10.1	0.93		
8		8.5	0.23		
9		7.3	0.21	118	7.02
10		6.9	0.24		
11		6.6	0.25		
12		6.5	0.26	115	7.01
13		6.4	0.25		
14		6.3	0.26		
14.5 ~~15~~	1110	6.3	0.27	130	7.10
16					
17					

Comments:

Dup = 6 m chl a DUP = 0 m

BOTTOM = 15.0 m, SAMPLED @ 14.5

* Benthics sampled @ SAWYER B and near SAWYER C (Littoral @ 6.0 m

Lake Sawyer Field Sheet

Samplers: BOB S. / DEE F.

Date: 8/18/94

Secchi Depth (m): 5.1

Weather:
Current PARTLY CLOUDY + SUNNY / 75°

Zooplankton Haul Depth (m): 16.0

Past 48hrs SAME

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, & 4.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:15	22.8	8.14	160	8.26	(Sample)
1		22.8	7.86			
2		22.7	7.85			
3		22.7	7.98	160	8.10	(Sample)
4		21.9	8.65			
5		18.1	9.08			
6		13.3	3.90	140	7.25	
7		10.4	1.12			
8		8.0	0.90			
9		7.2	0.93	120	7.07	(Sample)
10		6.9	0.97			
11		6.7	0.98			
12		6.6	0.97	120	7.17	(Sample)
13		6.5	0.86			
14		6.4	0.85			
15		6.4	0.85	123	7.10	(Sample)
16		6.3	0.79			
17				125	7.13	(Sample)
	11:00					

Comments: pH = 10.01
7.04 @ 22°C

Dup @ 3M
Chla Dup = Comp

BOTTOM = 17.5

Lake Sawyer Field Sheet

Samplers: Bob S. / Del F.

Date: 08-18-94

Secchi Depth (m): 4.8

Weather:
Current

Zooplankton Haul Depth (m): 13.5

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, &

Station: SAWYERB

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	12:35	23.5	7.65	165	8.29	(samp
1		22.9	7.74			
2		22.7	7.97			
3		22.6	8.00	162	8.15	(sampl.
4		22.3	7.94			
5		17.2	9.05			
6		13.5	4.45	138	7.07	(sample
7		8.7	0.65			
8		7.3	0.64			
9		6.8	0.58	120	7.16	(samp.
10		6.7	0.60			
11		6.6	0.58			
12		6.5	0.58	119	7.12	(samp
13		6.4	0.59			
14		6.4	0.58			
15		6.3	0.56	132	7.13	(sampl.
16						
17						

Comments:

Dup = 0m
Chl a Dup = 0m

Lake Sawyer Field Sheet

Samplers: Bob S. / Del F.

Date: 8-18-94

Secchi Depth (m): 4.6M

Weather:
Current

Zooplankton Haul Depth (m): —

Past 48hrs

Phytoplankton Sample: —

Station: SAWYER 1

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:43	23.1	8.03	163	8.33	(sample
1		22.9	7.82	~~[illegible]~~	~~8.00~~	
2		22.7	7.69			
3		22.6	7.62	162	8.00	(sample
4		22.3	7.62			
5		17.4	10.10			
6	NOON	13.8	3.88	140	7.16	(sample
7 =	BOTTOM					
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Comments:

Lake Sawye: Field Sheet

Samplers: Bob S. / Del F

Date: 8-18-94

Secchi Depth (m): 4.9

Weather:
Current

Zooplankton Haul Depth (m): —

Past 48hrs

Phytoplankton Sample: —

Station: SAWYER D

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:13	23.0	7.77	163	8.26	(sample
1		22.9	7.50			
2		22.8	7.67			
3		22.7	7.55	161	8.07	(sample
4		21.7	8.44			
5		18.0	8.70			
6	11:30	13.0	2.91	140	7.18	(sample
7						
8						
9 =	BOTTOM					
10						
11						
12						
13						
14						
15						
16						
17						

Comments:

VEL 1.1 DUP 2.

Date: 9/8/94

Secchi Depth (m): 5.2

Weather:
Current LIGHT DRIZZLE/60°F

Zooplankton Haul Depth (m): 15.0 m

Past 48hrs SUNNY 65°F

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 45

Station: SMUYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:50 10:10	20.6 20.7	8.82 9.36	155	8.20
1		20.7	8.87		
2		20.7	8.81		
3		20.7	8.83	152	8.16
4		20.2	8.76		
5		19.1	8.33		
6		14.6	3.15	142	7.06
7		10.7	0.58		
8		8.9	0.52		
9		7.8	0.52	120	7.00
10		7.1	0.45		
11		6.7	0.46		
12		6.6	0.47	119	7.03
13		6.5	0.47		
14		6.4	0.47		
15		6.4	0.47	121	7.07
16	10:50	6.3	0.48	128 ~~125~~	7.10 ~~7.01~~
17					

Comments: pH 7 = 7.06 @ 18.5°C
10 = 10.06 @ 18.8°C

DO ~~8.43~~ 8.46 @ 18.1°C 10:05

MAX Z = 16.75

DUP = 12 m Chl a DUP = COND BOTTOM SAMPLED @ 16.0

Date: 9/8/94

Secchi Depth (m): 5.3

Weather:
Current: RAIN

Zooplankton Haul Depth (m): 12 M

Past 48hrs:

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4.5

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	11:15	20.5	9.67	152	8.30
1		20.5	9.40		
2		20.5	9.35		
3		20.4	9.28	152	8.20
4		20.4	9.21		
5		19.5	8.99		
6		14.6	4.50	143	7.22
7		11.6	0.88		
8		9.1	0.56		
9		7.7	0.56	122	7.08
10		7.1	0.57		
11		6.8	0.58		
12		6.7	0.57	118	7.14
13		6.5	0.57		
13.5 ~~14~~	11:45	6.4	0.56	127	7.14
~~15~~					
16					
17					

Comments:

Dup = 3 M Chl a Dup = Comp.

MAX Z = 14.25 M Bottom Sample @ 13.5 (m)

Lake Sawyer Field Sheet

Samplers: BOB S. / DEE F.

Date: 9/27/94

Secchi Depth (m): 6.1 m

Weather:
Current SUNNY 70°F
Past 48hrs SUNNY 80°F

Zooplankton Haul Depth (m): 14.0 m

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4.5, 5.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	9:55	20.0	8.74	150	8.19	(sample)
1		20.0	8.68			
2		20.0	8.63			
3		20.0	8.75	150	8.04	([redacted]
4		19.9	8.70			
5		18.2	6.43			
6		15.6	1.51	140	6.91	(sample)
7		11.8	0.07			
8		9.1	0.03			
9		7.7	0.02	120	6.99	(sample)
10		7.1	0.02			
11		6.9	0.01			
12		6.7	0.01	118	6.99	(sample)
13		6.6	0.01			
14		6.5	0.01			
* 15	10:30	6.4	0.01	122	7.02	(sample)
16						
17						

Comments:

pH 10 = 10.05 @ 22.2°C

pH 7 = 7.06 @ 22.1°C

DUP = 17 CHL A DUP = COMD

9:50 AM
DO CALIB 8.50 mg/L @ 18.9°C

* 15 M SMELLS OF H_2S.

* BOTTOM = 16.5 M

12065/ Delt.

Date: 9-27-94

Secchi Depth (m): 6.0

Weather:
Current

Zooplankton Haul Depth (m): 12.5

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4.5, 5.5 M

Station: SAWYERB

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	11:20	20.1	8.72	150	8.30	(Sample)
1		19.9	8.75			
2		19.8	8.76			
3		19.8	8.77	150	8.25	(Sample)
4		19.7	8.80			
5		18.6	7.47			
6		15.4	2.50	143	7.08	(Sample)
7		12.0	0.10			
8		9.1	0.06			
9		8.0	0.04	125	7.04	(sample)
10		~~7.9~~ 7.3	0.05			
11		6.9	0.05			
12		6.8	0.05	119	7.00	(sample)
13		6.6	0.04			
*14	11:45	6.5	0.04			
15						
16						
17						

Comments:

*BOTTOM = 14.0 m
SAMPLED @ 12.0 m

P = 9 m (W/ A DIP - CAMP

Lake Sawyer Field Sheet

Samplers: Ralph S
De F.

Date: 9-27-94

Secchi Depth (m): 5.5M

Weather:
Current: Sunny 70°F

Zooplankton Haul Depth (m): —

Past 48hrs:

Phytoplankton Sample: —

Station: SAWYER C

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	12:05	20.4	8.64	152	8.43	(sample)
1		20.0	8.64			
2		19.9	8.65			
3		19.8	8.67	150	8.06	(sample)
4		19.8	8.66			
5		18.0	6.27			
* 6	12:20	14.9	1.15	142	7.11	(sample)
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Comments:

* BOTTOM = 7M

Lake Sawyer Field Sheet

Samplers: Bob S. / Del F.

Date: 9/27/94

Secchi Depth (m): 5.2 M

Weather:
Current

Zooplankton Haul Depth (m): /

Past 48hrs

Phytoplankton Sample: /

Station: SAWYER D

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:50	20.3	8.76	152	8.18	(sample)
1		20.2	8.76			
2		20.1	8.81			
3		20.1	8.79	152	8.03	(sample)
4		19.7	8.43			
5		18.5	6.95		7.02	
6 *	11:05	15.3	1.12	143	7.02	(sample)
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Comments: * BOTTOM = 8.2 M

TSK STEVE ARNIT CHART DROP

Lake Sawyer Field Sheet

Samplers: Dee F. / BOB S.

Date: 10/13/94

Secchi Depth (m): 5.6

Weather:
Current HIGH CLOUDS, 50°F

Zooplankton Haul Depth (m): 0.5, 1.5, 2.5, 3.5, 4.5, 5.

Past 48hrs SUNNY 65°F

Phytoplankton Sample: 15.0 m

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:09	15.6	9.09	139	7.66
1		15.7	9.22		
2		15.7	9.22		
3		15.7	9.22	138	7.66
4		15.7	9.26		
5		15.6	9.28		
6		15.4	8.51	138	7.39
7		12.5	0.26		
8		9.6	0.17		
9		8.0	0.16	121	6.97
10		7.3	0.17		
11		6.9	0.18		
12		6.8	0.20	128	6.98
13		6.6	0.19		
14		6.5	0.20		
15		6.4	0.20	122	6.98
16	10:45	6.4	0.20		
17					
				Benthics sampled at Sawyer E (DOE1) @ 6 M	

Comments:

Dup = 3 m

-hl a Dup = Comp

MAX Z = 16.5

BOTTOM SAMPLES @ 15.0

pH CALIB.
10.16 @ 13.1 °C
7.07 @ 13.1 °C

D.O. CALIB

Lake Sawyer Field Sheet

Samplers: _____

Date: 10/13/94

Secchi Depth (m): 5.6

Weather:
Current _____

Zooplankton Haul Depth (m): 12.5m

Past 48hrs _____

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4.5, 5.

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	1:00	15.7	9.18	138	7.74
1		15.7	9.19		
2		15.6	9.13		
3		15.5	9.15	137	7.76
4		15.5	9.10		
5		15.5	9.14		
6		15.5	9.17	137	7.72
7		12.7	0.31		
8		9.3	0.05		
9		7.8	0.06	120	7.03
10		7.2	0.06		
11		6.9	0.06		
12		6.8	0.07	118	7.10
13		6.7	0.07		
14	1:30	6.6	0.07		
15					
16					
17					

Benthics sampled @ SAWYER F (near outlet channel) D = 5M

Comments:

S SMALL @ 9m

up = 6m

MAX Z = 14.0 m

BOTTOM SAMPLED @ 12.0 m

Lake Sawyer Field Sheet

Samplers: _____

Date: 11/17/94

Secchi Depth (m): 3.9

Weather:
Current CLOUDY 35°C

Zooplankton Haul Depth (m): 15.0

Past 48hrs RAINY/COLD

Phytoplankton Sample: 0.5, 1.5, 2.5, & 3.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:10	8.3	8.79	112	7.50
1		8.4	8.74		
2		8.4	8.70		
3		8.4	8.82	110	7.53
4		8.4	8.84		
5		8.3	8.77		
6		8.3	8.76	111	7.52
7		8.3	8.77		
8		8.3	8.74		
9		8.3	8.75	111	7.49
10		UNSTABLE (2-7)			
11		7.6	0.29		
12		7.1	0.29	118	7.00
13		6.8	0.23		
14		6.7	0.22		
15	10:45	6.5	0.23	118	7.04
16					
17					

6 m & MARKED Dup.

Comments:

- Dup = 3 m
- ~~AHU Dup - Comp~~
0, 3, 6, 9 LOT OF PHYTO & ZOOS (HIGHEST @ 6)

- H_2S SMELL @ 12 m + A SMALL AMOUNT OF ALGAE.
- H_2S VERY STRONG @ 15 m

pH CALIB 10.12 @ 15.6
DO 11.74

MAX DEPTH = 16.5
SAMPLED TO 16 m

Date: 11/17/94

Weather:
Current
Past 48hrs

Station: SAWYER B

BOB S.

Secchi Depth (m): 3.0

Zooplankton Haul Depth (m): 13.0

Phytoplankton Sample: 0.5, 1.5, 2.5, & 3.5

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	11:15	8.4	8.81	112	7.55
1		8.5	8.68		
2		8.5	8.66		
3		8.5	8.61	110	7.56
4		8.5	8.54		
5		8.5	8.65		
6		8.5	8.63	110	7.55
7		8.5	8.20		
8		8.5	8.24		
9		8.4	5.55	112	7.35
10		7.9	0.45		
11		7.3	0.11		
12		7.1	0.11	118	7.07
13		6.8	0.11		
14	11:45	6.7	0.11	122	7.07
15					
16					
17					

(ec & pH @ 13.5)

EXTRA CHL TAKEN @ 6 M MARKED AS DUP

Comments:

Dup = 9 m

H_2S @ 12 m

MAX DEPTH = 14.25.
(SAMPLED at 13.5 M instead of 15)

Lake Sawyer Field Sheet

Samplers: Der F. / Bob S.

Date: 12/21/94

Secchi Depth (m): 4.1 M

Weather: Current CLOUDY/PARTLY SUNNY

Zooplankton Haul Depth (m): 16.0 m

Past 48hrs 2.5-3" RAIN

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:30	5.6	9.69	101	7.15
1		5.3	9.63		
2		5.2	9.64		
3		5.1	9.43	103	7.17
4		5.0	9.42		
5		5.0	9.40		
6		5.0	9.43	102	7.20
7		5.0	9.35		
8		5.0	9.27		
9		4.9	9.12	103	7.17
10		4.9	9.07		
11		4.9	8.97		
12		4.9	8.84	104	7.11
13		4.8	8.33		
14		4.8	8.27		
15		4.7	8.22	106	7.05
16	1100	4.7	7.58		
17				125	6.88

ZOOS PRESENT TO 15M (LOTS @ 17 M)
DUP = 15 M CHL. DUP = COMP MAX. D = 17.4 M

Comments:

LOTS OF ALGAE ON SURFACE & THROUGHOUT WATER COLUMN.

D.O. CALIB 10.43 @

pH CALIBRATED [illegible]

Lake Sawyer Field Sheet

Samplers: Del F. Bob S.

Date: 12/21/94

Secchi Depth (m): 4.5

Weather:
Current

Zooplankton Haul Depth (m): 13 m

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4.

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	11:30	5.6	9.77	101	7.41
1		5.4	9.82		
2		5.1	9.68		
3		5.1	9.65	102	7.35
4		5.1	9.62		
5		5.1	9.57		
6		5.0	9.44	101	7.34
7		5.0	9.41		
8		5.0	9.40		
9		5.0	9.41	102	7.32
10		5.0	9.27		
11		5.0	9.17		
12		5.0	9.13	101	7.34
13		4.9	9.02		
14		4.9	8.82		
14.5 ~~15~~	12:00	4.9	8.60	102	7.32
16					
17					

MAX DEPTH 15.0 m

Dup = 6

Comments: ALOT OF FLOATING CLUMPS OF BLUE-GREEN ALGAES.

Lake Sawyer Field Sheet

Samplers: Kez F. / Bob S.

Date: 1/19/95

Secchi Depth (m): 4.1

Weather: Current SUNNY 40° F

Zooplankton Haul Depth (m): 16 m

Past 48hrs RAIN / CLEARING

Phytoplankton Sample: 1, 2, 3, & 4 m

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:30	4.3	11.60	98	7.47
1		4.2	11.61		
2		4.2	11.70		
3		4.3	11.66	99	7.40
4		4.3	11.73		
5		4.3	11.73		
6		4.3	11.78	99	7.40
7		4.3	11.84		
8		4.2	11.86		
9		4.2	11.89	98	7.46
10		4.2	11.94		
11		4.2	11.93		
12		4.2	11.75	99	7.39
13		4.1	10.93		
14		4.3	10.30		
15		4.3	9.19	110	7.19
16		4.3	9.06		
17	11:05	—	—	110	7.00

Comments: Dup = 9 m, CHI Dup = Comp

MAX Z = 17.5 BOTTOM SAMPLED @ 17.0 m

ZOOP PHYCLNT @ 17.0 m

Lake Sawyer Field Sheet

Samplers: Vert./Bob S.

Date: 1/19/95

Secchi Depth (m): 4.8

Weather:
Current

Zooplankton Haul Depth (m): 13.5M

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, + 4.5M

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	11:30	4.2	11.71	95	7.59
1		4.1	11.69		
2		4.1	11.77		
3		4.1	11.79	98	7.60
4		4.1	11.90		
5		4.1	11.85		
6		4.1	11.85	98	7.59
7		4.1	11.88		
8		4.1	11.88		
9		4.1	11.88	98	7.61
10		4.1	11.93		
11		4.1	11.92		
12		4.1	11.92	97	7.58
13		4.1	11.95		
14	12:00	4.1	11.96	95	7.60
15					
16					
17					

Comments:

DO = 3m, CHL DUP = COMP

LOT OF ZOOPS HERE COMPARED TO SAWYER A. (It appears to be 3-4 X more)

[illegible]

Del F.

Date: 2-27-95

Secchi Depth (m): 3.75

Weather:
Current SUNNY 40°F

Zooplankton Haul Depth (m): 16.0

Past 48hrs SUNNY

Phytoplankton Sample: Comp: 0.5, 1.5, 2.5, 3.5m

Station: CAYUGA A

John Davies
Lake Staff gage = 5.58 ± .01 @ 1112

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH	
0	10:25	7.5	12.79	93	—	*
1		7.4	12.61	—		
2		5.9	13.25	—		
3		5.3	13.30	101		
4		5.2	13.24	—		
5		5.0	13.19	—		
6		5.0	13.13	100		
7		5.0	13.02	—		
8		5.0	12.95	—		
9		5.0	12.95	100		
10		5.0	12.73	—		
11		4.9	12.54	—		
12		4.9	12.05	101		
13		4.9	11.94	—		
14		4.8	11.85	—		
15		4.8	11.36	101		
16		4.8	10.90	—		
17	1105	—	—	108		

Outlet weir gage = 5.03 ± removed debris from upstr. Culvert result gage = 5.00 ± @ 1236

Comments: * PH CALIB. METER DOESN'T WORK

Dup = 0.5m BOTTOM SAMPLED @ 17.0m DO CALIB 11:58

Dup = 0.5m MAX Z = 17.5m

OF PLANKTON @ 17m (PHYTO/ZOO?)

Lake Sawyer Field Sheet

Samplers: Del F. / Bob S.

Date: 2/27/95

Secchi Depth (m): 4.50

Weather:
Current

Zooplankton Haul Depth (m): 13.5 m

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, & 4.0

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	11:40	7.3	12.20	100	Meter not working
1		7.0	11.97	—	
2		6.5	12.08	—	
3		6.2	12.10	100	
4		6.1	12.11	—	
5		5.9	12.22	—	
6		5.3	12.39	101	
7		5.1	12.25	—	
8		5.0	12.34	—	
9		5.0	12.55	101	
10		5.0	12.53	—	
11		4.9	12.43	—	
12		4.9	12.13	101	
13		4.9	11.40	—	
14		4.9	11.24	—	
14.5, ~~15~~	1215	4.9	9.15	102	
16					
17					

Comments: Dup = 12 m BOTTOM SAMPLED @ 14.5
CHL Dup = Comp MAX Z = 15.0

Lake Sawyer Field Sheet

Samplers: BOB S. / DEL T.

Date: 3/14/95

Weather: Current CLOUDY/WINDY 55°F

Past 48hrs RAIN

Station: SAWYER A

Secchi Depth (m): 4.3

Zooplankton Haul Depth (m): 16.0 m

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, & 4.5

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	9:50	7.3	11.64	102	7.46
1		7.3	11.62		
2		7.2	11.60		
3		7.2	11.55	104	7.39
4		7.2	11.51		
5		7.1	11.49		
6		6.9	11.50	102	7.42
7		6.7	11.35		
8		6.4	11.13		
9		6.2	10.89	102	7.37
10		6.0	10.70		
11		6.0	10.68		
12		6.0	10.63	102	7.36
13		6.0	10.55		
14		6.0	10.32		
15		5.6	10.26	102	7.34
16		5.9	10.14		
17	1020			102	7.30

Comments:

= 15 m BOTTOM Z = 17.5

CHL = COMP SAMPLED @ 17.0

pH CALIB:

7.09 @ 20.9°C

10.06 @ 20.1°C

Lake Sawyer Field Sheet

Samplers: DOD J.
Der F.

Date: 3/14/95

Secchi Depth (m): 4.3

Weather:
Current WINDY!

Zooplankton Haul Depth (m): 13.5

Past 48hrs

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, 4

Station: SAWYER B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	10:55	7.7	11.78	101	7.58
1		7.7	11.82		
2		7.6	11.92		
3		7.6	12.18	105	7.53
4		7.5	12.27		
5		7.4	12.33		
6		7.3	12.40	102	7.50
7		7.2	12.44		
8		6.2	12.07		
9		6.0	11.92	100	7.40
10		5.9	11.68		
11		5.9	11.60		
12		5.9	11.55	101	7.40
13		5.9	11.38		
14		5.9	11.15	100	7.40
15	11:18	5.9	10.80		
16					
17					

Comments: Dup = 3 BOTTOM Z = 15.0
chl Dup = Comp SAMPLED @ 14.0

TS OF 200$@ 3m

Sharon Lk.

Date: 4/20/95

Secchi Depth (m): 4.2 m

Weather:

Current Cloudy

Zooplankton Haul Depth (m): 16 m

Past 48hrs PC/Showers

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5 + 4.5

Station: SAWYER A

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	1003	11.0	11.34	115	8.05
1	1006	11.0	11.19		
2	1008	11.0	11.40		
3	1011	11.0	11.40	112	7.79
4	1012	10.6	10.98		
5	1014	9.7	10.27		
6	1016	8.6	8.44	115	7.46
7	1019	8.1	7.80		
8	1021	7.4	7.30		
9	1024	7.3	7.06	110	7.31
10	1027	7.2	6.85		
11	1030	7.1	6.91		
12	1031	7.1	6.53	108	7.36
13	1034	7.1	6.57		
14	1035	7.0	6.58		
15	1037	7.0	6.52	108	7.40
16					
17				106	7.37

Comments:

SawyerA Duplicate taken at 12 meters

Bottom Sample at 17m; chl a duplicate = composite

Date: 4/20/95

Secchi Depth (m): 4.1 m

Weather:
Current Partly Sunny

Zooplankton Haul Depth (m): 13.5

Past 48hrs PC / Showers

Phytoplankton Sample: 0.5, 1.5, 2.5, 3.5, + 4.5

Station: Sawyer B

Depth (m)	Time	Temp (C)	DO (mg/L)	Cond (umhos/cm)	pH
0	1109	11.5	11.60	115	8.19
1	1112	11.4	11.70		
2	1114	11.4	11.45		
3	1117	11.2	11.47	110	8.17
4	1119	11.1	11.19		
5	1121	9.9	10.00		
6	1122	9.1	9.35	115	7.64
7	1124	8.3	8.24		
8	1125	7.7	7.41		
9	1127	7.4	7.53	110	7.49
10	1129	7.2	7.07		
11	1130	7.1	7.02		
12	1132	7.1	6.77	105	7.43
13	1133	7.0	6.55		
14	1134	7.0	6.40	~~105~~	~~7.49~~ ~~14.5~~
~~15~~ 14.5	1136	6.9	5.72	105	7.49
16					
17					

Comments:

Sawyer B Duplicate = Surface ; Chl a duplicate @ Surface

Bottom Sample 14.5 meters

Lake Sawyer Field Sheet
Date: 11/18/95

Weather:
Current: CLOUDY 55°F

Samplers: DEZ F.

Past 48hrs: RAINY (0.33")

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	10:50	5.2	8.38	130	6.98
LSIN2 (Rock Cr Morganville Br)	12:00	5.3	9.42	140	7.30
LSIN3 (Rock Cr Abrahms Ave.)	12:45	5.8	9.80	158	7.24
LSIN4 (Rock Cr Morgan St.)	13:00	5.7	11.42	189	7.62
LSIN5 (Black Diamond Lake Outfl)	12:15	4.8	9.20	30	6.55
LSIN6A (Jones Lake Inf at Hwy 169)	13:25	6.5	11.49	48	7.16
LSIN7 (Trib to Ginder Cr (PCCC)	13:45	5.7	12.00	282	8.05
LSIN8 (Ginder Cr. at Hwy 169)	14:00	5.2	11.44	141	7.61
LSIN9 (Ravensdale Cr Mouth)	11:35	7.4	11.50	91	7.37
LSOUT10 (Lake Sawyer Outflow)	14:25	4.5	12.01	98	7.61
Field Rep	LSIN 9				

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 1.78

Rock Cr Inflow
South Staff Gage (LSIN1) = 4.19 OK

Rock Cr Inflow
North Staff Gage = DRY

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.17

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 4.52 OK

Comments: DO CALIB =
9.26 mg/L @ 17.0°C

pH CALIB:
7.07 @ 18.4°C
10.07 @ 18.9°C

Lake Sawyer Field Sheet
Date: 2/18/95

Weather:
Current: RAIN ≅ 0.90" (last 12hrs) Samplers: B.L.S. 1.5" = 14 hrs
↳ + 1.00" (from 5PM – 11:15PM via John Davies phone call)
Past 48hrs: RAIN

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Total = 1.7" (Need to verify!)

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	WDL ✓
LSIN1 (Rock Cr Mouth)	7:15 PM	6.5	No METER	125	8.5	
LSIN2 (Rock Cr Morganville Br)	8:00	7.0		125	8.2	Same as 1st 2.0' (5') 5.0s
LSIN3 (Rock Cr Abrahms Ave.)	8:45	8.0		110	7.7	
LSIN4 (Rock Cr Morgan St.)	9:00	8.0		115	8.0	3.5' 2.75' (5') 4.0s
LSIN5 (Black Diamond Lake Outfl)	8:30	7.0		25	7.4	9.0' 0.75' (5') 10.0s
LSIN6 (Jones Lake Inf at Hwy 169)	9:30	8.5		30*	7.1	9.0' 1.0 (5') 4.0s
LSIN7 (Trib to Ginder Cr (PCCC)	9:50	8.0		240	5-6.5	5.0' 0.75 (5') 3.0 sec
LSIN8 (Ginder Cr. at Hwy 169)	10:30	7.9		70	7.9	8.0' 1.1 (5') 3.5 sec
LSIN9 (Ravensdale Cr Mouth)	7:30	8.1		81	8.1	
LSOUT10 (Lake Sawyer Outflow)	1105	6.5		95	8.1	

Field Rep = 7

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 2.00 49.56

Comments: 4.40 @ 1040 (only light drizzle now)

Rock Cr Inflow
South Staff Gage (LSIN1) = 4.26 / 4.28 (7.25) @ 650 PM

Dup = 7

Rock Cr Inflow
North Staff Gage = Dry

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.21 (730 PM) / 1.28 @ 1050

Rain steady throughout!

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 5.15

Lots of debris in front of both culverts

Chain-of-custody Shows 6

EST. FLOWS ON BACK!

Lake Sawyer Field Sheet
Date: 3/13/95

Page 1 of 1

Weather:
Current: LIGHT RAIN ≈ 50°F

Samplers: DEL F.

Past 48hrs:

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	
LSIN1 (Rock Cr Mouth)	11:00	8.4	9.50	115	7.01	
LSIN2 (Rock Cr Morganville Br)	11:35	7.9	9.74	101	7.20	
LSIN3 (Rock Cr Abrahms Ave.)	12:15	8.5	9.95	132	7.05	TURBID
LSIN4 (Rock Cr Morgan St.)	12:35	8.7	11.73	139	7.43	TURBID
* LSIN5 (Black Diamond Lake Outfl)	12:00	8.5	10.05	30	6.80	
LSIN6A (Jones Lake Inf at Hwy 169)	13:00	8.4	11.65	42	7.05	
LSIN7 (Trib to Ginder Cr (PCCC)	13:15	8.5	12.5	165	7.84	
LSIN8 (Ginder Cr. at Hwy 169)	13:25	8.7	13.5	140	7.35	
LSIN9 (Ravensdale Cr Mouth)	11:15	8.3	11.75	81	7.25	
LSOUT10 (Lake Sawyer Outflow)	13:50	7.8	12.02	105	7.43	
Field Rep LSIN5						

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 1.9

Rock Cr Inflow
South Staff Gage (LSIN1) = 4.55 OK

Rock Cr Inflow
North Staff Gage = 1.30

N → Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.34

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 5.04

Comments: pH CALIB:
10.06 @ 19.2°C
7.04 @ 19.1°C
DO 10.48 mg/L @ 14.1°C

LEVELS & FLOWS UP BUT GENERALLY FAIRLY CLEAR EXCEPT LSIN3 & 4.

Lake Sawyer Field Sheet

Date: 4/19/95

Weather:
Current: Cloudy (Start) / P-C / Sunny (Finish)

Samplers: Bob S.

Past 48hrs: Cloudy/RAIN

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	0923	9.1	8.6	210	7.2
LSIN2 (Rock Cr Morganville Br)	0948	7.7	9.7	249	7.5
LSIN3 (Rock Cr Abrahms Ave.)	1044	8.8	10.3	260	7.2
LSIN4 (Rock Cr Morgan St.)	1100	9.7	11.4	335	7.8
LSIN5 (Black Diamond Lake Outfl)	1023	9.8	8.3	30	7.0
LSIN6 (Jones Lake Inf at Hwy 169)	1118	8.5	10.78	60	7.2 (Very minimal flow)
LSIN7 (Trib to Ginder Cr (PCCC)	1150	9.5	11.29	390	8.1
LSIN8 (Ginder Cr. at Hwy 169)	1200	9.6	11.26	255	7.8
LSIN9 (Ravensdale Cr Mouth)	0853	8.0	11.70	78	7.39
LSOUT10 (Lake Sawyer Outflow)	1219	11.6	11.58	115	7.9

Field Rep = STATION 8

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 1.20

Comments: D.O cal. [illegible] = 11.27

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.90

Rock Cr Inflow
North Staff Gage = Dry

Calibrate pH = 7.03
10.06

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.05

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 4.36

** Last Tues. 4/11/95 Trapper noticed 6" pipe "bubbling" 1.0' high out of ground with raw sewage (n) of roadway in front of entrance to WWTP

Smelled a little like sewage
Temp = 15.0°C
Cond. = 750
STATION WWTP Sampled @ 1038
TP, TN, FEC

Lake Sawyer Field Sheet
Date: 5-11-94

Weather:
Current: PC

Past 48hrs: Sunny / PC

Samplers: Bob S.
Del F.

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

pH calibr.
7.0 buffer: 7.00 @ 7.
4.0 buffer = 3.99 @ _
DO Calibr.
= ___ @ ___

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	0950	15.5	5.50	255	7.15
LSIN2 (Rock Cr Morganville Br)	10:51	14.4	5.91	272	7.30
LSIN3 (Rock Cr Abrahms Ave.)	11:24	15.2	7.95	220	7.36
LSIN4 (Rock Cr Morgan St.)	11:36	17.1	7.40	350	7.53
LSIN5 (Black Diamond Lake Outfl)	11:09	14.9	4.93	42	6.71
LSIN6 (Jones Lake Inf at Hwy 169)	12:36	13.8	8.76	318	7.43
* LSIN7 (Trib to Ginder Cr (PCCC)	12:52	17.0	8.77	452	8.14
LSIN8 (Ginder Cr. at Hwy 169)	13:12	16.8	8.57	340	7.90
LSIN9 (Ravensdale Cr Mouth)	12:16	13.1	8.68	100	7.49
LSOUT10 (Lake Sawyer Outflow)	13:26	20.0	8.99	145	8.28
Field Rep					

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.93

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.68

Rock Cr Inflow
North Staff Gage = DRY

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.00

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.98

Comments:
* Duplicate sample obtained here

Lake Sawyer Field Sheet
Date: 6/8/94

Samplers: DER FELD

Weather:
Current: SUNNY 65°F

Past 48hrs: MOSTLY CLOUDY 60°F

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	9:40	14.5	5.66	267	7.16
LSIN2 (Rock Cr Morganville Br)	10:20	11.8	7.48	250	7.25
LSIN3 (Rock Cr Abrahms Ave.)	11:05	13.4	8.06	218	7.21
LSIN4 (Rock Cr Morgan St.)	11:20	14.6	9.02	345	7.39
LSIN5 (Black Diamond Lake Outfl)	10:40	12.1	4.90	48	6.47
LSIN6 (Jones Lake Inf at Hwy 169)	12:25	11.0	9.85	91	7.08
LSIN7 (Trib to Ginder Cr (PCCC)	12:50	15.3	9.41	256	7.85
LSIN8 (Ginder Cr. at Hwy 169)	1:00	14.8	9.60	412	7.87
LSIN9 (Ravensdale Cr Mouth)	9:55	11.4	10.62	78	7.42
LSOUT10 (Lake Sawyer Outflow)	1:20	18.8	10.00	142	8.38
Field Rep					

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 2.88

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.60

Rock Cr Inflow
North Staff Gage = _____

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.82

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.83

Comments:
- pH CALIB: 7.02 @ 19.6°C
10.05 @ 19.6°C
- TEMP @ LSIN1 BY THERM. 14.5°C
- LSIN5 BARELY DISCERNABLE FLOW
- LSIN3 NO DISC FLOW
- LSIN6 FOUND HIGHER FLOW
S OF LAST POINT (BRING MACHE
NEXT TIME
- FIELD DUP = LSOUT10

Lake Sawyer Field Sheet
Date: 7/6/94

Weather:
Current: HIGH CLOUDS, 60°F

Samplers: DG FIELD

Past 48hrs: _____

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
DUP > LSIN1 (Rock Cr Mouth)	10:15	(15.5 BY HAND) 15.7	1.67	302	7.11
LSIN2 (Rock Cr Morganville Br)	10:55	13.4	6.92	217	7.38
LSIN3 (Rock Cr Abrahms Ave.)	11:25	15.3	6.50	171	7.17
LSIN4 (Rock Cr Morgan St.)	11:40	14.9	9.07	338	7.40
LSIN5 (Black Diamond Lake Outfl)	11:10	13.5	5.84	45	6.78
LSIN6 (Jones Lake Inf at Hwy 169)	11:55	13.3	9.03	368	7.63
LSIN7 (Trib to Ginder Cr (PCCC)	12:10	14.3	10.20	286	8.00
LSIN8 (Ginder Cr. at Hwy 169)	12:25	15.3	9.96	390	7.94
LSIN9 (Ravensdale Cr Mouth)	10:35	13.0	11.12	80	7.62
LSOUT10 (Lake Sawyer Outflow)	12:40	18.5	8.25	140	7.38

Field Rep LSIN1

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.76

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.52

Rock Cr Inflow
North Staff Gage = _____

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.74

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.58

Comments: pH CALIB pH7 = 7.04
pH10 = 10.06
@ 20.5°C

LSIN 3&5:
BARELY DISCERNABLE FLOW.

LSIN 3: WATER QUITE TURB

NO PRECIP SAMPLES! NO (RAIN recorded..

Lake Sawyer Field Sheet
Date: 8/3/94

Weather:
Current: Overcast 70

Samplers: BOLS

Past 48hrs: Sunny 85

pH 7.00 = 7.00 @
pH 10.00 = 10.05

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

D.O. Calibrate = 8.8
21°C = 8.92

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	
LSIN1 (Rock Cr Mouth)	1000	18°C	0.86	399	7.01	
LSIN2 (Rock Cr Morganville Br)	1130	16.3°C	5.26	421*	7.3	
LSIN3 (Rock Cr Abrahms Ave.)	1210	17.5°C	4.35	192	7.1	
LSIN4 (Rock Cr Morgan St.)	1225	18.2°C	8.31	625*	7.7	
LSIN5 (Black Diamond Lake Outfl)	1200	16.1°C	3.28	50	6.8	organic w...
LSIN6 (Jones Lake Inf at Hwy 169)	1245	14.8	8.8	455*	7.75	
LSIN7 (Trib to Ginder Cr (PCCC) (Mud)	1335	20.4	9.32	1090	8.4	
LSIN8 (Ginder Cr. at Hwy 169)	1345	18.2	8.99	500	7.9	
LSIN9 (Ravensdale Cr Mouth)	1035	16.6°C	9.83	100	7.4	
LSOUT10 (Lake Sawyer Outflow)	1405	21.6°C	6.10	155	7.2	** NO FLOW OVER SPILLWAY, JUST a trick flowing thru both culv

Field Rep taken @ LSIN2 ***No FC dup. sample obtained!

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.48±

Comments:

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.15± 0.25 3.40 − .25 = TD to W.S

Rock Cr. Inflow Very low barely flowin

Rock Cr Inflow
North Staff Gage = Dry

. Checked Rec
✓ OK

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.66± @ 1030

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.39 @ 1410

checked recording gage ✓

** Severe algae scum on surface

* Strange high dissolved solids readings becaus H_2O looks extrm. clear... (Prob. due to Mud Cr.

SAWYER WOODS ELEM
813-7750

FIBRE OPTICS @ LSIN4 & LSOUT10

Lake Sawyer Field Sheet
Date: 9/7/94

Weather:
Current: SUNNY 65°

Past 48hrs: SAME

Samplers: Dez F.

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

DUP= LSOUT10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	10:45	15.3 / 15.2	2.66 / 2.28	428	7.21 (15.8°C)
LSIN2 (Rock Cr Morganville Br)	11:45	13.5	6.55 / 6.35	410	7.52
LSIN3 (Rock Cr Abrahms Ave.) NO FLOW	12:30	16.3 / 16.5	6.43 / 6.70	148	7.21
LSIN4 (Rock Cr Morgan St.)	12:50	15.3	9.80 / 9.80	480	7.50
LSIN5 (Black Diamond Lake Outfl)	DRY				
LSIN6 (Jones Lake Inf at Hwy 169)	13:10	12.5	10.30 / 10.60	488	7.80
LSIN7 (Trib to Ginder Cr (PCCC)	NO FLOW / TOO LOW				
LSIN8 (Ginder Cr. at Hwy 169)	13:35	15.7	10.26	510	7.28
LSIN9 (Ravensdale Cr Mouth)	11:10	12.4 ~~11.66~~	10.9 ↓ / 11.66	88	7.60
LSOUT10 (Lake Sawyer Outflow)	13:55	18.9	8.33 / 8.37	145	7.59

WITHOUT PROBE SWITCHED TO °C & BACK

Field Rep
LSOUT10

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.58

3.40 − 0.38 = 3.02 on (09-08-94) 1238

No flow through culvert

Rock Cr Inflow
South Staff Gage (LSIN1) = ~~WATER STAGE~~

Rock Cr Inflow
North Staff Gage = ?

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.54

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.38 on (09-08-94)

✓ Check cont. recorder small amount of water flowing out end of culverts

✓ checked cont. recorder - [redacted]

Comments:
pH = 7.09 @ 22.2°C
10.04 @ 22.0°C

DO cal: 9.14 @ 10:40
8.71 @ 12:05 20.

ADD WRENCH FOR DATA LOGGERS TO CHECKLIST

12:15 DISPLAY LOCKED @ 21.9°/ TURNED OFF & RE-CALIBRATED

Lake Sawyer Field Sheet
Date: 10/12/94

Weather:
Current: SUNNY 45° F

Samplers: DEL FIELD

Past 48hrs: CLOUDY

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	11:15	9.2	1.62	328	7.30
LSIN2 (Rock Cr Morganville Br)	11:50	7.8	8.59	320	7.79
LSIN3 (Rock Cr Abrahms Ave.)	12:10	9.4	6.26	141	7.37
LSIN4 (Rock Cr Morgan St.)	12:30	8.1	12.33	418	7.90
LSIN5 (Black Diamond Lake Outfl)	DRY				
LSIN6 (Jones Lake Inf at Hwy 169)	12:50	6.1	12.98	370	8.02
LSIN7 (Trib to Ginder Cr (PCCC)	DRY				
LSIN8 (Ginder Cr. at Hwy 169)	1:10	8.9	11.86	432	8.26
LSIN9 (Ravensdale Cr Mouth)	11:00	6.9	13.07	72	7.72
LSOUT10 (Lake Sawyer Outflow)	1:35	11.9	7.82	120	8.05

VP →

O

☆

Field Rep LSIN1

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = ≈0.49

Comments: pH CALIB
10.04 @ 20.2°C
7.04 @ 19.7°C

✳ Rock Cr Inflow
South Staff Gage (LSIN1) = 2.75 LOGGER OK

Rock Cr Inflow
North Staff Gage = HI & DRY

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.46

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.39 LOGGER OK

34
59
.75

2
13
49

✳ LSIN NOT FLOWING (BELOW BOTTOM OF CULVERT).
O LSIN3 NO DISCERNABLE FLOW (VERY MURKY). AQUATIC MAMMAL
☆ LSOUT10 [illegible]

Lake Sawyer Field Sheet
Date: 11/16/94

Weather:
Current: RAIN/SNOW 36°F

Samplers: J. DA FIELD

Past 48hrs: RAIN

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH
LSIN1 (Rock Cr Mouth)	11:45	5.2	7.10	209	7.16
LSIN2 (Rock Cr Morganville Br)	12:20	4.8	8.99	193	7.37
LSIN3 (Rock Cr Abrahms Ave.)	12:55	5.6	9.11	158	7.0
LSIN4 (Rock Cr Morgan St.)	13:05	5.4	11.18	158	7.37
LSIN5 (Black Diamond Lake Outfl)	12:40	5.7	7.42	49	6.65
LSIN6 (Jones Lake Inf at Hwy 169)	13:25	6.49	9.42	105	7.84
LSIN7 (Trib to Ginder Cr (PCCC)	13:50	5.1	12.62	239	7.68, ~~7.68~~
LSIN8 (Ginder Cr. at Hwy 169)	14:00	5.1	11.30	99	7.38
LSIN9 (Ravensdale Cr Mouth)	11:20	6.2	11.86	65	7.30
LSOUT10 (Lake Sawyer Outflow)	14:15	6.0	9.24	118	7.17

Field Rep
LSIN2 @?

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.49

Rock Cr Inflow
South Staff Gage (LSIN1) = 3.58
↳ STATUS OK CONDENSATION INSIDE

Rock Cr Inflow
North Staff Gage = DRY

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.64

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 3.42
OK

Comments:
pH CALIB
10.11 @ 15.4 °C
7.03 @ 15.1 °C
DO CALIB 11.72

Lake Sawyer Field Sheet
Date: 12/20/94

Page 1 of 1

Weather:
Current: RAIN

Samplers: Del F.
Bob S.

Past 48hrs: HEAVY RAIN LAST NIGHT

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

STORM EVENT

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	
LSIN1 (Rock Cr Mouth)	1105	6.7	9.06	120	7.16	—
LSIN2 (Rock Cr Morganville Br)	1140	7.1	8.89	118	7.14	W (16) D (2.25) L (5.0) V (sec)
LSIN3 (Rock Cr Abrahms Ave.) 4" water over roadway (culverts)	1205	7.1	9.86	124	7.08	—
LSIN4 (Rock Cr Morgan St.)	12:25	7.1	11.13	112	7.06	W (9) D (7.5) L (5)
LSIN5 (Black Diamond Lake Outfl)	12:00	6.2	8.62	35	6.46	W 8.0' D 0.9' L 5.0' V 7. Sec
* LSIN6A (Jones Lake Inf at Hwy 169) Sampled northern trib (plume in Lake)	12:50	7.5	10.89	42	6.5	W 3.0' D 0.4' L 5.0 V 2. sec
LSIN7 (Trib to Ginder Cr (PCCC)	1:10	7.2	10.90	140	7.5	* Sampled → ~~6.0 0.6~~ 5.0 4.0 sec (4.0)(0.6)(5.5)(3.0 sec)
LSIN8 (Ginder Cr. at Hwy 169)	1:15	6.8	9.82	98	7.17	(7.0)(1.1)(5.0)(3.0 sec)
LSIN9 (Ravensdale Cr Mouth)	11:25	8.2	11.13	81	7.31	
LSOUT10 (Lake Sawyer Outflow)	10:55	5.3	10.96	101	7.36	

** Field Rep @ STATION #7

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 2.24

Rock Cr Inflow
South Staff Gage (LSIN1) = 4.50 @ 1115

Rock Cr Inflow
North Staff Gage (flowing) = 1.15 @ 1116

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.22 @ 1117

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 4.77 @ 1045

Comments: DO Chill:
10.62 @ 13.2°C
pH 10.13 @ 12.8°C
7.04 @ 12.8°C

(1:30 pm)
** Sample taken @ 8A (runoff channel from roadway discharging down to 8 (It was BLACK!)
(1.2')(0.20')(5.0')

FALL STORM EVENT

Lake Sawyer Field Sheet
Date: 10/26/94

Page 1 of 1

Weather:
Current: RAIN 1.25" +

Samplers: Bob S.

Past 48hrs: dry

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	Avg. (L)(W)(D) (T in
LSIN1 (Rock Cr Mouth)	2:45 PM	9.7 / 10.0	6.93	320	7.3	
LSIN2 (Rock Cr Morganville Br)	3:15	9.8	7.31	335	7.1	5:50PM staff = 0.48 (5)(16)(1.2')(9.0
LSIN3 (Rock Cr Abrahms Ave.)	4:00	11.0	8.04	190	7.0	Very turbid brown
LSIN4 (Rock Cr Morgan St.)	4:40	10.8	9.30	165	7.1	(5)(10)(1.5)(8.0
LSIN5 (Black Diamond Lake Outfl)	3:45	10.3	7.39	70	6.7	(5)(5)(0.35)(2
LSIN6 (Jones Lake Inf at Hwy 169)	6:15 PM	10.6	8.42	150	6.9	(3)(3)(0.40)(2
LSIN7 (Trib to Ginder Cr (PCCC)	5:05	10.20	10.7	405	7.3	
LSIN8 (Ginder Cr. at Hwy 169)	5:15	10.9	9.07	105	6.9	(5)(6)(0.5)(3.0) milk choc.*
LSIN9 (Ravensdale Cr Mouth)	3:00	10.7	10.26	75	7.4	
LSOUT10 (Lake Sawyer Outflow)						

During 36

Ipped ining

Field Rep: Taken @ LSIN8

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 0.32 @ 315

Comments:
~~pH calib. 10.03 @ 22.3°C~~ 5/6
~~7.03 @ 22.2°C~~ 5/6

Rock Cr Inflow
South Staff Gage (LSIN1) = @ 2:15 TD 3.34 - 0.04 = 3.30
3.32 (2:45)

Rock Cr Inflow
North Staff Gage = ~~DRY~~

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 0.60 @ 3:00

Lake Sawyer Outflow
Staff Gage (LSOUT10) = ~~Not read~~

* Roadway runoff running down fast pa to creek (sampled u of this

however obtained LSIN1PEAK @ 0530 on 10/27

Tim Cheatum
(H) 868-079
979-716
(Cellular)

	Rock Cr.		Ravensdale		
:30	3.30	—	2:40	0.58	10/25 @5PM 0.48
:45	3.32	(320)*	3:00	0.60 (75)*	1st comp. sample Full
2	3.35	(270)	4:15	0.60 (100)	Full
2:22	3.38	(273)	5:25	0.60 (103)	Full
5:25	3.40	(280)	6:28	0.60 (110)	(1/2)
7:15	3.41	(280)	7:20	0.60 (112)	Raining Lightly
8:15	3.44	(290)	8:20	0.59 (112)	" "
9:15	3.46	(295)	9:20	0.58 (114)	" "
10:15	3.48	(295)	10:20	0.57 (117)	" "
11:15	3.51	(315)	11:20	0.56 (119)	~~RAIN~~
12:15	3.54	(315)	12:20	0.55 (117)	11:30 – 12:15 RAIN
01:15	3.56	(320)	01:20	0.56 (115)	Thurs. 10/27
02:15	3.60	(330)	02:20	0.56 (105)	(1/2) RAIN ~~MODERATE~~
03:15	3.62	(335)	03:20	0.56 (110)	(1/4) steady rain
04:15	3.66	(328)	04:20	0.58 (110)	" "
05:15	3.68	(300)*	05:20	0.59 (102)	" " * obtained LSINIP @0530
06:15	3.71	(300)	06:20	0.60 (102)	" "
07:15	3.74	(303)	07:20	0.61 (100)	" "
08:15	3.74	(300)	08:20	0.61 (102)	Light rain
09:15	3.77	(290)	09:20	0.62 (102)	
10:15	3.80	(287)	10:20	0.62 (108)	(DEL)
11:15 AM	3.81	(290)	11:20 AM	0.61 (108)	
12:15	3.82	(290)	12:20 PM	0.60 (102)	
1:15 PM	3.84	(290)	1:20 PM	0.60 (108)	
2:15 PM	3.86	(292)	2:15 PM	0.59 (111)	
3:15 PM	3.88	(290)	3:20 PM	0.58 (107)	(Del)
5:05	3.90	—	—	—	

KING COUNTY SURFACE WATER MANAGEMENT
Lake Stewardship Program
Lake Monitor's Quarterly Data Sheet

Week	Date	Time	Secchi depth	~~Temp.~~ COND	~~Color~~ STAGE	Total Precip.	Level range
1	10/27	10:15	Rock	287 ~~COND~~	3.80		
2		10:20	RAVENSDALE	108	0.62		
3		11:15	Rock	290	3.81		
4		11:20	RAVENSDALE	108	0.61		
5		12:15	Rock	290	3.82		
6		12:20	RAVENSDALE	102	0.60		
7		1:15	Rock	290	3.84		
8		1:20	RAVENSDALE	108	0.60		
9		2:15	Rock	292	3.86		
10		2:20	RAVENSDALE	111	0.59		
11		3:15	Rock	290	3.88		
12		3:20	RAVENSDALE	107	0.58	(Del) finished sampling	
13		5:05	Rock	—	3.90	(Bob)	

Your Name:_____ Lake name:_____

Address:_____

Phone number:_____ Questions? Bob Storer, 296 - 8383

Make a copy of this sheet for your own records before mailing to the address on the reverse.

Lake Sawyer Field Sheet
Date: 2/18/95

Weather:
Current: ~~RAIN~~ ≅ 0.90" (last 12hrs) Samplers: Bob S. 1.5" = 14 hr
→ + 1.00" (from 5PM – 11:15PM via John Davies phone call)
Past 48hrs: RAIN
Total = 1.7" (Need to verify!)

Stations: Inlets/Outlet
Lake Sawyer Inflows 1-9
Lake Sawyer Outflow 10

Station	Time	Temp (C)	DO (mg/L)	Cond (uS)	pH	WDL ✓
LSIN1 (Rock Cr Mouth)	7:15 pm	6.5	No METER	125	8.5	
LSIN2 (Rock Cr Morganville Br)	8:00	7.0		125	8.2	Same as last 2.0' (5') 5.0
LSIN3 (Rock Cr Abrahms Ave.)	8:45	8.0		110	7.7	
LSIN4 (Rock Cr Morgan St.)	9:00	8.0		115	8.0	13.0' 0.75' (5') 4.0
LSIN5 (Black Diamond Lake Outfl)	8:30	7.0		25	7.4	9.0' 0.75' (5') 10.
LSIN6 (Jones Lake Inf at Hwy 169)	9:30	8.5		30**	7.1	9.0' 1.0 (5') 4.
LSIN7 (Trib to Ginder Cr (PCCC)	9:50	8.0		240	5-6.5	5.0' 0.75 (5') 3.
LSIN8 (Ginder Cr. at Hwy 169)	10:30	7.9		70	7.9	8.0' 1.1' (5') 3.
LSIN9 (Ravensdale Cr Mouth)	7:30	8.1		81	8.1	
LSOUT10 (Lake Sawyer Outflow)	1105	6.5		95	8.1	
Field Rep = 7						

1) Hard → *

Rock Creek at Morganville Bridge
Upstream Staff Gage (LSIN2) = 2.00

Comments:
4.28 (7:25) 4.40 @ 1046 (only light drizzle now)
@ 650 pm
Dup = 7

Rock Cr Inflow
South Staff Gage (LSIN1) = 4.26

Rock Cr Inflow
North Staff Gage = Dry

Ravensdale Cr Inflow
Staff Gage (LSIN9) = 1.21 (1:30 pm) / 1.28 @ 1050

Rain steady throughout!

Lake Sawyer Outflow
Staff Gage (LSOUT10) = 5.15
lots of debris in front of both culverts

* Chain-of-custody shows 6

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER: KI010-23 PAGE 1

REPORT DATE: 08/30/94

DATE SAMPLED: 07/20/94 DATE RECEIVED: 07/20/94

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON SEDIMENT SAMPLES FROM KING COUNTY SWM

CASE NARRATIVE

Thirteen sediment cores were received by the laboratory in good condition. The cores were sectioned and analyzed according to the chain of custody. No difficulties were encountered in the analysis or preparation of these samples. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/kg)	TKN (mg/kg)	% SOLIDS	% VOLATILE SOLIDS	ALUMINUM (mg/kg)	IRON (mg/kg)	ZINC (mg/kg)
S1 0 - 2 CM	1789	11076	7.93%	24.23%	12610	20515	89.1
S1 2 - 12 CM	1922	13403	8.41%	26.18%	15112	28877	125
S2 0 - 2 CM	1674	14218	5.29%	26.40%	20394	18717	217
S2 2 - 12 CM	1302	21048	7.28%	28.79%	18608	23616	148
S3 0 - 2 CM	1505	18113	6.70%	36.48%	9310	17881	85.0
S3 2 - 12 CM	1240	13882	8.82%	35.76%	11338	25955	96.7
S4 0 - 2 CM	1636	15543	6.23%	34.68%	15340	14944	124
S4 2 - 12 CM	1196	13331	9.28%	34.11%	15461	25925	135
S5 0 - 2 CM	1726	15962	7.36%	35.05%	14798	12914	104
S5 2 - 12 CM	1182	13874	8.91%	37.14%	16230	18486	111
S6 0 - 2 CM	1774	13145	8.18%	28.95%	14171	18429	91.2
S6 2 - 12 CM	1244	11491	11.30%	28.60%	16663	17052	102
S7 0 - 2 CM	1829	16098	6.74%	38.04%	15424	15571	88.1
S7 2 - 12 CM	1435	15888	8.03%	42.66%	19793	15040	106
S8 0 - 2 CM	1470	11112	9.50%	26.00%	16801	16334	87.1
S8 2 - 12 CM	599	4046	32.94%	8.87%	13120	23295	58.0
S9 0 - 2 CM	1502	16050	7.07%	39.82%	14632	18604	128
S9 2 - 12 CM	1290	16651	7.93%	40.80%	11927	16089	106
S10 0 - 2 CM	1379	15473	6.13%	38.10%	20941	37254	156
S10 2 - 12 CM	933	14964	7.07%	37.78%	11867	14696	75.9
S11 0 - 2 CM	876	6087	16.91%	13.58%	29858	51310	121
S11 2 - 12 CM	571	2539	39.18%	6.99%	18142	35032	61.2
S12 0 - 2 CM	1895	16978	6.15%	38.97%	43255	42229	223
S12 2 - 12 CM	1758	16027	7.49%	38.17%	19321	16111	94.4
DUP 0 - 2 CM	2077	16238	6.49%	38.44%	21421	19091	109
DUP 2 - 12 CM	1438	15736	7.82%	42.50%	12664	15767	67.0

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: ZOOP NET - 25cm id.

DATE: 26 May 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	894	0	2.5	2,234	
Skistodiaptomus oregonensis	1.37	1.54	413	6.6	12	3,836	
Order Cyclopoida							
Copepodid		0.6-0.7	3,713	0	2	7,425	
Orthocyclops modestus	0.90	1.12	344	3	5.5	1,719	
Diacyclops bicuspidatus thomasi	0.90	1.12	1,238	3	5.5	5,088	
Mesocyclops edax	1.20	1.68	138	4.4	40	3,053	
Nauplii (cal+cyc)		<.3	8,250	0	0.25	2,063	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,100	0	5	5,500	
Daphnia pulex/pulicaria group		1.82	619	0	29	17,944	
Daphnia shodleri-like		1.75	206	0	30	6,188	
Bosmina longirostris (juv)		0.28	1,031	0	0.7	722	
Class Insecta							
Order Diptera							
Chaoborus sp.		10.00	12	0	300	3,713	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	10,313	0	0.02	206	
Keratella cochlearis		0.21	61,531	0	0.01	615	
Keratella earlinae			6,531	0	0.02	131	
Keratella hiemalis		0.14	4,813	0	0.04	193	
Type 2 (mostly illoricate virgates/incudates)							
Asplanchna sp.		0.56	344	0	3.6	1,238	
Asplanchna sp.		0.42	688	0	1.2	825	
Gastropus stylifer		0.11	1,031	0	0.03	31	
Polyarthra sp. A		0.12	8,938	0	0.035	313	
Polyarthra sp. B		0.14	6,875	0	0.06	413	
Polyarthra sp. B		0.18	12,031	0	0.09	1,083	
Synchaeta sp.		0.28	688	0	0.16	110	
Synchaeta sp.		0.18	1,031	0	0.06	62	
Trichocerca sp.		0.21	1,719	0	0.024	41	
Type 3 (mostly malleoramates)							
Conochilus sp.						39	
Filinia sp.						14	
Pompholyx sp.						21	
Others							

	Total Dens #/m3	/L	Biomass ug/L
	137,925	15	64.82
% Calanoid Copepods	0.95	17	
% Cyclopoid Copepods	3.94	17	
% Nauplii	5.98	8	
% Cladocerans	2.14	3	
% Rotifers	86.98	3	
% Dipterans	0.01	3	
Number of species	21		

Bob-
Enclosed are data pages for 1st Sample batch from Lk Sawyer + invoice. Turnover of data during summer is a bit slow - please bear with! Thanks
Mairbetz

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE: 200P NET - 25cm i.d.

DATE: 26 May 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	1,598	0	2.5	3,996	
Skistodiaptomus oregonensis	1.37	1.54	441	6.6	12	4,398	
Order Cyclopoida							
Copepodid		0.6-0.7	6,448	0	2	12,896	
Orthocyclops modestus	0.90	1.12	276	3	5.5	1,240	
Diacyclops bicuspidatus thomasi	1.00	1.26	1,764	3	7	9,920	
Mesocyclops edax	1.20	1.82	55	4.4	50	2,756	
Nauplii (cal+cyc)		<.3	8,267	0	0.25	2,067	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	937	0	5	4,684	
Daphnia pulex/pulicaria group		1.61	331	0	20	6,613	
Daphnia shodleri-like		1.54	220	0	20	4,409	
Daphnia sp.		1.50	55	5	20	1,102	
Ceriodaphnia sp.		0.70	551	0	4	2,204	
Bosmina longirostris (juv)		0.28	276	0	0.7	193	
Class Insecta							
Order Diptera							
Chaoborus sp.		10.00	1	0	300	413	
Chaoborus sp. (small)		4.00	1	0	50	69	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	5,511	0	0.02	110	
Keratella cochlearis		0.21	33,893	0	0.01	339	
Keratella earlinae			4,684	0	0.02	94	
Keratella hiemalis		0.14	3,307	0	0.04	132	
Keratella quadrata		0.18	276	0	0.07	19	
Type 2 (mostly lilloricate virgates/incudates)							
Asplanchna sp.		0.49	1,929	0	2.2	4,244	
Asplanchna sp.		0.35	827	0	0.56	463	
Gastropus stylifer		0.14	827	0	0.03	25	
Polyarthra sp. A		0.12	7,440	0	0.035	260	
Polyarthra sp. B		0.14	6,889	0	0.06	413	
Polyarthra sp. B		0.18	8,267	0	0.09	744	
Synchaeta sp.		0.28	827	0	0.16	132	
Trichocerca sp.		0.21	1,929	0	0.024	46	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.21	551	0	0.038	21	
Pompholyx sp.		0.09	1,653	0	0.01	17	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	100,029	100.03	64,020	64.02
% Calanoid Copepods	2.04		13.11	
% Cyclopoid Copepods	8.54		41.88	
% Nauplii	8.26		3.23	
% Cladocerans	2.37		30.00	
% Rotifers	78.79		11.03	
% Dipterans	0.00		0.75	

Number of species 23

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 05/26/94
STATION: Sta A (0.5,1.5,2.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Chlorophyta				
Cosmarium sp. A	2.00	5,744	11,488	
Pandorina morum	32.00	182	5,836	
undeter colonial green(sph)	42.00	113	4,748	colony broken apart
Taxon Subtotal	**76**		**22,072**	
Chrysophyta				
Dinobryon sp.	2.00	1,047	2,093	
Rhizochrysis limnetica	1.00	5,443	5,443	
unicell chrysophyte (ell)	4.00	1,959	7,837	
Bacillariophyceae				
Asterionella formosa	112.00	371	41,604	
Cyclotella sp.	455.00	4,245	1,931,602	
Fragilaria crotonensis	1,125.00	683	768,375	
Synedra sp.	4.00	1,055	4,220	
Taxon Subtotal	**1703**		**2,761,175**	
Cryptophyta				
cryptomonad	7.00	1,641	11,488	
Taxon Subtotal	**7**		**11,488**	
Euglenophyta				
Pyrrhophyta				
Peridinium sp.	1.00	44,012	44,012	
Taxon Subtotal	**1**		**44,012**	
Chloromonadophyta				

Total Number/ml	**1787**	**Total Volume (u3/ml)**	**2,838,747**
% Chlorophyta	**4.25**	% Chlorophyta	**0.78**
% Chrysophyta	**95.30**	% Chrysophyta	**97.27**
% Cryptophyta	**0.39**	% Cryptophyta	**0.40**
% Pyrrhophyta	**0.06**	% Pyrrhophyta	**1.55**

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 05/26/94
STATION: Sta B (0.5,1.5,2.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Chlorophyta				
Pandorina morum	32.00	182	5,836	
Scenedesmus sp. A	1.00	536	536	
Taxon Subtotal	**33**		**6,372**	
Chrysophyta				
unicell chrysophyte (ell)	4.00	1,055	4,220	
Bacillariophyceae				
Asterionella formosa	32.00	371	11,887	
Cyclotella sp.	495.00	4,245	2,101,414	
Fragilaria crotonensis	1,380.00	683	942,540	
Synedra sp.	2.00	1,055	2,110	
Taxon Subtotal	**1913**		**3,062,171**	
Cryptophyta				
Euglenophyta				
helomonas sp. (sph,smooth)	3.00	4,187	12,560	
Taxon Subtotal	**3**		**12,560**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1949**	**Total Volume (u3/ml)**	**3,081,102**
% Chlorophyta	1.69	% Chlorophyta	0.21
% Chrysophyta	98.15	% Chrysophyta	99.39
% Euglenophyta	0.15	% Euglenophyta	0.41

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 06/09/94
STATION: Sta A (0.5,1.5,2.5m comp)

NOTE: many detrital clots/diatoms

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	20.00	113	2,261	short coil
Aphanizomenon flos-aquae	39.00	118	4,602	
Chroococcus sp.	18.00	335	6,029	
Taxon Subtotal	**77**		**12,892**	
Chlorophyta				
Clamydomonas sp.	1.00	1,641	1,641	
Eudorina elegans	16.00	1,436	22,976	
Quadrigula sp.	2.00	366	733	
Sphaerocystis shroeteri	8.00	113	904	
Taxon Subtotal	**27**		**26,255**	
Chrysophyta				
unicell chrysophyte (ell)	1.00	6,280	6,280	
Bacillariophyceae				
Asterionella formosa	24.00	371	8,915	
Cyclotella sp.	668.00	5,319	3,553,199	
Fragilaria crotonensis	365.00	683	249,295	
Melosira sp. A	8.00	1,780	14,243	
Stephanodiscus sp.	2.00	60,351	120,702	
Synedra ulna	1.00	10,990	10,990	
Taxon Subtotal	**1069**		**3,963,624**	
Cryptophyta				
cryptomonad	23.00	1,641	37,747	
Rhodomonas sp.	7.00	366	2,564	
Taxon Subtotal	**30**		**40,311**	
Euglenophyta				
Trachelomonas sp. (sph,smooth)	4.00	4,187	16,747	
Taxon Subtotal	**4**		**16,747**	
Pyrrhophyta				
Ceratium hirundinella	2.00	60,000	120,000	
Taxon Subtotal	**2**		**120,000**	
Chloromonadophyta				

Total Number/ml	**1209**	**Total Volume (u3/ml)**	**4,179,828**
% Cyanophyta	**6.37**	% Cyanophyta	**0.31**
% Chlorophyta	**2.23**	% Chlorophyta	**0.63**
% Chrysophyta	**88.42**	% Chrysophyta	**94.83**
% Cryptophyta	**2.48**	% Cryptophyta	**0.96**
% Euglenophyta	**0.33**	% Euglenophyta	**0.40**
% Pyrrhophyta	**0.17**	% Pyrrhophyta	**2.87**

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A NOTE:
DATE: 9 June 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim Dry wt. ug/male	Estim Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	1,952	0	2.5	4,880
Skistodiaptomus oregonensis	1.30	1.50	366	6.6	12	3,074
Order Cyclopoida						
Copepodid		0.6-0.7	2,562	0	2	5,124
Orthocyclops modestus	0.90	1.05	915	3	5	3,965
Diacyclops bicuspidatus thomasi	0.90	1.16	1,525	3	5.5	7,625
Nauplii (cal+cyc)		<.3	24,400	0	0.25	6,100
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	1,952	0	5	9,760
Daphnia pulex/pulicaria group		1.50	1,220	0	16	19,520
Class Insecta						
Order Diptera						
Chaoborus sp. (small)		4.20	45	0	50	2,257
Chaoborus sp. (robust)		10.00	4	0	300	1,190
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	10,980	0	0.02	220
Keratella cochlearis		0.16	149,450	0	0.01	1,495
Keratella earlinae		0.21	9,455	0	0.02	189
Keratella hiemalis		0.14	11,895	0	0.04	476
Keratella quadrata		0.18	305	0	0.069	21
Type 2 (mostly litoricate virgates/incudates)						
Ascomorpha sp.		0.12	305	0	0.023	7
Asplanchna sp.		0.42	305	0	1.2	366
Gastropus stylifer		0.11	1,525	0	0.03	46
Polyarthra sp. A		0.10	1,525	0	0.03	46
Polyarthra sp. B		0.18	20,130	0	0.09	1,812
Trichocerca sp. B		0.21	610	0	0.024	15
Type 3 (mostly malleoramates)						
Conochilus sp.		0.21	305	0	0.038	12
Pompholyx sp.		0.09	1,830	0	0.01	18
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	243,561	243.56	68,216	68.22
% Calanoid Copepods	0.95		11.66	
% Cyclopoid Copepods	2.05		24.50	
% Nauplii	10.02		8.94	
% Cladocerans	1.30		42.92	
% Rotifers	85.65		6.92	
% Dipterans	0.02		5.05	

Number of species 19

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 06/09/94
STATION: Sta B (0.5,1.5,2.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	10.00	113	1,130	small coil
Aphanizomenon flos-aquae	26.00	118	3,068	
Chroococcus sp.	12.00	151	1,809	
Taxon Subtotal	**48**		**6,007**	
Chlorophyta				
Cosmarium sp. A	1.00	5,744	5,744	
Oocystis sp.	4.00	188	754	
Oocystis sp.	20.00	733	14,653	
Pandorina morum	32.00	335	10,718	
Sphaerocystis shroeteri	92.00	268	24,651	
green nanno unicell(sph)	5.00	523	2,617	
Taxon Subtotal	**154**		**59,137**	
Chrysophyta				
Bacillariophyceae				
Asterionella formosa	40.00	371	14,858	
Cyclotella sp.	655.00	3,799	2,488,607	
Fragilaria crotonensis	375.00	683	256,125	
Taxon Subtotal	**1070**		**2,759,590**	
Cryptophyta				
cryptomonad	1.00	1,641	1,641	
Rhodomonas sp.	4.00	366	1,465	
Taxon Subtotal	**5**		**3,107**	
Euglenophyta				
Trachelomonas sp. (sph,smooth)	1.00	4,187	4,187	
Taxon Subtotal	**1**		**4,187**	
Pyrrhophyta				
Peridinium sp.	1.00	44,012	44,012	
Taxon Subtotal	**1**		**44,012**	
Chloromonadophyta				

Total Number/ml	**1279**	**Total Volume (u3/ml)**	**2,876,040**
% Cyanophyta	3.75	% Cyanophyta	0.21
% Chlorophyta	12.04	% Chlorophyta	2.06
% Chrysophyta	83.66	% Chrysophyta	95.95
% Cryptophyta	0.39	% Cryptophyta	0.11
% Euglenophyta	0.08	% Euglenophyta	0.15
% Pyrrhophyta	0.08	% Pyrrhophyta	1.53

Note: *=colony/ml

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE:

DATE: 9 Jun 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	4,560	0	2.5	11,400	
Skistodiaptomus oregonensis	1.37	1.54	1,689	6.6	12	14,339	
Order Cyclopoida							
Copepodid		0.6-0.7	5,742	0	2	11,484	
Orthocyclops modestus	0.90	1.12	422	3	5	2,111	
Diacyclops bicuspidatus thomasi	1.00	1.16	2,364	3	5.5	11,949	
Nauplii (cal+cyc)		<.3	65,867	0	0.25	16,467	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	3,884	0	5	19,422	
Daphnia pulex/pulicaria group		1.75	1,267	0	26	32,933	
Daphnia sp. (brd md helmt)		1.50	169	5	15	2,533	pulex variant?
Class Insecta							
Order Diptera							
Chaoborus sp. (small)		4.00	15	0	50	739	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	25,756	0	0.02	515	
Keratella cochlearis		0.16	259,667	0	0.01	2,597	
Keratella earlinae		0.21	28,289	0	0.02	566	
Keratella hiemalis		0.14	14,778	0	0.04	591	
Keratella quadrata		0.18	422	0	0.07	30	
Type 2 (mostly illoricate virgates/incudates)							
Ascomorpha sp.		0.08	422	0	0.01	4	
Asplanchna sp.		0.49	844	0	2.2	1,858	
Gastropus sp.		0.14	2,111	0	0.04	84	
Gastropus stylifer		0.11	5,911	0	0.03	177	
Polyarthra sp. A		0.10	1,267	0	0.03	38	
Polyarthra sp. B		0.18	25,756	0	0.09	2,318	
Synchaeta sp.		0.28	422	0	0.16	68	
Trichocerca sp. B		0.18	844	0	0.04	34	
Trichocerca sp. C		0.14	422	0	0.016	7	
Type 3 (mostly malleoramates)							
Filinia sp.		0.17	2,111	0	0.04	84	
Pompholyx sp.		0.09	4,222	0	0.01	42	
Others							
Undeter rotifer 1		0.10	422	0	0.005	2	

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	459,646	459.65	132,392	132.39
% Calanoid Copepods	1.36		19.44	
% Cyclopoid Copepods	1.86		19.29	
% Nauplii	14.33		12.44	
% Cladocerans	1.16		41.46	
% Rotifers	81.29		6.81	
% Dipterans	0.00		0.56	

Number of species 23

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A
DATE: 23 June 94

WATER Environmental Services, Inc.

NOTE:

Note: one chironomid (15mm) in sample
alga-Volvox colony in sample

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3	Comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	4,809	0	2.5	12,023	
Skistodiaptomus oregonensis	1.30	1.40	1,959	6.6	12	17,741	
Order Cyclopoida							
Copepodid		0.6-0.7	4,453	0	2	8,906	
Orthocyclops modestus	0.90	1.05	534	3	5	2,316	
Diacyclops bicuspidatus thomasi	1.00	1.16	534	3	5.5	2,494	
Mesocyclops edax	1.20	1.68	178	4.4	45	8,016	
Nauplii (cal+cyc)		<.3	57,000	0	0.25	14,250	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	3,206	0	5	16,031	
Daphnia pulex/pulicaria group		1.82	1,069	0	29	30,994	
Bosmina longirostris (juv)		0.28	178	0	0.7	125	
Chydorus sphaericus		0.28	356	0	0.65	232	
Class Insecta							
Order Diptera							
Chaoborus sp. (mod)		8.00	119	0	130	15,422	
Chaoborus sp. (robust)		11.00	6	0	350	2,182	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	9,263	0	0.02	185	
Keratella cochlearis		0.16	115,781	0	0.01	1,158	
Keratella earlinae		0.21	3,563	0	0.02	71	
Keratella hiemalis		0.14	17,456	0	0.04	698	
Keratella quadrata		0.18	356	0	0.069	25	
Type 2 (mostly illoricate virgates/incudates)							
Ascomorpha sp.		0.12	356	0	0.023	8	
Gastropus stylifer		0.12	1,069	0	0.03	32	
Polyarthra sp. A		0.10	713	0	0.03	21	
Polyarthra sp. B		0.18	15,319	0	0.09	1,379	
Synchaeta sp.		0.28	1,425	0	0.16	228	
Trichocerca sp. A (bent)		0.17	1,781	0	0.03	53	
Trichocerca sp. B (strait)		0.21	356	0	0.024	9	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.14	3,919	0	0.012	47	
Collotheca sp.		0.21	1,781	0	0.01	18	
Filinia sp.		0.16	1,781	0	0.04	71	
Pompholyx sp.		0.09	3,563	0	0.01	36	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	252,884	252.88	134,770	134.77
% Calanoid Copepods	2.68		22.09	
% Cyclopoid Copepods	2.25		16.12	
% Nauplii	22.54		10.57	
% Cladocerans	1.90		35.16	
% Rotifers	70.58		3.00	
% Dipterans	0.05		13.06	

Number of species 24

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 23 Jun 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3	Comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	7,093	0	2.5	17,733	
Skistodiaptomus oregonensis	1.26	1.54	2,759	6.6	12	27,144	
Order Cyclopoida							
Copepodid		0.6-0.7	4,335	0	2	8,670	
Orthocyclops modestus	0.90	1.12	1,182	3	5	5,281	
Diacyclops bicuspidatus thomasi	1.00	1.16	2,049	3	5.5	10,876	
Mesocyclops edax	1.20	1.68	236	4.4	45	7,440	
Nauplii (cal+cyc)		<.3	61,081	0	0.25	15,270	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	2,759	0	5	13,793	
Daphnia pulex/pulicaria group		1.62	315	0	29	9,143	
Bosmina longirostris (juv)		0.28	394	0	0.7	276	
Chydorus sphaericus		0.25	394	0	0.6	236	
Class Insecta							
Order Diptera							
Chaoborus sp. (robust)		11.00	3	0	350	1,034	
Chaoborus sp. (mod)		8.00	22	0	130	2,869	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	15,763	0	0.02	315	
Keratella cochlearis		0.16	151,719	0	0.01	1,517	
Keratella earlinae		0.21	11,034	0	0.02	221	
Keratella hiemalis		0.14	16,551	0	0.04	662	
Keratella quadrata		0.18	394	0	0.07	28	
Type 2 (mostly illoricate virgates/incudates)							
Asplanchna sp.		0.42	394	0	1.2	473	
Gastropus stylifer		0.11	3,941	0	0.03	118	
Polyarthra sp. A		0.10	788	0	0.03	24	
Polyarthra sp. B		0.14	13,793	0	0.06	828	
Polyarthra sp. B		0.17	13,793	0	0.08	1,103	
Polyarthra sp. B		0.21	394	0	0.11	43	
Synchaeta sp.		0.21	4,335	0	0.075	325	
Synchaeta sp.		0.35	1,182	0	0.28	331	
Trichocerca sp. A(bent)		0.18	3,547	0	0.03	106	
Trichocerca sp. B(strait)		0.16	788	0	0.02	16	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.10	5,517	0	0.012	66	
Filinia sp.		0.18	1,182	0	0.045	53	
Pompholyx sp.		0.09	5,123	0	0.01	51	

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	332,860	332.86	126,046	126.05
% Calanoid Copepods	2.96		35.60	
% Cyclopoid Copepods	2.34		25.60	
% Nauplii	18.35		12.11	
% Cladocerans	1.16		18.60	
% Rotifers	75.18		4.98	
% Dipterans	0.01		3.10	
Number of species	24			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 06/23/94
STATION: Sta A (0.5,1.5,2.5m comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Chroococcus sp.	8.00	40	319	
Taxon Subtotal	**8**		**319**	
Chlorophyta				
Elakatothrix gelatinosa	16.00	126	2,010	
Oocystis sp.	12.00	733	8,792	
Pandorina morum	48.00	182	8,754	
Pandorina morum	2.00	2,412	4,823	colony broken
colonial green(sph)	10.00	904	9,043	
colonial green(sph)	44.00	113	4,974	
Taxon Subtotal	**132**		**38,395**	
Chrysophyta				
Mallomonas sp. A	1.00	2,872	2,872	
Bacillariophyceae				
Asterionella formosa	8.00	371	2,972	
Cyclotella sp.	960.00	3,768	3,617,280	
Cyclotella sp.	3.00	10,613	31,840	
Fragilaria crotonensis	160.00	683	109,280	
Melosira sp. A	3.00	1,780	5,341	
Synedra sp.	1.00	469	469	
Taxon Subtotal	**1136**		**3,770,053**	
Cryptophyta				
Cryptomonas sp.	16.00	1,641	26,259	
cryptomonad	5.00	879	4,396	
Rhodomonas sp.	12.00	366	4,396	
Taxon Subtotal	**33**		**35,051**	
Euglenophyta				
Trachelomonas sp. (sph,smooth)	1.00	4,187	4,187	
Taxon Subtotal	**1**		**4,187**	
Pyrrhophyta				
Ceratium hirundinella	2.00	60,000	120,000	
Taxon Subtotal	**2**		**120,000**	
Chloromonadophyta				

Total Number/ml	**1312**	**Total Volume (u3/ml)**	**3,968,006**
% Cyanophyta	**0.61**	% Cyanophyta	**0.01**
% Chlorophyta	**10.06**	% Chlorophyta	**0.97**
% Chrysophyta	**86.59**	% Chrysophyta	**95.01**
% Cryptophyta	**2.52**	% Cryptophyta	**0.88**
% Euglenophyta	**0.08**	% Euglenophyta	**0.11**
% Pyrrhophyta	**0.15**	% Pyrrhophyta	**3.02**

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 06/23/94
STATION: Sta B (0.5,1.5,2.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Chroococcus sp.	12.00	335	4,019	
Taxon Subtotal	**12**		**4,019**	
Chlorophyta				
Elakatothrix gelatinosa	8.00	117	938	
Pandorina morum	24.00	335	8,038	
Pandorina morum	4.00	1,641	6,565	colony broken
colonial green(sph)	24.00	523	12,560	
colonial green(sph)	48.00	113	5,426	
Taxon Subtotal	**108**		**33,527**	
Chrysophyta				
unicell chrysophyte (ell)	4.00	1,641	6,565	
Bacillariophyceae				
Asterionella formosa	8.00	371	2,972	
Cyclotella sp.	785.00	5,426	4,259,347	
Fragilaria crotonensis	120.00	683	81,960	
Synedra sp.	1.00	469	469	
Taxon Subtotal	**918**		**4,351,312**	
Cryptophyta				
Cryptomonas erosa	3.00	1,641	4,924	
Cryptomonas sp. (large)	1.00	4,836	4,836	
Cryptomonas sp.	2.00	1,758	3,517	
cryptomonad	5.00	1,641	8,206	
Rhodomonas sp.	6.00	366	2,198	
Taxon Subtotal	**17**		**23,680**	
Euglenophyta				
Trachelomonas sp. (sph,smooth)	1.00	4,187	4,187	
Taxon Subtotal	**1**		**4,187**	
Pyrrhophyta				
Ceratium hirundinella	1.00	60,000	60,000	
Taxon Subtotal	**1**		**60,000**	
Chloromonadophyta				

Total Number/ml	**1057**	**Total Volume (u3/ml)**	**4,476,725**
% Cyanophyta	**1.14**	% Cyanophyta	**0.09**
% Chlorophyta	**10.22**	% Chlorophyta	**0.75**
% Chrysophyta	**86.85**	% Chrysophyta	**97.20**
% Cryptophyta	**1.61**	% Cryptophyta	**0.53**
% Euglenophyta	**0.09**	% Euglenophyta	**0.09**
% Pyrrhophyta	**0.09**	% Pyrrhophyta	**1.34**

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A NOTE:
DATE: 7 July 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	4,538	0	2.5	11,344
Skistodiaptomus oregonensis	1.30	1.40	2,269	6.6	12	21,285
Epischura nevadensis	2.10		69	20	24	1,375
Order Cyclopoida						
Copepodid		0.6-0.7	1,994	0	2	3,988
Orthocyclops modestus	0.90	1.05	413	3	5	1,925
Diacyclops bicuspidatus thomasi	1.00	1.16	275	3	5.5	1,513
Mesocyclops edax	1.20	1.50	138	4.4	40	5,500
Nauplii (cal+cyc)		<.3	45,100	0	0.25	11,275
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	2,544	0	5	12,719
Daphnia pulex/pulicaria group		1.75	1,238	0	25	30,938
Daphnia sp. (pt helmt)	1.05	1.07	69	5	10	688
Diaphanosoma birgei		0.80	69	0	2.3	159
Bosmina longirostris (adult)		0.39	825	0	1.4	1,155
Leptodora kindtii			69	0	50	3,438
Class Insecta						
Order Diptera						
Chaoborus spp. (mod)		8.00	125	0	130	16,266
Chaoborus spp. (robust)		10.00	4	0	350	1,309
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	3,850	0	0.02	77
Keratella cochlearis		0.16	82,500	0	0.01	825
Keratella earlinae		0.21	1,100	0	0.02	22
Keratella hiemalis		0.14	11,825	0	0.04	473
Keratella quadrata		0.18	825	0	0.069	57
Type 2 (mostly illoricate virgates/incudates)						
Polyarthra sp. B		0.17	5,775	0	0.08	462
Polyarthra sp. B		0.19	1,100	0	0.1015	112
Trichocerca sp. A (bent)		0.17	1,375	0	0.03	41
Type 3 (mostly malleoramates)						
Conochilus sp.		0.14	7,150	0	0.012	86
Collotheca sp.		0.21	825	0	0.01	8
Filinia sp.		0.16	550	0	0.04	22
Pompholyx sp.		0.09	3,025	0	0.01	30
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	179,635	179.64	127,089	127.09
% Calanoid Copepods	3.83		26.76	
% Cyclopoid Copepods	1.57		10.17	
% Nauplii	25.11		8.87	
% Cladocerans	2.68		38.63	
% Rotifers	66.75		1.74	
% Dipterans	0.07		13.83	
Number of species	22			

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 7 Jul 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Dry wt. ug/male	Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	6,317	0	2.5	15,793
Skistodiaptomus oregonensis	1.26	1.54	4,930	6.6	12	45,020
Order Cyclopoida						
Copepodid		0.6-0.7	3,081	0	2	6,163
Orthocyclops modestus	0.90	1.12	462	3	5	2,003
Diacyclops bicuspidatus thomasi	1.00	1.16	1,695	3	5.5	8,936
Mesocyclops edax	1.20	1.50	308	4.4	40	12,326
Nauplii (cal+cyc)		<.3	40,676	0	0.25	10,169
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	5,393	0	5	26,963
Daphnia pulex/pulicaria group		1.75	1,849	0	25	46,222
Class Insecta						
Order Diptera						
Chaoborus spp. (robust)		10.00	7	0	350	2,588
Chaoborus spp. (mod)		8.00	67	0	130	8,653
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	8,012	0	0.02	160
Keratella cochlearis		0.16	105,387	0	0.01	1,054
Keratella earlinae		0.21	3,081	0	0.02	62
Keratella hiemalis		0.14	12,326	0	0.04	493
Keratella quadrata		0.18	616	0	0.07	43
Type 2 (mostly illoricate virgates/incudates)						
Ascomorpha sp.		0.12	308	0	0.02	6
Gastropus stylifer		0.11	616	0	0.03	18
Polyarthra sp. B		0.14	3,390	0	0.06	203
Trichocerca sp. A(bent)		0.18	924	0	0.03	28
Type 3 (mostly malleoramates)						
Conochilus sp.		0.10	5,547	0	0.012	67
Collotheca sp.			308	0	0.00624	2
Filinia sp.		0.18	308	0	0.045	14
Pompholyx sp.		0.09	5,239	0	0.01	52
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	210,847	210.85	187,039	187.04
% Calanoid Copepods	5.33		32.51	
% Cyclopoid Copepods	2.63		15.73	
% Nauplii	19.29		5.44	
% Cladocerans	3.43		39.13	
% Rotifers	69.27		1.18	
% Dipterans	0.04		6.01	
Number of species	19			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON NOTE:
DATE: 07/07/94
STATION: Sta A (0.5,1.5,2.5,3.5,4.5m comp SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	40.00	124	4,974	bean-shaped
Anabaena flos-aquae?	170.00	150	25,578	reg coil
Aphanizomenon flos-aquae	117.00	118	13,806	
Aphanocapsa sp.	180.00	4	754	
Taxon Subtotal	**507**		**45,111**	
Chlorophyta				
Dictyosphaerium sp.	8.00	268	2,144	
Elakatothrix gelatinosa	4.00	126	502	
Gloeocystis sp.	80.00	180	14,360	
Oocystis sp.	14.00	402	5,627	
green nanno unicell(sph)	2.00	1,436	2,872	
colonial nanno	20.00	1,846	36,926	(broken Pandorina?)
Taxon Subtotal	**128**		**62,432**	
Chrysophyta				
Mallomonas sp. A	1.00	3,693	3,693	
unicell chrysophyte (ell)	5.00	3,751	18,756	
Bacillariophyceae				
Asterionella formosa	56.00	371	20,802	
Cyclotella sp.	575.00	3,768	2,166,600	
Cyclotella sp.	30.00	4,396	131,880	
Fragilaria crotonensis	360.00	683	245,880	
Taxon Subtotal	**1027**		**2,587,611**	
Cryptophyta				
Cryptomonas erosa	7.00	2,227	15,591	
Cryptomonas sp.	8.00	1,641	13,129	
cryptomonad (Chroomonas?)	7.00	879	6,154	
Rhodomonas sp.	4.00	340	1,361	
Taxon Subtotal	**26**		**36,236**	
Euglenophyta				
Trachelomonas sp. 1(sph)	4.00	2,571	10,285	
Taxon Subtotal	**4**		**10,285**	
Pyrrhophyta				
Ceratium hirundinella	2.00	60,000	120,000	
Taxon Subtotal	**2**		**120,000**	
Chloromonadophyta				

Total Number/ml	**1694**	**Total Volume (u3/ml)**	**2,861,673**
% Cyanophyta	29.93	% Cyanophyta	1.58
% Chlorophyta	7.56	% Chlorophyta	2.18
% Chrysophyta	60.63	% Chrysophyta	90.42
% Cryptophyta	1.53	% Cryptophyta	1.27
% Euglenophyta	0.24	% Euglenophyta	0.36
% Pyrrhophyta	0.12	% Pyrrhophyta	4.19

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 07/07/94
STATION: Sta B (0.5,1.5,2.5,3.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	100.00	113	11,304	bean-shaped
Anabaena sp. A (strght chain)	240.00	382	91,562	
Anabaena flos-aquae?	130.00	150	19,559	reg coil
Aphanocapsa sp.	260.00	4	1,089	
Taxon Subtotal	**730**		**123,514**	
Chlorophyta				
Eudorina elegans	16.00	523	8,373	
Gloeocystis sp.	68.00	180	12,206	
Oocystis sp. (small)	16.00	188	3,014	
Oocystis sp. (unicell)	1.00	733	733	
* *Pandorina morum*	24.00	335	8,038	
Quadrigula sp.	48.00	366	17,584	
Taxon Subtotal	**173**		**49,949**	
Chrysophyta				
Bacillariophyceae				
Asterionella formosa	40.00	371	14,858	
Cyclotella sp.	600.00	5,426	3,255,552	
Cyclotella sp.	10.00	6,330	63,302	
Fragilaria crotonensis	295.00	683	201,485	
Melosira sp. A	4.00	1,780	7,122	
Taxon Subtotal	**949**		**3,542,319**	
Cryptophyta				
Cryptomonas erosa	10.00	1,641	16,412	
cryptomonad (Chroomonas?)	4.00	879	3,517	
Taxon Subtotal	**14**		**19,929**	
Euglenophyta				
Trachelomonas sp. 1(sph)	3.00	2,571	7,713	
Trachelomonas sp. 2 (sph)	4.00	4,187	16,747	
Taxon Subtotal	**7**		**24,460**	
Pyrrhophyta				
Gymnodinium sp.	1.00	9,420	9,420	
Ceratium hirundinella	4.00	60,000	240,000	
Taxon Subtotal	**5**		**249,420**	
Chloromonadophyta				

Total Number/ml	**1878**	**Total Volume (u3/ml)**	**4,009,591**
% Cyanophyta	**38.87**	% Cyanophyta	**3.08**
% Chlorophyta	**9.21**	% Chlorophyta	**1.25**
% Chrysophyta	**50.53**	% Chrysophyta	**88.35**
% Cryptophyta	**0.75**	% Cryptophyta	**0.50**
% Euglenophyta	**0.37**	% Euglenophyta	**0.61**
% Pyrrhophyta	**0.27**	% Pyrrhophyta	**6.22**

Note: *=colony/ml

KING COUNTY
SURFACE WATER MANAGEMENT DIVISION
RECEIVED
JAN 26 1995

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 21 Jul 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	5,724		2.5	14,311
Skistodiaptomus oregonensis	1.26	1.54	2,489	6.6	12	26,507
Epischura nevadensis		2.10	149	13	27	4,032
Order Cyclopoida						
Copepodid		0.6-0.7	5,973		2	11,947
Orthocyclops modestus	0.90	1.12	249	3	5	1,244
Diacyclops bicuspidatus thomasi	1.00	1.16	622	3	5.5	3,422
Mesocyclops edax	1.20	1.60	747	4.4	40	16,576
Nauplii (cal+cyc)		<.3	44,800		0.25	11,200
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	3,733		5	18,667
Daphnia pulex/pulicaria group		1.75	2,738		27	73,920
Daphnia galeata mendotae		1.75	124	8	27	3,360
Bosmina longirostris (adult)		0.35	622		1.2	747
Class Insecta						
Order Diptera						
Chaoborus spp. (robust)		9.0-10.0	67		350	23,520
Chaoborus spp. (mod)		6.00	7		100	747
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	3,982		0.02	80
Keratella cochlearis		0.16	29,867		0.01	299
Keratella earlinae		0.21	1,493		0.02	30
Keratella hiemalis		0.14	5,227		0.04	209
Keratella quadrata		0.18	498		0.07	35
Type 2 (mostly illoricate virgates/incudates)						
Ascomorpha sp.		0.12	747		0.02	15
Gastropus stylifer		0.11	498		0.03	15
Polyarthra sp. B		0.17	2,738		0.08	219
Trichocerca sp. A(bent)		0.18	996		0.03	30
Type 3 (mostly malleoramates)						
Conochilus sp.		0.10	10,951		0.012	131
Collotheca sp.			498		0.00624	3
Filinia sp.		0.18	249		0.045	11
Pompholyx sp.		0.09	4,231		0.01	42
Others						

	Total Density #/m3		Biomass ug/L
	130,020	130	211.32
% Calanoid Copepods	6.43		
% Cyclopoid Copepods	5.84		
% Nauplii	34.46		
% Cladocerans	5.55		
% Rotifers	47.66		
% Dipterans	0.06		
Number of species	22		

Hi Bob —
Wanted to get these to you pronto —
Invoice you next time
Mari beth

LAKE SAWYER PHASE I

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE:

DATE: 21 July 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	3,055		2.5	7,638
Skistodiaptomus oregonensis	1.30	1.40	2,350	6.6	12	23,759
Order Cyclopoida						
Copepodid		0.6-0.7	1,410		2	2,820
Orthocyclops modestus	0.90	1.05	588	3	5	2,468
Diacyclops bicuspidatus thomasi	1.00	1.16	235	3	5.5	999
Mesocyclops edax	1.00	1.33	470	4	30	7,990
Nauplii (cal+cyc)		<.3	21,150		0.25	5,288
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	1,410		5	7,050
Daphnia pulex/pulicaria group		1.75	588		27	15,863
Class Insecta						
Order Diptera						
Chaoborus spp. (mod)		6.00	118		100	11,750
Chaoborus spp. (robust)		9.0-10.0	118		350	41,125
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	2,115		0.02	42
Keratella cochlearis		0.16	17,155		0.01	172
Keratella earlinae		0.21	1,175		0.02	24
Keratella hiemalis		0.14	3,995		0.04	160
Type 2 (mostly illoricate virgates/incudates)						
Ascomorpha sp.		0.12	235		0.023	5
Polyarthra sp. B		0.14	1,645		0.06	99
Trichocerca sp. A (bent)		0.17	470		0.03	14
Type 3 (mostly malleoramates)						
Conochilus sp.		0.14	3,525		0.012	42
Collotheca sp.		0.21	235		0.01	2
Pompholyx sp.		0.09	235		0.01	2
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	62,275	62.28	127,310	127.31
% Calanoid Copepods	8.68		24.66	
% Cyclopoid Copepods	4.34		11.21	
% Nauplii	33.96		4.15	
% Cladocerans	3.21		18.00	
% Rotifers	49.43		0.44	
% Dipterans	0.38		41.53	
Number of species	16			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 07/21/94
STATION: Sta A (1,2,3,4m comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	50.00	151	7,536	bean-shaped
Anabaena flos-aquae?	60.00	150	9,027	reg coil
Aphanizomenon flos-aquae	481.00	118	56,758	
Aphanocapsa sp.	1,300.00	4	5,443	13 colonies
Chroococcus sp.	20.00	628	12,560	
Taxon Subtotal	**1911**		**91,324**	
Chlorophyta				
Ankistrodesmus falcatus	2.00	46	91	
Elakatothrix gelatinosa	4.00	126	502	
Gloeocystis sp.	32.00	180	5,744	
Oocystis sp.	1.00	2,051	2,051	
Pandorina morum	6.00	1,641	9,847	colony broken
Quadrigula sp.	24.00	201	4,823	
* *Scenedesmus sp.*	1.00	628	628	
Sphaerocystis shroeteri	48.00	113	5,426	
Taxon Subtotal	**118**		**29,113**	
Chrysophyta				
Dinobryon sp.	16.00	1,266	20,263	
Bacillariophyceae				
Asterionella formosa	2.00	371	743	
Cyclotella sp.	230.00	3,140	722,200	
Fragilaria crotonensis	50.00	683	34,150	
Taxon Subtotal	**298**		**777,356**	
Cryptophyta				
Cryptomonas ovata	2.00	2,261	4,522	
Cryptomonas sp.	3.00	1,289	3,868	
Rhodomonas sp.	3.00	340	1,021	
Rhodomonas sp. (tiny)	4.00	94	377	
Taxon Subtotal	**12**		**9,787**	
Euglenophyta				
Trachelomonas sp. (ell)	1.00	4,605	4,605	
Taxon Subtotal	**1**		**4,605**	
Pyrrhophyta				
Ceratium hirundinella	4.00	60,000	240,000	
Taxon Subtotal	**4**		**240,000**	
Chloromonadophyta				

Total Number/ml	**2344**	**Total Volume (u3/ml)**	**1,152,186**
% Cyanophyta	**81.53**	% Cyanophyta	**7.93**
% Chlorophyta	**5.03**	% Chlorophyta	**2.53**
% Chrysophyta	**12.71**	% Chrysophyta	**67.47**
% Cryptophyta	**0.51**	% Cryptophyta	**0.85**
% Euglenophyta	**0.04**	% Euglenophyta	**0.40**
% Pyrrhophyta	**0.17**	% Pyrrhophyta	**20.83**

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 07/21/94
STATION: Sta B (1,2,3,4m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	10.00	170	1,696	bean-shaped
Anabaena flos-aquae?	190.00	150	28,587	reg coil
Aphanizomenon flos-aquae	26.00	118	3,068	
Aphanocapsa sp.	1,200.00	4	5,024	24 colonies
Chroococcus sp.	8.00	628	5,024	
Taxon Subtotal	**1434**		**43,398**	
Chlorophyta				
Clamydomonas sp.	1.00	1,641	1,641	
Elakatothrix gelatinosa	8.00	117	938	
Gloeocystis sp.	8.00	180	1,436	
Pandorina morum	1.00	4,187	4,187	tiny colony
Pandorina morum	5.00	1,641	8,206	colony broken
Sphaerocystis shroeteri	56.00	150	8,426	
green nanno unicell(sph)	4.00	1,436	5,744	
Taxon Subtotal	**83**		**30,577**	
Chrysophyta				
Bacillariophyceae				
Cyclotella sp.	218.00	3,140	684,520	
Fragilaria crotonensis	55.00	683	37,565	
Synedra sp.	1.00	368	368	
Taxon Subtotal	**274**		**722,453**	
Cryptophyta				
Cryptomonas sp.	8.00	1,524	12,192	
Cryptomonas ovata	2.00	3,014	6,029	
cryptomonad (Rhodomonas?)	11.00	340	3,742	
Rhodomonas sp. (tiny)	44.00	94	4,145	
Taxon Subtotal	**65**		**26,107**	
Euglenophyta				
Pyrrhophyta				
Ceratium hirundinella	6.00	60,000	360,000	
Taxon Subtotal	**6**		**360,000**	
Chloromonadophyta				

Total Number/ml	**1862**	**Total Volume (u3/ml)**	**1,182,536**
% Cyanophyta	77.01	% Cyanophyta	3.67
% Chlorophyta	4.46	% Chlorophyta	2.59
% Chrysophyta	14.72	% Chrysophyta	61.09
% Cryptophyta	3.49	% Cryptophyta	2.21
% Pyrrhophyta	0.32	% Pyrrhophyta	30.44

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 08/04/94
STATION: Sta A (1,2,3,4m comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	155.00	151	23,362	bean-shaped
Anabaena circinalis	155.00	150	23,321	reg coil
Anabaena sp. A (strght chain)	357.00	523	186,830	
Aphanizomenon flos-aquae	13.00	118	1,534	
Aphanothece sp.	100.00	6	628	
Chroococcus sp.	8.00	335	2,679	
Chroococcus sp.	4.00	50	201	
Coelosphaerium Naegelianum	400.00	14	5,652	
Taxon Subtotal	**1192**		**244,207**	
Chlorophyta				
Characium sp.	1.00	528	528	
Elakatothrix gelatinosa	2.00	126	251	
Pandorina morum	16.00	182	2,918	
Pandorina morum	4.00	1,641	6,565	colony broken
Quadrigula sp.	40.00	340	13,607	
Scenedesmus sp.	1.00	628	628	
Sphaerocystis shroeteri	32.00	113	3,617	
green nanno unicell(sph)	2.00	1,436	2,872	
Taxon Subtotal	**98**		**30,985**	
Chrysophyta				
Dinobryon sp.	30.00	1,178	35,325	
Bacillariophyceae				
Cyclotella sp.	125.00	3,140	392,500	
Cyclotella sp.	6.00	678	4,069	
Fragilaria crotonensis	35.00	683	23,905	
Taxon Subtotal	**196**		**455,799**	
Cryptophyta				
Cryptomonas erosa	7.00	1,758	12,309	
cryptomonad (Chroomonas?)	6.00	791	4,748	
Rhodomonas sp. (tiny)	77.00	94	7,253	
Taxon Subtotal	**90**		**24,310**	
Euglenophyta				
Trachelomonas sp. (ell)	1.00	4,605	4,605	
Trachelomonas sp. 1(sph)	2.00	2,571	5,142	
Taxon Subtotal	**3**		**9,748**	
Pyrrhophyta				
Ceratium hirundinella	1.00	60,000	60,000	
Taxon Subtotal	**1**		**60,000**	
Chloromonadophyta				

Total Number/ml	**1580**	**Total Volume (u3/ml)**	**825,049**
% Cyanophyta	75.44	% Cyanophyta	29.60
% Chlorophyta	6.20	% Chlorophyta	3.76
% Chrysophyta	12.41	% Chrysophyta	55.25
% Cryptophyta	5.70	% Cryptophyta	2.96
% Euglenophyta	0.19	% Euglenophyta	1.18
% Pyrrhophyta	0.06	% Pyrrhophyta	7.27

Note: *=colony/ml

7/21/94 da
sent earlie
mc

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 08/04/94
STATION: Sta B (1,2,3,4m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	110.00	170	18,652	bean-shaped
Anabaena circinalis	165.00	150	24,825	reg coil
Anabaena sp. A (strght chain)	189.00	523	98,910	
Aphanothece sp.	180.00	6	1,130	
Chroococcus sp.	12.00	150	1,805	
Coelosphaerium Naegelianum	200.00	14	2,826	
Taxon Subtotal	**856**		**148,149**	
Chlorophyta				
Cosmarium sp. A	1.00	5,744	5,744	
Gloeocystis sp.	16.00	151	2,412	
Gloeocystis sp.	48.00	335	16,077	
Pandorina morum	8.00	113	904	
Pandorina morum	2.00	1,641	3,282	colony broken
Quadrigula sp.	88.00	340	29,935	
Sphaerocystis shroeteri	76.00	150	11,435	
green nanno unicell(sph)	4.00	904	3,617	
Taxon Subtotal	**243**		**73,406**	
Chrysophyta				
Mallomonas sp. A	1.00	3,165	3,165	
Bacillariophyceae				
Cyclotella sp.	122.00	3,140	383,080	
Fragilaria crotonensis	10.00	683	6,830	
Taxon Subtotal	**133**		**393,075**	
Cryptophyta				
Cryptomonas sp.	13.00	1,524	19,811	
cryptomonad (Chroomonas?)	6.00	678	4,069	
cryptomonad (Rhodomonas?)	8.00	340	2,721	
Rhodomonas sp. (tiny)	110.00	94	10,362	
Taxon Subtotal	**137**		**36,964**	
Euglenophyta				
Trachelomonas sp. 1(sph)	1.00	2,571	2,571	
Trachelomonas sp. 2 (sph)	1.00	4,187	4,187	
Taxon Subtotal	**2**		**6,758**	
Pyrrhophyta				
Ceratium hirundinella	3.00	60,000	180,000	
Taxon Subtotal	**3**		**180,000**	
Chloromonadophyta				

Total Number/ml	**1374**	**Total Volume (u3/ml)**	**838,351**
% Cyanophyta	62.30	% Cyanophyta	17.67
% Chlorophyta	17.69	% Chlorophyta	8.76
% Chrysophyta	9.68	% Chrysophyta	46.89
% Cryptophyta	9.97	% Cryptophyta	4.41
% Euglenophyta	0.15	% Euglenophyta	0.81
% Pyrrhophyta	0.22	% Pyrrhophyta	21.47

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A NOTE:
DATE: 4 Aug 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	1,750	0	2.5	4,375
Skistodiaptomus oregonensis	1.30	1.40	2,500	5.6	12	23,250
Order Cyclopoida						
Copepodid		0.6-0.7	6,250	0	2	12,500
Orthocyclops modestus	0.90	1.05	125	3	5	625
Diacyclops bicuspidatus thomasi	1.00	1.16	125	3	5.5	688
Mesocyclops edax	1.00	1.60	375	4	40	10,500
Nauplii (cal+cyc)		<.3	23,750	0	0.25	5,938
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	2,150	0	5	10,750
Daphnia pulex/pulicaria group		1.54	875	0	16	14,000
Daphnia galeata mendotae		1.54	250	8	16	4,000
Class Insecta						
Order Diptera						
Chaoborus spp. (mod)		6.00	50	0	100	5,000
Chaoborus spp. (robust)		9.0-10.0	50	0	350	17,500
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	3,250	0	0.02	65
Keratella cochlearis		0.16	6,750	0	0.01	68
Keratella earlinae		0.21	1,000	0	0.02	20
Keratella hiemalis		0.14	750	0	0.04	30
Type 2 (mostly lilloricate virgates/incudates)						
Ascomorpha sp.		0.12	250	0	0.023	6
Polyarthra sp. B		0.15	5,000	0	0.7	3,500
Polyarthra sp. B		0.17	250	0	0.09	23
Type 3 (mostly malleoramates)						
Conochilus sp.		0.21	500	0	0.02	10
Collotheca sp.		0.21	500	0	0.01	5
Filinia sp.		0.16	250	0	0.04	10
Pompholyx sp.		0.09	1,500	0	0.01	15
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	58,250	58.25	112,876	112.88
% Calanoid Copepods	7.30		24.47	
% Cyclopoid Copepods	11.80		21.54	
% Nauplii	40.77		5.28	
% Cladocerans	5.62		25.47	
% Rotifers	34.33		3.32	
% Dipterans	0.17		19.93	

Number of species 17

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 4 Aug 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	6,222	0	2.5	15,556
Skistodiaptomus oregonensis	1.26	1.54	1,778	6.6	12	18,133
Order Cyclopoida						
Copepodid		0.6-0.7	2,667	0	2	5,333
Orthocyclops modestus	0.90	1.12	296	3	5	1,185
Mesocyclops edax	1.20	1.60	444	4.4	40	12,504
Nauplii (cal+cyc)		<.3	44,444	0	0.25	11,111
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	1,778	0	5	8,889
Daphnia pulex/pulicaria group		1.75	3,556	0	27	96,000
Daphnia galeata mendotae		1.50	148	8	16	2,370
Ceriodaphnia sp.		0.70	148	0	4	593
Bosmina longirostris (adult)		0.35	296	0	1.2	356
Class Insecta						
Order Diptera						
Chaoborus spp. (robust)		9.0-10.0	22	0	350	7,778
Chaoborus spp. (mod)		6.00	30	0	100	2,963
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	7,111	0	0.02	142
Keratella cochlearis		0.16	18,370	0	0.01	184
Keratella earlinae		0.21	296	0	0.02	6
Keratella hiemalis		0.14	3,556	0	0.04	142
Keratella quadrata		0.18	593	0	0.07	41
Type 2 (mostly illoricate virgates/incudates)						
Ascomorpha sp.		0.12	889	0	0.02	18
Gastropus stylifer		0.11	889	0	0.03	27
Polyarthra sp. A		0.10	889	0	0.03	27
Polyarthra sp. B		0.14	5,037	0	0.06	302
Polyarthra sp. B		0.17	1,778	0	0.09	160
Trichocerca sp. A(bent)		0.18	593	0	0.03	18
Type 3 (mostly malleoramates)						
Conochilus sp.		0.21	889	0	0.02	18
Filinia sp.		0.18	2,074	0	0.045	93
Pompholyx sp.		0.09	5,630	0	0.01	56
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	110,422	110.42	184,004	184.00
% Calanoid Copepods	7.24		18.31	
% Cyclopoid Copepods	3.09		10.34	
% Nauplii	40.25		6.04	
% Cladocerans	5.37		58.81	
% Rotifers	44.01		0.67	
% Dipterans	0.05		5.84	

Number of species 21

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A NOTE:
DATE: 18 Aug 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	Comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	930	0	2.5	2,325	
Skistodiaptomus oregonensis	1.30	1.40	1,279	6.6	12	13,462	
Order Cyclopoida							
Copepodid		0.6-0.7	6,510	0	2	13,020	
Orthocyclops modestus	0.90	1.05	116	3	5	581	
Diacyclops bicuspidatus thomasi	1.00	1.16	349	3	5.5	1,628	
Mesocyclops edax	1.00	1.60	233	4	40	930	
Nauplii (cal+cyc)		<.3	12,788	0	0.25	3,197	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	3,023	0	5	15,113	
Daphnia pulex/pulicaria group		1.68	814	0	22	17,903	
Daphnia galeata mendotae		1.40	1,395	8	16	22,320	tall helmets
Diaphanosoma birgei		0.77	116	0	2.3	267	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		9.0-10.0	81	0	350	28,481	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	1,628	0	0.02	33	
Keratella cochlearis		0.16	5,580	0	0.01	56	
Keratella earlinae		0.21	233	0	0.02	5	
Keratella hiemalis		0.14	465	0	0.04	19	
Type 2 (mostly illoricate virgates/incudates)							
Gastropus stylifer		0.12	1,395	0	0.03	42	
Polyarthra sp. B		0.15	8,138	0	0.7	5,696	
Polyarthra sp. B		0.21	3,023	0	0.15	453	
Synchaeta sp.		0.12	233	0	0.02	5	
Trichocerca sp. B (strait)		0.12	233	0	0.016	4	
Type 3 (mostly malleoramates)							
Collotheca sp.		0.21	698	0	0.01	7	
Filinia sp.		0.16	233	0	0.04	9	
Pompholyx sp.		0.09	1,395	0	0.01	14	
Others							

	Total Density #/m3	Total Density #/L	Total Dry Wt. Biomass ug/m3	Total Dry Wt. Biomass ug/L
	50,883	**50.88**	**125,568**	**125.57**
% Calanoid Copepods	4.34		12.57	
% Cyclopoid Copepods	14.16		12.87	
% Nauplii	25.13		2.55	
% Cladocerans	10.51		44.28	
% Rotifers	45.69		5.05	
% Dipterans	0.16		22.68	
Number of species	19			

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ACCOUNTS PAYABLE
FEB 27 1995
FINANCE PUBLIC WORKS
SWM

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE:

DATE: 18 Aug 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	Comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	1,582	0	2.5	3,956	
Skistodiaptomus oregonensis	1.26	1.54	1,108	6.6	12	12,721	
Order Cyclopoida							
Copepodid		0.6-0.7	4,852	0	2	9,704	
Orthocyclops modestus	0.90	1.12	53	3	5	264	
Diacyclops bicuspidatus thomasi	1.00	1.16	53	3	5.5	290	
Mesocyclops edax	1.20	1.60	211	4.4	40	6,561	
Nauplii (cal+cyc)		<.3	14,767	0	0.25	3,692	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,319	0	5	6,593	
Daphnia pulex/pulicaria group		1.75	1,180	0	27	31,328	
Daphnia galeata mendotae		1.40	316	8	16	5,063	tall helmets
Diaphanosoma birgei		0.77	264	0	2.3	607	
Bosmina longirostris (adult)		0.39	264	0	1.4	369	
Bosmina longirostris (juv)		0.28	264	0	0.7	185	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		9.0-10.0	30	0	350	10,337	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	2,901	0	0.02	58	
Keratella cochlearis		0.16	7,384	0	0.01	74	
Keratella hiemalis		0.14	264	0	0.04	11	
Keratella quadrata		0.18	264	0	0.07	18	
Type 2 (mostly lilorlcate virgates/incudates)							
Ascomorpha sp.		0.16	1,846	0	0.05	92	
Ascomorpha sp. (Chromogaster)		0.11	264	0	0.023	6	
Gastropus stylifer		0.11	2,637	0	0.03	79	
Polyarthra sp. B		0.14	5,274	0	0.06	316	
Polyarthra sp. B		0.21	1,582	0	0.11	174	
Synchaeta sp. (small)		0.10	527	0	0.015	8	
Trichocerca sp. A(bent)		0.14	264	0	0.025	7	
Trichocerca sp. B(strait)		0.18	527	0	0.022	12	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.14	264	0	0.015	4	
Collotheca sp.			527	0	0.00624	3	
Filinia sp.		0.18	1,846	0	0.045	83	
Pompholyx sp.		0.09	2,373	0	0.01	24	

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	54,985	54.99	92,638	92.64
% Calanoid Copepods	4.89		18.00	
% Cyclopoid Copepods	9.40		18.16	
% Nauplii	26.86		3.99	
% Cladocerans	6.52		47.65	
% Rotifers	52.28		1.05	
% Dipterans	0.05		11.16	

Number of species 24

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 08/18/94
STATION: Sta A (comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	120.00	151	18,086	bean-shaped
Anabaena circinalis	520.00	150	78,237	reg coil
Anabaena sp. A (strght chain)	183.00	523	95,770	
Aphanizomenon flos-aquae	195.00	118	23,010	
Aphanocapsa sp.	80.00	4	335	2 colonies
Aphanothece sp.	200.00	6	1,256	
Chroococcus sp.	22.00	335	7,369	
Chroococcus sp.	48.00	50	2,412	
Taxon Subtotal	**1368**		**226,475**	
Chlorophyta				
Clamydomonas sp.	1.00	3,391	3,391	
Eudorina elegans	2.00	904	1,809	
Gloeocystis sp.	32.00	180	5,744	
Oocystis sp.	4.00	733	2,931	
Quadrigula sp.	6.00	340	2,041	
Shroederia sp.	3.00	85	256	
Sphaerocystis shroetari	16.00	113	1,809	
Taxon Subtotal	**64**		**17,981**	
Chrysophyta				
Dinobryon divergens	66.00	1,178	77,715	
Gloeobotrys limneticus	14.00	124	1,741	
Bacillariophyceae				
Asterionella formosa	16.00	371	5,943	
Cyclotella sp.	162.00	2,543	412,031	
Cyclotella sp.	1.00	5,307	5,307	
Fragilaria crotonensis	5.00	683	3,415	
Synedra sp.	1.00	419	419	
Taxon Subtotal	**265**		**506,570**	
Cryptophyta				
Cryptomonas erosa	8.00	1,641	13,129	
cryptomonad (Chroomonas?)	4.00	791	3,165	
Rhodomonas sp.	5.00	340	1,701	
Rhodomonas sp. (tiny)	33.00	94	3,109	
Taxon Subtotal	**50**		**21,104**	
Euglenophyta				
Pyrrhophyta				
Peridinium sp. (tiny)	4.00	615	2,462	
Ceratium hirundinella	4.00	60,000	240,000	
Taxon Subtotal	**8**		**242,462**	
Chloromonadophyta				

Total Number/ml	1755	Total Volume (u3/ml)	1,014,591
% Cyanophyta	77.95	% Cyanophyta	22.32
% Chlorophyta	3.65	% Chlorophyta	1.77
% Chrysophyta	15.10	% Chrysophyta	49.93
% Cryptophyta	2.85	% Cryptophyta	2.08
% Pyrrhophyta	0.46	% Pyrrhophyta	23.90

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 08/18/94
STATION: Sta B (comp)

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	110.00	170	18,652	bean-shaped
Anabaena circinalis	440.00	180	78,981	reg coil
Anabaena spiroides	60.00	268	16,077	
Anabaena sp. A (strght chain)	120.00	523	62,800	
Aphanizomenon flos-aquae	156.00	118	18,408	
Aphanothece sp.	600.00	6	3,768	
Chroococcus sp.	24.00	150	3,611	
Chroococcus sp.	4.00	335	1,340	
Taxon Subtotal	**1514**		**203,637**	
Chlorophyta				
Glamydomonas sp.	1.00	3,391	3,391	
Eudorina elegans	8.00	1,436	11,488	
Eudorina elegans	16.00	268	4,287	
Gloeocystis sp.	20.00	79	1,570	
Pandorina morum	24.00	151	3,617	
Quadrigula sp.	2.00	340	680	
Sphaerocystis shroeteri	16.00	150	2,407	
green nanno unicell(sph)	1.00	904	904	
colonial green(flag-sph)	4.00	523	2,093	
colonial green(lamel-sph)	1.00	904	904	
Taxon Subtotal	**93**		**31,343**	
Chrysophyta				
Dinobryon divergens	80.00	1,047	83,733	
Gloeobotrys limneticus	16.00	124	1,990	
Bacillariophyceae				
Cyclotella sp.	130.00	2,289	297,578	
Fragilaria crotonensis	100.00	683	68,300	
Synedra sp.	1.00	502	502	
Taxon Subtotal	**327**		**452,103**	
Cryptophyta				
Cryptomonas sp.	6.00	1,641	9,847	
cryptomonad (Chroomonas?)	10.00	678	6,782	
cryptomonad (Rhodomonas?)	6.00	340	2,041	
Rhodomonas sp. (tiny)	2.00	94	188	
Taxon Subtotal	**24**		**18,859**	
Euglenophyta				
Trachelomonas sp. 1(sph)	1.00	2,571	2,571	
Trachelomonas sp. 2 (sph)	1.00	7,235	7,235	
Taxon Subtotal	**2**		**9,806**	
Pyrrhophyta				
Ceratium hirundinella	2.00	60,000	120,000	
Taxon Subtotal	**2**		**120,000**	
Chloromonadophyta				

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Total Number/ml	**1962**	**Total Volume (u3/ml)**	**835,748**
% Cyanophyta	77.17	% Cyanophyta	24.37
% Chlorophyta	4.74	% Chlorophyta	3.75
% Chrysophyta	16.67	% Chrysophyta	54.10
% Cryptophyta	1.22	% Cryptophyta	2.26
% Euglenophyta	0.10	% Euglenophyta	1.17
% Pyrrhophyta	0.10	% Pyrrhophyta	14.36

Note: *=colony/ml

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: Ceratium/Lyngbya filaments in sample

DATE: 8 Sep 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	Comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	602	0	2.5	1,504	
Skistodiaptomus oregonensis	1.30	1.40	902	6.6	12	10,287	
Order Cyclopoida							
Copepodid		0.6-0.7	4,011	0	2	8,021	
Orthocyclops modestus	0.90	1.05	201	3	5	1,003	
Diacyclops bicuspidatus thomasi	1.00	1.16	301	3	5.5	1,654	
Mesocyclops edax	1.00	1.60	802	4	40	21,257	
Nauplii (cal+cyc)		<.3	8,523	0	0.25	2,131	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	2,005	0	5	10,027	
Daphnia pulex/pulicaria group		1.60	301	0	20	6,016	
Daphnia galeata mendotae		1.47	1,504	8	20	30,080	pt helmets
Bosmina longirostris (adult)		0.39	201	0	1.4	281	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		8.0-10.0	80	0	350	28,075	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	1,504	0	0.02	30	
Keratella cochlearis		0.16	8,523	0	0.01	85	
Keratella hiemalis		0.14	1,504	0	0.04	60	
Type 2 (mostly illoricate virgates/incudat							
Ascomorpha sp.		0.14	501	0	0.05	25	
Asplanchna sp.		0.56	100	0	3.6	361	
Chromogaster sp.			1,003	0	0.023	23	
Gastropus stylifer		0.12	1,003	0	0.03	30	
Polyarthra sp. B		0.15	13,536	0	0.7	9,475	
Polyarthra sp. B		0.21	5,515	0	0.15	827	
Trichocerca sp. B (strait)		0.18	2,005	0	0.022	44	
Type 3 (mostly malleoramates)							
Collotheca sp.		0.21	501	0	0.01	5	
Filinia sp.		0.16	3,008	0	0.04	120	
Pompholyx sulcata		0.09	1,003	0	0.01	10	
Others							

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	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	59,137	**59.14**	**131,432**	**131.43**
% Calanoid Copepods	2.54		8.97	
% Cyclopoid Copepods	8.99		24.30	
% Nauplii	14.41		1.62	
% Cladocerans	6.78		35.31	
% Rotifers	67.14		8.44	
% Dipterans	0.14		21.36	
Number of species	**20**			

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 8 Sep 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	123	0	2.5	307	
Skistodiaptomus oregonensis	1.26	1.54	613	6.6	12	6,035	
Order Cyclopoida							
Copepodid		0.6-0.7	6,133	0	2	12,267	
Orthocyclops modestus	0.90	1.12	368	3	5	1,840	
Diacyclops bicuspidatus thomasi	1.00	1.16	859	3	5.5	4,416	
Mesocyclops edax	1.20	1.60	123	4.4	40	4,907	
Nauplii (cal+cyc)		<.3	11,653	0	0.25	2,913	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	4,907	0	5	24,533	
Daphnia pulex/pulicaria group		1.68	859	0	22	18,891	
Daphnia galeata mendotae		1.47	123	8	17	2,085	pt helmets
Bosmina longirostris (adult)		0.39	613	0	1.4	859	
Bosmina longirostris (juv)		0.28	613	0	0.7	429	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		10.00	1	0	350	451	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	3,067	0	0.02	61	
Keratella cochlearis		0.16	16,560	0	0.01	166	
Keratella hiemalis		0.14	613	0	0.04	25	
Type 2 (mostly lloricate virgates/incudat							
Ascomorpha sp.		0.16	10,427	0	0.05	521	
Ascomorpha sp. (Chromogaster)		0.11	613	0	0.023	14	
Gastropus stylifer		0.11	1,227	0	0.03	37	
Polyarthra sp. A		0.10	1,227	0	0.03	37	
Polyarthra sp. B		0.14	11,040	0	0.06	662	
Trichocerca sp. B(strait)		0.18	613	0	0.022	13	
Type 3 (mostly malleoramates)							
Filinia sp.		0.16	6,747	0	0.045	304	
Pompholyx sulcata		0.09	1,840	0	0.01	18	
Others							

	Total Density #/m3	Total Density #/L	Total Dry Wt. Biomass ug/m3	Total Dry Wt. Biomass ug/L
	80,961	**80.96**	**81,791**	**81.79**
% Calanoid Copepods	0.91		7.75	
% Cyclopoid Copepods	9.24		28.65	
% Nauplii	14.39		3.56	
% Cladocerans	8.79		57.22	
% Rotifers	66.67		2.27	
% Dipterans	0.00		0.55	
Number of species	19			

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LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 09/08/94
STATION: Sta A (0.5,1.5,2.5,3.5,4.5m comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	30.00	151	4,522	bean-shaped
Anabaena circinalis	640.00	150	96,292	reg coil
Anabaena spiroides	20.00	523	10,467	
Anabaena sp. A (strght chain)	100.00	523	52,333	
Aphanizomenon flos-aquae	832.00	118	98,176	
Aphanocapsa sp.	180.00	4	754	
Aphanothece sp.	1,700.00	6	10,676	
Chroococcus sp.	24.00	79	1,884	
Coelosphaerium Naegelianum	400.00	14	5,652	2 colonies
Merismopedia sp.	16.00	4	67	
Taxon Subtotal	**3942**		**280,822**	
Chlorophyta				
Gloeocystis sp.	4.00	268	1,072	
Oocystis sp.	10.00	733	7,327	
Oocystis sp. (unicell)	3.00	2,051	6,154	
Taxon Subtotal	**17**		**14,553**	
Chrysophyta				
Dinobryon sociale	31.00	1,047	32,447	
Dinobryon divergens	37.00	1,178	43,568	
Gloeobotrys limneticus	384.00	124	47,748	
Rhizochrysis limnetica	1.00	9,198	9,198	
unicell chrysophyte (all)	55.00	1,608	88,422	
Bacillariophyceae				
Asterionella formosa	232.00	371	86,179	
Cyclotella sp.	15.00	2,543	38,151	
Fragilaria crotonensis	10.00	683	6,830	
Taxon Subtotal	**765**		**352,543**	
Cryptophyta				
Cryptomonas erosa	2.00	1,524	3,048	
Cryptomonas sp.	2.00	3,014	6,029	
cryptomonad (Chroomonas?)	5.00	791	3,956	
Rhodomonas sp. (tiny)	5.00	94	471	
Taxon Subtotal	**14**		**13,504**	
Euglenophyta				
Trachelomonas sp. 1(sph)	2.00	2,571	5,142	
Taxon Subtotal	**2**		**5,142**	
Pyrrhophyta				
Ceratium hirundinella	12.00	60,000	720,000	
Taxon Subtotal	**12**		**720,000**	
Chloromonadophyta				

Total Number/ml	**4752**	**Total Volume (u3/ml)**	**1,386,564**
% Cyanophyta	82.95	% Cyanophyta	20.25
% Chlorophyta	0.36	% Chlorophyta	1.05
% Chrysophyta	16.10	% Chrysophyta	25.43
% Cryptophyta	0.29	% Cryptophyta	0.97
% Euglenophyta	0.04	% Euglenophyta	0.37
% Pyrrhophyta	0.25	% Pyrrhophyta	51.93

Note: *=colony/ml

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LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 09/08/94
STATION: Sta B (0.5,1.5,2.5,3.5,4.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	70.00	151	10,550	bean-shaped
Anabaena circinalis	470.00	180	84,367	reg coil
Anabaena sp. A (strght chain)	70.00	523	36,633	
Aphanizomenon flos-aquae	559.00	118	65,962	
Aphanocapsa sp.	60.00	4	251	
Aphanothece sp.	1,400.00	6	8,792	
Chroococcus sp.	42.00	335	14,067	
Coelosphaerium Naegelianum	600.00	14	8,478	3 colonies
Taxon Subtotal	**3271**		**229,101**	
Chlorophyta				
Cosmarium sp. A	2.00	5,744	11,488	
Elakatothrix gelatinosa	4.00	117	469	
Gloeocystis sp.	16.00	335	5,359	
Nephrocytium sp.	4.00	402	1,608	
Oocystis sp. (small)	6.00	256	1,539	
Taxon Subtotal	**32**		**20,462**	
Chrysophyta				
Dinobryon sociale	30.00	1,047	31,400	
Dinobryon divergens	56.00	1,047	58,613	
Gloeobotrys limneticus	592.00	124	73,612	
unicell chrysophyte (ell)	33.00	1,231	40,619	
Bacillariophyceae				
Asterionella formosa	152.00	371	56,462	
Cyclotella sp.	12.00	1,608	19,292	
Cyclotella sp.	5.00	3,140	15,700	
Fragilaria crotonensis	145.00	683	99,035	
Taxon Subtotal	**1025**		**394,733**	
Cryptophyta				
Cryptomonas sp.	3.00	1,641	4,924	
Rhodomonas sp. (tiny)	5.00	94	471	
Taxon Subtotal	**8**		**5,395**	
Eugienophyta				
Pyrrhophyta				
Ceratium hirundinella	4.00	60,000	240,000	
Taxon Subtotal	**4**		**240,000**	
Chloromonadophyta				

Total Number/ml	**4340**	**Total Volume (u3/ml)**	**889,691**
% Cyanophyta	75.37	% Cyanophyta	25.75
% Chlorophyta	0.74	% Chlorophyta	2.30
% Chrysophyta	23.62	% Chrysophyta	44.37
% Cryptophyta	0.18	% Cryptophyta	0.61
% Pyrrhophyta	0.09	% Pyrrhophyta	26.98

Note: *=colony/ml

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: Lyngbya filaments/Synura/Pandorina in sample

DATE: 27 Sep 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	1,006	0	2.5	2,514	
Skistodiaptomus oregonensis	1.30	1.40	229	6.6	12	2,249	
Order Cyclopoida							
Copepodid		0.6-0.7	3,017	0	2	6,034	
Orthocyclops modestus	0.90	1.05	411	3	5	1,783	
Diacyclops bicuspidatus thomasi	1.00	1.16	457	3	5.5	2,514	
Mesocyclops edax	1.00	1.60	777	4	40	22,857	
Nauplii (cal+cyc)		<.3	16,457	0	0.25	4,114	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,143	0	5	5,714	
Daphnia pulex/pulicaria group		1.68	229	0	22	5,029	
Daphnia galeata mendotae		1.40	411	8	17	6,994	pt helmets
Bosmina longirostris (adult)		0.39	183	0	1.4	256	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		8.0-10.0	9	0	350	3,000	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	1,829	0	0.02	37	
Keratella cochlearis		0.16	10,057	0	0.01	101	
Keratella earlinae		0.21	457	0	0.02	9	
Keratella hiemalis		0.14	1,143	0	0.04	46	
Type 2 (mostly illoricate virgates/incudates)							
Asplanchna sp.		0.56	914	0	3.6	3,291	
Asplanchna sp.		0.35	1,600	0	0.56	896	
Chromogaster sp.		0.12	1,600	0	0.023	37	
Gastropus stylifer		0.12	686	0	0.03	21	
Polyarthra sp. B		0.15	13,029	0	0.07	912	
Polyarthra major		0.21	3,657	0	0.15	549	
Synchaeta sp.		0.21	457	0	0.075	34	
Trichocerca sp. B (strait)		0.18	914	0	0.022	20	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.15	229	0	0.015	3	
Conochilus sp. (large)		0.21	1,371	0	0.02	27	
Filinia sp.		0.16	1,143	0	0.04	46	
Pompholyx sulcata		0.09	686	0	0.01	7	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	64,100	64.10	69,095	69.09
% Calanoid Copepods	1.93		6.89	
% Cyclopoid Copepods	7.27		48.03	
% Nauplii	25.67		5.95	
% Cladocerans	3.07		26.04	
% Rotifers	62.05		8.73	
% Dipterans	0.01		4.34	
Number of species	22			

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE: Lyngbya filaments/Synura/Pandorina in sample

DATE: 27 Sep 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	504	0	2.5	1,259	
Skistodiaptomus oregonensis	1.26	1.54	655	6.6	12	7,042	
Order Cyclopoida							
Copepodid		0.6-0.7	3,526	0	2	7,052	
Orthocyclops modestus	0.90	1.12	353	3	5	1,461	
Diacyclops bicuspidatus thomasi	1.00	1.16	806	3	5.5	3,677	
Mesocyclops edax	1.20	1.60	1,058	4.4	40	27,966	
Nauplii (cal+cyc)		<.3	18,133	0	0.25	4,533	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,058	0	5	5,289	
Daphnia pulex/pulicaria group		1.68	453	0	22	9,973	
Daphnia galeata mendotae		1.47	101	8	17	1,713	pt helmets
Bosmina longirostris (adult)		0.39	252	0	1.4	353	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		10.00	21	0	350	7,255	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia bostoniensis			756	0	0.0096	7	
Kellicottia longispina		0.21	7,807	0	0.02	156	
Keratella cochlearis		0.16	16,370	0	0.01	164	
Keratella earlinae		0.21	1,007	0	0.02	20	
Keratella hiemalis		0.14	4,281	0	0.04	171	
Type 2 (mostly filoricate virgates/incudates)							
Ascomorpha sp.		0.16	2,267	0	0.05	113	
Asplanchna sp.		0.56	252	0	3.6	907	
Ascomorpha sp. (Chromogaster)		0.11	252	0	0.023	6	
Gastropus stylifer		0.11	756	0	0.03	23	
Polyarthra sp.		0.10	1,763	0	0.03	53	
Polyarthra sp.		0.14	8,311	0	0.06	499	
Polyarthra major		0.21	1,259	0	0.15	189	
Synchaeta sp. (small)		0.14	504	0	0.02	10	
Trichocerca sp. B(strait)		0.18	1,511	0	0.022	33	
Trichocerca sp. B		0.14	504	0	0.016	8	
Type 3 (mostly malleoramates)							
Conochilus sp. (small)		0.14	1,007	0	0.015	15	
Conochilus sp. (large)			5,793	0	0.02	116	
Filinia sp.		0.18	9,570	0	0.045	431	
Pompholyx sulcata		0.09	504	0	0.01	5	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	91,393	91.39	80,497	80.50
% Calanoid Copepods	1.27		10.31	
% Cyclopoid Copepods	6.28		49.88	
% Nauplii	19.84		5.63	
% Cladocerans	2.04		21.53	
% Rotifers	70.55		3.63	
% Dipterans	0.02		9.01	
Number of species	24			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON NOTE:
DATE: 09/27/94
STATION: Sta A (0.5,1.5,2.5,3.5,4.5,5.5m c SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	20.00	151	3,014	bean-shaped
Anabaena sp. A	288.00	523	150,720	strait filament
Aphanizomenon flos-aquae	5,304.00	118	625,872	
Aphanocapsa sp.	40.00	4	167	
Aphanothece sp.	1,000.00	6	6,280	
Chroococcus sp.	84.00	335	28,134	
Coelosphaerium Naegelianum	200.00	14	2,826	1 colonies
Taxon Subtotal	**6936**		**817,014**	
Chlorophyta				
Ankistrodesmus falcatus	3.00	586	1,758	
Characium sp.	1.00	433	433	
Elakatothrix gelatinosa	6.00	126	754	
Oocystis sp.	12.00	733	8,792	
Pandorina morum	16.00	335	5,359	
Sphaerocystis shroeteri	8.00	113	904	
nannoplankton unicell(sph)	1.00	904	904	
Taxon Subtotal	**47**		**18,905**	
Chrysophyta				
Ochromonas sp.	1.00	8,373	8,373	
Dinobryon sociale	78.00	742	57,862	
Dinobryon sp.	71.00	1,425	101,159	
Gloeobotrys limneticus	20.00	124	2,487	
Mallomonas sp. A	4.00	2,872	11,488	
unicell chrysophyte (ell)	10.00	1,641	16,412	
Synura uvella	16.00	2,298	36,766	colony broken up
Bacillariophyceae				
Cyclotella sp.	4.00	2,543	10,174	
Fragilaria crotonensis	90.00	683	61,470	
Taxon Subtotal	**294**		**306,191**	
Cryptophyta				
Cryptomonas erosa	16.00	1,524	24,383	
Cryptomonas sp.	3.00	3,956	11,869	
Cryptomonas sp.	2.00	8,440	16,881	
cryptomonad (Chroomonas?)	23.00	791	18,199	
Rhodomonas sp.	220.00	340	74,837	
Taxon Subtotal	**264**		**146,169**	
Euglenophyta				
Trachelomonas sp. 1(sph)	3.00	2,571	7,713	
Taxon Subtotal	**3**		**7,713**	
Pyrrhophyta				
Peridinium sp. (tiny)	1.00	821	821	
Ceratium hirundinella	1.00	60,000	60,000	
Ceratium hirundinella	1.00	30,000	30,000	cyst
Taxon Subtotal	**3**		**90,821**	
Chloromonadophyta				

Total Number/ml	**7547**	**Total Volume (u3/ml)**	**1,386,813**
% Cyanophyta	91.90	% Cyanophyta	58.91
% Chlorophyta	0.62	% Chlorophyta	1.36
% Chrysophyta	3.90	% Chrysophyta	22.08
% Cryptophyta	3.50	% Cryptophyta	10.54
% Euglenophyta	0.04	% Euglenophyta	0.56
% Pyrrhophyta	0.04	% Pyrrhophyta	6.55

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 09/27/94
STATION: Sta B (0.5,1.5,2.5,3.5,4.5,5.5m c SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	30.00	231	6,924	bean-shaped
Anabaena sp. A (strght chain)	290.00	523	151,767	
Anabaena flos-aquae?	55.00	150	8,275	short chains
Aphanizomenon flos-aquae	3,224.00	118	380,432	
Aphanothece sp.	1,200.00	6	7,536	
Chroococcus sp.	124.00	182	22,614	
Coelosphaerium Naegelianum	400.00	14	5,652	2 colonies
Lyngbya Birgei	40.00	1,036	41,448	short filament
Taxon Subtotal	**5363**		**624,647**	
Chlorophyta				
Ankistrodesmus falcatus	1.00	586	586	
Elakatothrix gelatinosa	2.00	117	234	
Nephrocytium sp.	4.00	837	3,349	
Oocystis Borgei	6.00	733	4,396	
* *Scenedesmus arcuatus*	1.00	2,462	2,462	
Shroederia sp.	2.00	176	352	
Sphaerocystis shroeteri	8.00	150	1,204	
Taxon Subtotal	**24**		**12,583**	
Chrysophyta				
Ochromonas sp.	2.00	6,104	12,208	
Dinobryon sociale	38.00	1,047	39,773	
Dinobryon sp.	36.00	1,178	42,390	
Gloeobotrys limneticus	20.00	124	2,487	
Mallomonas sp. A	5.00	2,653	13,267	
unicell chrysophyte (all)	7.00	1,231	8,616	
Synura uvella	20.00	2,298	45,958	
Bacillariophyceae				
Cyclotella sp.	6.00	3,140	18,840	
Fragilaria crotonensis	70.00	683	47,810	
Melosira sp. A	12.00	1,346	16,155	
Taxon Subtotal	**216**		**247,504**	
Cryptophyta				
Cryptomonas sp.	15.00	1,641	24,618	
Cryptomonas sp. (large)	2.00	5,757	11,513	
Cryptomonas sp.	1.00	3,014	3,014	
cryptomonad (Chroomonas?)	40.00	678	27,130	
Rhodomonas sp.	110.00	340	37,418	
Taxon Subtotal	**168**		**103,693**	
Eugienophyta				
Pyrrhophyta				
Ceratium hirundinella	1.00	30,000	30,000	cyst
Ceratium hirundinella	5.00	60,000	300,000	
Taxon Subtotal	**6**		**330,000**	
Chloromonadophyta				

Total Number/ml	**5777**	**Total Volume (u3/ml)**	**1,318,428**
% Cyanophyta	92.83	% Cyanophyta	47.38
% Chlorophyta	0.42	% Chlorophyta	0.95
% Chrysophyta	3.74	% Chrysophyta	18.77
% Cryptophyta	2.91	% Cryptophyta	7.86
% Pyrrhophyta	0.10	% Pyrrhophyta	25.03

Note: *=colony/ml

LAKE SAWYER PHASE I

LAKE ZOOPLANKTON DATA

WATER Environmental Services, Inc.

STATION: Lake Sawyer Sta#A NOTE: Lyngbya filaments/Synura/Pandorina in sample

DATE: 13 Oct 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	538	0	2.5	1,344	
Skistodiaptomus oregonensis	1.30	1.40	672	6.6	12	7,822	
Order Cyclopoida							
Copepodid		0.6-0.7	2,464	0	2	4,928	
Orthocyclops modestus	0.90	1.05	314	3	5	1,478	
Diacyclops bicuspidatus thomasi	1.00	1.16	896	3	5.5	4,704	
Mesocyclops edax	1.00	1.60	403	4	40	14,515	
Nauplii (cal+cyc)		<.3	12,544	0	0.25	3,136	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	538	0	5	2,688	
Daphnia pulex/pulicaria group		1.68	314	0	22	6,899	
Daphnia galeata mendotae		1.40	90	8	17	1,523	pt helmets
Ceriodaphnia sp.			45	0	4	179	
Bosmina longirostris (adult)		0.39	224	0	1.4	314	
Class Insecta							
Order Diptera							
Chaoborus spp. (robust)		8.0-10.0	1	0	350	466	
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia bostoniensis			896	0	0.0096	9	
Kellicottia longispina		0.21	6,496	0	0.02	130	
Keratella cochlearis		0.16	4,480	0	0.01	45	
Keratella hiemalis		0.14	224	0	0.04	9	
Type 2 (mostly illoricate virgates/incudates)							
Gastropus stylifer		0.12	448	0	0.03	13	
Polyarthra sp. A		0.10	1,792	0	0.03	54	
Polyarthra sp.		0.15	3,808	0	0.07	267	
Polyarthra major		0.25	4,032	0	0.3	1,210	
Synchaeta sp.		0.42	224	0	0.6	134	
Trichocerca sp. B (strait)		0.18	224	0	0.022	5	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.15	448	0	0.015	7	
Conochilus sp. (large)		0.21	3,808	0	0.02	76	
Filinia sp.		0.16	1,792	0	0.04	72	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	47,713	47.71	52,027	52.03
% Calanoid Copepods	2.54		17.62	
% Cyclopoid Copepods	8.54		49.25	
% Nauplii	26.29		6.03	
% Cladocerans	2.54		22.30	
% Rotifers	60.09		3.90	
% Dipterans	0.00		0.90	

Number of species 20

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE: Lyngbya filaments/Synura/Pandorina in sample

DATE: 13 Oct 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	comments
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	933	0	2.5	2,333	
Skistodiaptomus oregonensis	1.26	1.54	985	6.6	12	9,860	
Order Cyclopoida							
Copepodid		0.6-0.7	3,421	0	2	6,843	
Orthocyclops modestus	0.90	1.12	363	3	5	1,400	
Diacyclops bicuspidatus thomasi	1.00	1.16	1,192	3	5.5	6,299	
Mesocyclops edax	1.20	1.60	570	4.4	40	20,964	
Nauplii (cal+cyc)		<.3	19,440	0	0.25	4,860	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	933	0	5	4,666	
Daphnia pulex/pulicaria group		1.75	207	0	25	5,184	
Daphnia galeata mendotae		1.47	156	8	17	2,644	pt helmets
Bosmina longirostris (adult)		0.39	1,296	0	1.4	1,814	
Bosmina longirostris (juv)		0.28	259	0	0.7	181	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Anuraeopsis fissa		0.08	518		0.002	1	
Kellicottia bostoniensis			259	0	0.0096	2	
Kellicottia longispina		0.21	9,850	0	0.02	197	
Keratella cochlearis		0.16	6,739	0	0.01	67	
Keratella earlinae		0.21	1,555	0	0.02	31	
Keratella hiemalis		0.14	518	0	0.04	21	
Type 2 (mostly filoricate virgates/incudates)							
Asplanchna sp.		0.49	518	0	2.2	1,140	
Gastropus stylifer		0.11	518	0	0.03	16	
Polyarthra sp. A		0.10	2,333	0	0.03	70	
Polyarthra sp.		0.14	4,147	0	0.06	249	
Polyarthra major		0.25	4,406	0	0.3	1,322	
Synchaeta sp. (small)		0.14	259	0	0.02	5	
Trichocerca cylindrica		0.39	518	0	0.14	73	
Trichocerca sp. B(strait)		0.18	1,037	0	0.022	23	
Type 3 (mostly malleoramates)							
Conochilus sp. (small)		0.14	518	0	0.015	8	
Conochilus sp. (large)			5,962	0	0.02	119	
Filinia sp.		0.18	8,294	0	0.045	373	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	77,708	**77.71**	**70,765**	**70.76**
% Calanoid Copepods	2.47		17.23	
% Cyclopoid Copepods	7.14		50.17	
% Nauplii	25.02		6.87	
% Cladocerans	3.67		20.48	
% Rotifers	61.71		5.25	
% Dipterans	0.00		0.00	
Number of species	22			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON NOTE:
DATE: 10/13/94
STATION: Sta A (0.5,1.5,2.5,3.5,4.5,5.5m c SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	70.00	182	12,766	bean-shaped
Anabaena planktonica	215.00	523	112,517	trichome strait
Aphanizomenon flos-aquae	3,458.00	118	408,044	
Aphanocapsa sp.	260.00	4	1,089	
Chroococcus sp.	24.00	335	8,038	
Coelosphaerium Naegelianum	600.00	14	8,478	3 colonies
Taxon Subtotal	**4627**		**550,932**	
Chlorophyta				
Eudorina elegans	8.00	904	7,235	
Pandorina morum	16.00	335	5,359	
Pandorina morum	1.00	14,130	14,130	tiny colony
Quadrigula sp.	4.00	340	1,361	
Shroederia sp.	2.00	114	228	
nannoplankton unicell(sph)	1.00	904	904	
Taxon Subtotal	**32**		**29,216**	
Chrysophyta				
Ochromonas sp.	5.00	7,955	39,773	
Dinobryon sp.	123.00	1,047	128,740	
Gloeobotrys limneticus	10.00	124	1,243	
unicell chrysophyte (ell)	6.00	1,641	9,847	
Synura uvella	10.00	2,298	22,979	colony broken up
Bacillariophyceae				
Asterionella formosa	12.00	371	4,458	
Fragilaria crotonensis	50.00	683	34,150	
Taxon Subtotal	**216**		**241,190**	
Cryptophyta				
Cryptomonas erosa	35.00	1,641	57,441	
Cryptomonas ovata	2.00	3,768	7,536	
Cryptomonas sp.	1.00	6,280	6,280	
cryptomonad (ell)	5.00	565	2,826	
cryptomonad (Chroomonas?)	41.00	879	36,047	
Rhodomonas sp.	60.00	340	20,410	
Taxon Subtotal	**144**		**130,540**	
Euglenophyta				
Trachelomonas sp. (sph)	1.00	9,198	9,198	
Trachelomonas sp. 1(sph)	15.00	2,571	38,567	
Taxon Subtotal	**16**		**47,765**	
Pyrrhophyta				
Ceratium hirundinella	1.00	60,000	60,000	
Taxon Subtotal	**1**		**60,000**	
Chloromonadophyta				

Total Number/ml	**5036**	**Total Volume (u3/ml)**	**1,059,644**
% Cyanophyta	91.88	% Cyanophyta	51.99
% Chlorophyta	0.64	% Chlorophyta	2.76
% Chrysophyta	4.29	% Chrysophyta	22.76
% Cryptophyta	2.86	% Cryptophyta	12.32
% Euglenophyta	0.32	% Euglenophyta	4.51
% Pyrrhophyta	0.02	% Pyrrhophyta	5.66

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 10/13/94
STATION: Sta B (0.5,1.5,2.5,3.5,4.5,5.5m c SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	95.00	182	17,325	bean-shaped
Anabaena planktonica	70.00	523	36,633	
Aphanizomenon flos-aquae	4,420.00	118	521,560	
Aphanocapsa sp.	780.00	4	3,266	
Chroococcus sp.	24.00	335	8,038	
Coelosphaerium Naegelianum	400.00	14	5,652	2 colonies
Taxon Subtotal	**5789**		**592,475**	
Chlorophyta				
Eudorina elegans	4.00	904	3,617	
Gloeocystis sp.	8.00	628	5,024	
Pandorina morum	32.00	335	10,718	
* *Pandorina morum*	1.00	14,130	14,130	tiny colony
Shroederia sp.	2.00	176	352	
Sphaerocystis shroeteri	8.00	150	1,204	
Staurastrum pingue	1.00	3,939	3,939	
Taxon Subtotal	**56**		**38,983**	
Chrysophyta				
Ochromonas sp.	2.00	7,536	15,072	
Dinobryon sp.	128.00	1,047	133,973	
unicell chrysophyte (ell)	9.00	1,231	11,078	
Synura uvella	10.00	2,298	22,979	
Bacillariophyceae				
Asterionella formosa	16.00	371	5,943	
Fragilaria crotonensis	120.00	683	81,960	
Melosira sp. A	10.00	1,507	15,072	
Synedra sp.	2.00	419	837	
Taxon Subtotal	**297**		**286,915**	
Cryptophyta				
Cryptomonas erosa	20.00	1,758	35,168	
Cryptomonas ovata	3.00	3,014	9,043	
cryptomonad (Chroomonas?)	47.00	816	38,371	
cryptomonad (ell)	1.00	471	471	
Rhodomonas sp.	100.00	340	34,017	
Taxon Subtotal	**171**		**117,070**	
Euglenophyta				
Trachelomonas sp. 1(sph)	7.00	2,571	17,998	
Trachelomonas sp. 2 (sph)	2.00	7,235	14,469	
Taxon Subtotal	**9**		**32,467**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**6322**	**Total Volume (u3/ml)**	**1,067,909**
% Cyanophyta	91.57	% Cyanophyta	55.48
% Chlorophyta	0.89	% Chlorophyta	3.65
% Chrysophyta	4.70	% Chrysophyta	26.87
% Cryptophyta	2.70	% Cryptophyta	10.96
% Euglenophyta	0.14	% Euglenophyta	3.04

Note: *=colony/ml

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: a few Lyngbya filaments/lots of diatoms in sample

DATE: 17 Nov 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	1,568	0	2.5	3,920	
Skistodiaptomus oregonensis	1.30	1.40	1,842	6.6	12	16,393	
Order Cyclopoida							
Copepodid		0.6-0.7	2,940	0	2	5,880	
Orthocyclops modestus	0.90	1.05	39	3	5	118	
Diacyclops bicuspidatus thomasi	1.00	1.16	588	3	5.5	2,744	
Mesocyclops edax	1.00	1.30	39	4	30	1,176	
Nauplii (cal+cyc)		<.3	8,232	0	0.25	2,058	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,411	0	5	7,056	
Daphnia pulex/pulicaria group		1.75	274	0	27	7,409	
Daphnia galeata mendotae		1.70	353	8	25	8,820	pt helmets
Bosmina longirostris (juv)		0.28	392	0	0.7	274	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia bostoniensis			1,764	0	0.0096	17	
Kellicottia longispina		0.21	9,212	0	0.02	184	
Keratella cochlearis		0.16	43,120	0	0.01	431	
Keratella earlinae		0.21	1,176	0	0.02	24	
Keratella hiemalis		0.14	196	0	0.04	8	
Type 2 (mostly lilioricate virgates/incudates)							
Ascomorpha sp.		0.14	588	0	0.05	29	
Gastropus stylifer		0.12	196	0	0.03	6	
Polyarthra sp. A		0.10	588	0	0.03	18	
Polyarthra major		0.16	3,528	0	0.07	247	
Polyarthra major		0.21	2,548	0	0.16	408	
Trichocerca cylindrica		0.28	196	0	0.07	14	
Trichocerca porcellus		0.17	2,940	0	0.03	88	
Trichocerca sp. B (strait)		0.14	980	0	0.018	18	
Type 3 (mostly malleoramates)							
Conochilus sp. (large)		0.21	392	0	0.02	8	
Filinia sp.		0.16	784	0	0.04	31	
Pompholyx sulcata		0.09	196	0	0.01	2	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	86,083	86.08	57,380	57.38
% Calanoid Copepods	3.96		35.40	
% Cyclopoid Copepods	4.19		17.28	
% Nauplii	9.56		3.59	
% Cladocerans	2.82		41.06	
% Rotifers	79.46		2.67	
% Dipterans	0.00		0.00	

Number of species 22

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE: a few Lyngbya filaments/lots of diatoms in sample

DATE: 17 Nov 94

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	1,422	0	2.5	3,554	
Skistodiaptomus oregonensis	1.26	1.54	1,374	6.6	12	10,605	
Order Cyclopoida							
Copepodid		0.6-0.7	4,738	0	2	9,477	
Orthocyclops modestus	0.90	1.12	569	3	5	2,464	
Diacyclops bicuspidatus thomasi	1.00	1.16	474	3	5.5	2,488	
Mesocyclops edax	1.20	1.60	95	4.4	40	3,791	
Mesocyclops edax	1.20	1.30	47	4.4	30	1,422	
Nauplii (cal+cyc)		<.3	17,058	0	0.25	4,265	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,658	0	5	8,292	
Daphnia pulex/pulicaria group		1.75	284	0	27	7,676	
Daphnia galeata mendotae		1.70	47	8	25	1,185	pt helmets
Ceriodaphnia sp.		0.70	47	0	4	190	
Bosmina longirostris (adult)		0.35	474	0	1.2	569	males/females
Bosmina longirostris (juv)		0.28	237	0	0.7	166	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Anuraeopsis fissa		0.08	474		0.002	1	
Kellicottia bostoniensis			9,951	0	0.0096	96	
Kellicottia longispina		0.21	9,240	0	0.02	185	
Keratella cochlearis		0.16	120,594	0	0.01	1,206	
Keratella earlinae		0.21	711	0	0.02	14	
Type 2 (mostly illoricate virgates/incudates)							
Ascomorpha sp.		0.16	474	0	0.05	24	
Gastropus stylifer		0.11	711	0	0.03	21	
Polyarthra sp. A		0.10	1,422	0	0.03	43	
Polyarthra major		0.14	3,080	0	0.06	185	
Polyarthra major		0.21	948	0	0.16	152	
Synchaeta sp.		0.21	237	0	0.075	18	
Trichocerca porcellus		0.14	4,502	0	0.03	135	
Trichocerca sp. B(strait)		0.12	948	0	0.015	14	
Type 3 (mostly malleoramates)							
Filinia sp.		0.18	1,658	0	0.045	75	
Pompholyx sulcata		0.09	3,554	0	0.01	36	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	187,027	187.03	58,344	58.34
% Calanoid Copepods	1.49		24.27	
% Cyclopoid Copepods	3.17		33.66	
% Nauplii	9.12		7.31	
% Cladocerans	1.47		30.98	
% Rotifers	84.75		3.78	
% Dipterans	0.00		0.00	

Number of species 22

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 11/17/94
STATION: Sta A (0.5,1.5,2.5,3.5m comp)

NOTE:
SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	40.00	124	4,974	short coil
Aphanizomenon flos-aquae	2,535.00	118	299,130	
Chroococcus sp.	4.00	368	1,474	
Taxon Subtotal	**2579**		**305,577**	
Chlorophyta				
Asterococcus limneticus	10.00	1,436	14,360	
Eudorina elegans	16.00	2,144	34,297	
Pandorina morum	96.00	151	14,469	
Shroederia sp.	2.00	171	342	
Taxon Subtotal	**124**		**63,469**	
Chrysophyta				
Ochromonas sp.	5.00	8,792	43,960	
Synura uvella	8.00	2,298	18,383	colony broken
Bacillariophyceae				
Asterionella formosa	328.00	371	121,840	
Cyclotella sp.	7.00	9,891	69,237	
Fragilaria crotonensis	90.00	683	61,470	
Melosira sp. A	1,630.00	1,094	1,783,590	
Melosira sp. B	108.00	2,512	271,296	
Stephanodiscus sp.	14.00	49,235	689,293	
Tabellaria fenestrata	4.00	5,376	21,504	
Taxon Subtotal	**2194**		**3,080,573**	
Cryptophyta				
Cryptomonas erosa	15.00	1,993	29,893	
cryptomonad (Chroomonas?)	13.00	879	11,430	
Rhodomonas sp.	5.00	340	1,701	
Taxon Subtotal	**33**		**43,023**	
Euglenophyta				
Trachelomonas sp. 1(sph)	16.00	2,571	41,138	
Taxon Subtotal	**16**		**41,138**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**4946**	**Total Volume (u3/ml)**	**3,533,780**
% Cyanophyta	52.14	% Cyanophyta	8.65
% Chlorophyta	2.51	% Chlorophyta	1.80
% Chrysophyta	44.36	% Chrysophyta	87.17
% Cryptophyta	0.67	% Cryptophyta	1.22
% Euglenophyta	0.32	% Euglenophyta	1.16

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 11/17/94
STATION: Sta B (0.5,1.5,2.5,3.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	70.00	,124	8,704	small coils
Aphanizomenon flos-aquae	3,406.00	118	401,908	
Taxon Subtotal	**3476**		**410,612**	
Chlorophyta				
Ankistrodesmus falcatus	1.00	586	586	
Shroederia sp.	2.00	176	352	
Taxon Subtotal	**3**		**938**	
Chrysophyta				
Ochromonas sp.	3.00	8,373	25,120	
Synura uvella	16.00	2,298	36,766	
Bacillariophyceae				
Asterionella formosa	248.00	371	92,123	
Cyclotella sp.	4.00	9,891	39,564	
Fragilaria crotonensis	40.00	683	27,320	
Melosira sp. A	1,912.00	1,094	2,092,162	
Melosira sp. B	115.00	2,355	270,825	
Stephanodiscus sp.	13.00	44,312	576,052	
Synedra ulna	1.00	42,000	42,000	
Taxon Subtotal	**2352**		**3,201,932**	
Cryptophyta				
Cryptomonas erosa	17.00	1,993	33,879	
cryptomonad (Chroomonas?)	9.00	816	7,348	
Rhodomonas sp.	6.00	340	2,041	
Taxon Subtotal	**32**		**43,267**	
Euglenophyta				
Trachelomonas sp. 1(sph)	5.00	2,571	12,856	
Taxon Subtotal	**5**		**12,856**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**5868**	**Total Volume (u3/ml)**	**3,669,605**
% Cyanophyta	59.24	% Cyanophyta	11.19
% Chlorophyta	0.05	% Chlorophyta	0.03
% Chrysophyta	40.08	% Chrysophyta	87.26
% Cryptophyta	0.55	% Cryptophyta	1.18
% Euglenophyta	0.09	% Euglenophyta	0.35

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A NOTE:
DATE: 21 Dec 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	235	0	2.5	588	
Skistodiaptomus oregonensis	1.30	1.40	1,786	6.6	12	17,625	
Order Cyclopoida							
Copepodid		0.6-0.7	2,350	0	2	4,700	
Orthocyclops modestus	0.90	1.05	376	3	5	1,504	
Diacyclops bicuspidatus thomasi	1.00	1.16	470	3	5.5	2,233	
Nauplii (cal+cyc)		<.3	11,280	0	0.25	2,820	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,034	0	5	5,170	
Daphnia pulex/pulicaria group		1.89	846	0	33	27,918	
Daphnia galeata mendotae		1.75	141	8	27	3,807	pt helmets
Bosmina longirostris (adult)		0.42	470	0	1.6	752	
Bosmina longirostris (juv)		0.28	470	0	0.7	329	
Chydorus sphaericus		0.28	235	0	0.65	153	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia bostoniensis			470	0	0.0096	5	
Kellicottia longispina		0.21	2,820	0	0.02	56	
Keratella cochlearis		0.16	27,730	0	0.01	277	
Keratella hiemalis		0.14	235	0	0.04	9	
Type 2 (mostly illoricate virgates/incudates)							
Ascomorpha sp.		0.14	235	0	0.05	12	
Gastropus stylifer		0.12	470	0	0.03	14	
Polyarthra major		0.15	470	0	0.07	33	
Trichocerca porcellus		0.17	1,175	0	0.03	35	
Trichocerca sp. B (strait)		0.14	235	0	0.018	4	
Type 3 (mostly malleoramates)							
Filinia sp.		0.16	470	0	0.04	19	
Pompholyx sulcata		0.09	705	0	0.01	7	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	54,708	54.71	68,069	68.07
% Calanoid Copepods	3.69		26.76	
% Cyclopoid Copepods	5.84		12.39	
% Nauplii	20.62		4.14	
% Cladocerans	5.84		56.01	
% Rotifers	64.00		0.69	
% Dipterans	0.00		0.00	
Number of species	18			

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B NOTE:
DATE: 21 Dec 94

WATER Environmental Services, Inc.

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	244	0	2.5	609	
Skistodiaptomus oregonensis	1.26	1.54	1,950	6.6	12	15,170	
Order Cyclopoida							
Copepodid		0.6-0.7	2,924	0	2	5,849	
Diacyclops bicuspidatus thomasi	1.00	1.16	609	3	5.5	3,046	
Nauplii (cal+cyc)		<.3	3,655	0	0.25	914	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	10,357	0	5	51,785	
Daphnia pulex/pulicaria group		1.89	731	0	33	24,126	
Daphnia pulex/pulicaria group		2.10	122	0	46	5,605	large females
Daphnia galeata mendotae		1.75	1,950	8	27	52,638	pt helmets
Bosmina longirostris (adult)		0.42	914	0	1.6	1,462	
Bosmina longirostris (juv)		0.28	305	0	0.7	213	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	5,788	0	0.02	116	
Keratella cochlearis		0.16	71,889	0	0.01	719	
Keratella earlinae		0.21	1,218	0	0.02	24	
Keratella hiemalis		0.14	305	0	0.04	12	
Type 2 (mostly illoricate virgates/incudates)							
Ascomorpha sp.		0.16	305	0	0.05	15	
Gastropus stylifer		0.11	305	0	0.03	9	
Polyarthra sp. A		0.12	3,351	0	0.05	168	
Polyarthra major		0.21	305	0	0.16	49	
Synchaeta sp.		0.32	2,437	0	0.25	609	
Synchaeta sp.		0.21	1,218	0	0.075	91	
Synchaeta sp.		0.35	609	0	0.5	305	
Trichocerca porcellus		0.14	4,265	0	0.03	128	
Type 3 (mostly malleoramates)							
Pompholyx sulcata		0.09	609	0	0.01	6	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	116,353	116.36	163,667	163.67
% Calanoid Copepods	1.88		9.64	
% Cyclopoid Copepods	3.04		5.43	
% Nauplii	3.14		0.56	
% Cladocerans	12.36		82.99	
% Rotifers	79.58		1.38	
% Dipterans	0.00		0.00	
Number of species	16			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 12/21/94
STATION: Sta B (0.5,1.5,2.5,3.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	130.00	124	16,165	small coils
Aphanizomenon flos-aquae	1,170.00	118	138,060	
Taxon Subtotal	**1300**		**154,225**	
Chlorophyta				
Ankistrodesmus falcatus	2.00	586	1,172	
Oocystis Borgei	2.00	733	1,465	
colonial green(sph)	8.00	268	2,144	
nannoplankton unicell (ell)	4.00	251	1,005	
Taxon Subtotal	**16**		**5,786**	
Chrysophyta				
Ochromonas sp.	7.00	8,373	58,613	
Synura uvella	200.00	1,846	369,264	broken colony
Bacillariophyceae				
Asterionella formosa	152.00	371	56,462	
Cyclotella sp.	12.00	9,891	118,692	
Melosira sp. A	40.00	1,094	43,769	
Stephanodiscus sp.	11.00	44,312	487,428	
Taxon Subtotal	**422**		**1,134,229**	
Cryptophyta				
Cryptomonas erosa	37.00	1,876	69,398	
Cryptomonas sp. (large)	6.00	7,034	42,202	
cryptomonad (Chroomonas?)	23.00	898	20,655	
Rhodomonas sp.	36.00	366	13,188	
Taxon Subtotal	**102**		**145,443**	
Euglenophyta				
Trachelomonas sp. 1(sph)	17.00	2,571	43,709	
Taxon Subtotal	**17**		**43,709**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1857**	**Total Volume (u3/ml)**	**1,483,392**
% Cyanophyta	70.01	% Cyanophyta	10.40
% Chlorophyta	0.86	% Chlorophyta	0.39
% Chrysophyta	22.72	% Chrysophyta	76.46
% Cryptophyta	5.49	% Cryptophyta	9.80
% Euglenophyta	0.92	% Euglenophyta	2.95

Note: *=colony/ml

WATER Environmental Sevices, Inc.
9515 Windsong Loop NE
Bainbridge Island, WA 98110
(206) 842-9382

INVOICE NO.	121-95
Invoice Date	9-May-95
Project No.	94-09
Contract No.	P02766P
Project	Lake Sawyer Phase I Bioassessment

TO: King County Surface Water Management
ATTN: Bob Storer
Department of Public Works
700 Fifth Avenue, Suite 2200
Seattle, WA 98104

For professional services performed on the above project

Task 1.1 Phytoplankton Assessment (ID,enumeration,biovol)

Sample Date	Sample Name	Sample Total	Cost/sample	Total
11/17/94	Lk Sawyer-Sta A (comp)	1	$50	$50
11/17/94	Lk Sawyer-Sta B (comp)	1	$50	$50
12/21/94	Lk Sawyer-Sta A (comp)	1	$50	$50
12/21/94	Lk Sawyer-Sta B (comp)	1	$50	$50
		4	Task Total	$200

Task 1.2 Zooplankton Assessment (ID,enumeration,biomass)

Sample Date	Sample Name	Sample Total	Cost/sample	Total
11/17/94	Lk Sawyer-Sta A (15M tow)	1	$100	$100
11/17/94	Lk Sawyer-Sta B (13M tow)	1	$100	$100
12/21/94	Lk Sawyer-Sta A (16M tow)	1	$100	$100
12/21/94	Lk Sawyer-Sta B (13M tow)	1	$100	$100
		4	Task Total	$400

Task 1.3 Benthic Invertebrate Assessment (ID,enumeration)

Sample Date	Sample Name	Sample Total	Cost/sample	Total
		0	Task Total	$0

INVOICE TOTAL	$600.00

Previously Billed	$3,600.00
Total Amount Billed To Date	$4,200.00
Contract Amount	$5,700.00
Amount Remaining	$1,500.00
Percent Expended	73.68%

✓ ok to pay
Bob Storer
087627
ST2

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 12/21/94
STATION: Sta A (0.5,1.5,2.5,3.5m comp)

NOTE:
SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	20.00	124	2,487	short coil
Aphanizomenon flos-aquae	377.00	118	44,486	
Taxon Subtotal	**397**		**46,973**	
Chlorophyta				
Ankistrodesmus falcatus	2.00	586	1,172	
Shroederia sp.	1.00	171	171	
nannoplankton unicell(sph)	1.00	1,436	1,436	
nannoplankton unicell(ell)	8.00	366	2,931	
Taxon Subtotal	**12**		**5,710**	
Chrysophyta				
Ochromonas sp.	4.00	10,048	40,192	
Synura uvella	609.00	1,846	1,124,409	colony broken up
Bacillariophyceae				
Asterionella formosa	184.00	371	68,349	
Cyclotella sp.	12.00	9,891	118,692	
Melosira sp. A	84.00	1,094	91,915	
Melosira sp. B	5.00	2,512	12,560	
Stephanodiscus sp.	23.00	39,250	902,750	
Synedra sp.	1.00	785	785	
Taxon Subtotal	**922**		**2,359,652**	
Cryptophyta				
Cryptomonas erosa	18.00	1,876	33,761	
Cryptomonas ovata	2.00	3,956	7,913	
cryptomonad (Chroomonas?)	16.00	879	14,067	
Rhodomonas sp.	54.00	366	19,782	
Taxon Subtotal	**90**		**75,523**	
Euglenophyta				
Trachelomonas sp. 1(sph)	13.00	2,571	33,425	
Taxon Subtotal	**13**		**33,425**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1434**	**Total Volume (u3/ml)**	**2,521,283**
% Cyanophyta	27.68	% Cyanophyta	1.86
% Chlorophyta	0.84	% Chlorophyta	0.23
% Chrysophyta	64.30	% Chrysophyta	93.59
% Cryptophyta	6.28	% Cryptophyta	3.00
% Euglenophyta	0.91	% Euglenophyta	1.33

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A
DATE: 19 Jan 95

WATER Environmental Services, Inc.

NOTE: sample loaded w/phyto-Synura/some Melosira

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	120	0	2.5	300	
Skistodiaptomus oregonensis	1.30	1.40	1,060	6.6	12	10,560	
Order Cyclopoida							
Copepodid		0.6-0.7	780	0	2	1,560	
Orthocyclops modestus	0.90	1.05	120	3	5	400	
Diacyclops bicuspidatus thomasi	1.00	1.16	320	3	5.5	1,510	
Nauplii (cal+cyc)		<.3	18,000	0	0.25	4,500	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	400	0	5	2,000	
Daphnia pulex/pulicaria group		1.89	360	0	33	11,880	
Daphnia galeata mendotae		1.75	80	8	27	2,160	pt helmets
Bosmina longirostris (adult)		0.42	200	0	1.6	320	
Bosmina longirostris (juv)		0.28	400	0	0.7	280	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	4,800	0	0.02	96	
Keratella cochlearis		0.16	16,000	0	0.01	160	
Keratella earlinae		0.21	800	0	0.02	16	
Keratella hiemalis		0.14	1,200	0	0.04	48	
Type 2 (mostly illoricate virgates/incudates)							
Gastropus sp.		0.20	3,400	0	0.11	374	
Gastropus sp.(small)		0.14	1,200	0	0.04	48	
Polyarthra major		0.15	800	0	0.07	56	
Synchaeta sp. B		0.28	400	0	0.2	80	
Synchaeta sp. B		0.21	600	0	0.075	45	
Synchaeta sp. A		0.14	400	0	0.02	8	
Trichocerca porcellus		0.19	800	0	0.04	32	
Trichocerca sp. B (small)		0.10	200	0	0.016	3	
Type 3 (mostly malleoramates)							
Filinia sp.		0.16	800	0	0.04	32	
Pompholyx sulcata		0.09	200	0	0.01	2	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	53,440	53.44	36,470	36.47
% Calanoid Copepods	2.21		29.78	
% Cyclopoid Copepods	2.28		9.51	
% Nauplii	33.68		12.34	
% Cladocerans	2.69		45.63	
% Rotifers	59.13		2.74	
% Dipterans	0.00		0.00	

Number of species 17

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A
DATE: 19 Jan 95

WATER Environmental Services, Inc.

NOTE: sample loaded w/phyto-Synura/some Melosira

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	120	0	2.5	300	
Skistodiaptomus oregonensis	1.30	1.40	1,060	6.6	12	10,560	
Order Cyclopoida							
Copepodid		0.6-0.7	780	0	2	1,560	
Orthocyclops modestus	0.90	1.05	120	3	5	400	
Diacyclops bicuspidatus thomasi	1.00	1.16	320	3	5.5	1,510	
Nauplii (cal+cyc)		<.3	18,000	0	0.25	4,500	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	400	0	5	2,000	
Daphnia pulex/pulicaria group		1.89	360	0	33	11,880	
Daphnia galeata mendotae		1.75	80	8	27	2,160	pt helmets
Bosmina longirostris (adult)		0.42	200	0	1.6	320	
Bosmina longirostris (juv)		0.28	400	0	0.7	280	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	4,800	0	0.02	96	
Keratella cochlearis		0.16	16,000	0	0.01	160	
Keratella earlinae		0.21	800	0	0.02	16	
Keratella hiemalis		0.14	1,200	0	0.04	48	
Type 2 (mostly illoricate virgates/incudates)							
Gastropus sp.		0.20	3,400	0	0.11	374	
Gastropus sp.(small)		0.14	1,200	0	0.04	48	
Polyarthra major		0.15	800	0	0.07	56	
Synchaeta sp. B		0.28	400	0	0.2	80	
Synchaeta sp. B		0.21	600	0	0.075	45	
Synchaeta sp. A		0.14	400	0	0.02	8	
Trichocerca porcellus		0.19	800	0	0.04	32	
Trichocerca sp. B (small)		0.10	200	0	0.016	3	
Type 3 (mostly malleoramates)							
Filinia sp.		0.16	800	0	0.04	32	
Pompholyx sulcata		0.09	200	0	0.01	2	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	53,440	53.44	36,470	36.47
% Calanoid Copepods	2.21		29.78	
% Cyclopoid Copepods	2.28		9.51	
% Nauplii	33.68		12.34	
% Cladocerans	2.69		45.63	
% Rotifers	59.13		2.74	
% Dipterans	0.00		0.00	

Number of species 17

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 01/19/95
STATION: Sta B (0.5,1.5,2.5,3.5,4.5m comp)SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	156.00	118	18,408	
Taxon Subtotal	**156**		**18,408**	
Chlorophyta				
Ankistrodesmus falcatus	1.00	586	586	
Pandorina morum	16.00	335	5,359	
Shroederia sp.	2.00	251	502	
nannoplankton unicell (ell)	4.00	167	670	
Taxon Subtotal	**23**		**7,117**	
Chrysophyta				
Ochromonas sp.	8.00	8,373	66,987	
Mallomonas sp. A	2.00	4,308	8,616	
Synura uvella	1,233.00	1,846	2,276,513	broken colony
Bacillariophyceae				
Asterionella formosa	8.00	371	2,972	
Cyclotella sp.	10.00	6,368	63,679	
Melosira sp. A	23.00	1,026	23,594	
Stephanodiscus sp.	4.00	32,556	130,222	
Taxon Subtotal	**1288**		**2,572,583**	
Cryptophyta				
Cryptomonas erosa	35.00	2,562	89,678	
Cryptomonas sp. (large)	1.00	7,034	7,034	
cryptomonad (Chroomonas?)	10.00	980	9,797	
Rhodomonas sp.	50.00	366	18,317	
Taxon Subtotal	**96**		**124,825**	
Euglenophyta				
Trachelomonas sp. 1(sph)	2.00	2,571	5,142	
Taxon Subtotal	**2**		**5,142**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1565**	**Total Volume (u3/ml)**	**2,728,076**
% Cyanophyta	9.97	% Cyanophyta	0.67
% Chlorophyta	1.47	% Chlorophyta	0.26
% Chrysophyta	82.30	% Chrysophyta	94.30
% Cryptophyta	6.13	% Cryptophyta	4.58
% Euglenophyta	0.13	% Euglenophyta	0.19

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 01/19/95
STATION: Sta A (1,2,3,4m comp)

NOTE:

SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	325.00	118	38,350	
Taxon Subtotal	**325**		**38,350**	
Chlorophyta				
Pandorina morum	32.00	151	4,823	
Pediastrum Boryanum	1.00	14,130	14,130	
Quadrigula sp.	2.00	340	680	
* *Scenedesmus quadricauda*	1.00	256	256	
Shroederia sp.	6.00	171	1,026	
nannoplankton unicell(ell)	10.00	262	2,617	
Taxon Subtotal	**52**		**23,532**	
Chrysophyta				
Ochromonas sp.	8.00	8,792	70,336	
Mallomonas sp. A	2.00	4,308	8,616	
Synura uvella	898.00	1,846	1,657,995	colony broken up
Bacillariophyceae				
Cyclotella sp.	2.00	7,385	14,771	
Melosira sp. A	24.00	1,094	26,261	
Stephanodiscus sp.	2.00	36,173	72,346	
Taxon Subtotal	**936**		**1,850,325**	
Cryptophyta				
Cryptomonas erosa	22.00	1,876	41,264	
Cryptomonas sp.	2.00	3,956	7,913	
cryptomonad (Chroomonas?)	12.00	879	10,550	
Rhodomonas sp.	127.00	366	46,524	
Taxon Subtotal	**163**		**106,251**	
Euglenophyta				
Trachelomonas sp. (ell)	1.00	4,605	4,605	
Trachelomonas sp. 1(sph)	1.00	2,571	2,571	
Taxon Subtotal	**2**		**7,176**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1478**	**Total Volume (u3/ml)**	**2,025,635**
% Cyanophyta	21.99	% Cyanophyta	1.89
% Chlorophyta	3.52	% Chlorophyta	1.16
% Chrysophyta	63.33	% Chrysophyta	91.35
% Cryptophyta	11.03	% Cryptophyta	5.25
% Euglenophyta	0.14	% Euglenophyta	0.35

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#B
DATE: 27 Feb 95

WATER Environmental Services, Inc.

NOTE: samplecontained phyto-Melosira

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Skistodiaptomus oregonensis	1.26	1.54	535	6.6	12	6,114	
Order Cyclopoida							
Copepodid		0.6-0.7	1,239	0	2	2,477	
Orthocyclops modestus	0.90	1.12	28	3	5	141	
Diacyclops bicuspidatus thomasi	1.00	1.16	732	3	5.5	3,603	
Nauplii (cal+cyc)		<.3	28,148	0	0.25	7,037	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,970	0	5	9,852	
Daphnia pulex/pulicaria group		2.10	1,379	0	46	63,446	
Daphnia galeata mendotae		1.75	507	8	27	13,680	pt helmets
Bosmina longirostris (adult)		0.42	281	0	1.6	450	
Bosmina longirostris (juv)		0.28	141	0	0.7	99	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	10,133	0	0.02	203	
Keratella cochlearis		0.16	6,474	0	0.01	65	
Keratella hiemalis		0.14	2,533	0	0.04	101	
Monostyla sp.		0.13	141	0	0.01	1	
Type 2 (mostly lloricate virgates/incudates)							
Gastropus sp.(small)		0.14	42,222	0	0.04	1,689	
Gastropus sp.(small)		0.10	34,622	0	0.02	692	
Polyarthra sp. B		0.17	1,407	0	0.09	127	
Synchaeta sp. B		0.28	25,333	0	0.2	5,067	
Synchaeta sp. A		0.15	9,570	0	0.03	287	
Trichocerca porcellus		0.18	141	0	0.04	6	
Type 3 (mostly malleoramates)							
Pompholyx sulcata		0.09	281	0	0.01	3	
Testudinella sp.		0.18	141	0	0.04	6	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	167,960	**167.96**	**115,144**	**115.14**
% Calanoid Copepods	0.32		5.31	
% Cyclopoid Copepods	1.19		5.40	
% Nauplii	16.76		6.11	
% Cladocerans	2.55		76.01	
% Rotifers	79.19		7.16	
% Dipterans	0.00		0.00	
Number of species	17			

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OCT 6 1995
KING COUNTY
WATER MANAGEMENT DIV.

LAKE SAWYER PHASE I
LAKE ZOOPLANKTON DATA
STATION: Lake Sawyer Sta#A
DATE: 27 Feb 95

WATER Environmental Services, Inc.

NOTE: sample contained phyto-Melosira

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	83	0	2.5	206
Skistodiaptomus oregonensis	1.30	1.40	1,320	6.6	12	14,058
Order Cyclopoida						
Copepodid		0.6-0.7	2,475	0	2	4,950
Orthocyclops modestus	0.90	1.05	83	3	5	413
Diacyclops bicuspidatus thomasi	1.00	1.16	193	3	5.5	990
Nauplii (cal+cyc)		<.3	27,500	0	0.25	6,875
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	1,513	0	5	7,563
Daphnia pulex/pulicaria group		1.89	83	0	33	2,723
Daphnia galeata mendotae		1.61	55	8	24	1,320 pt helmets
Class Insecta						
Order Diptera						
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	9,350	0	0.02	187
Keratella cochlearis		0.16	12,375	0	0.01	124
Keratella earlinae		0.21	275	0	0.02	6
Keratella hiemalis		0.14	13,750	0	0.04	550
Notholca sp.		0.14	138	0	0.02	3
Type 2 (mostly illoricate virgates/incudates)						
Asplanchna sp.		0.56	138	0	3.8	495
Gastropus sp.(small)		0.14	68,750	0	0.04	2,750
Gastropus sp.(small)		0.10	66,000	0	0.02	1,320
Polyarthra sp. A		0.10	275	0	0.03	8
Polyarthra major		0.15	1,925	0	0.07	135
Synchaeta sp. B		0.35	19,250	0	0.38	7,315
Synchaeta sp. A		0.19	21,175	0	0.05	1,059
Type 3 (mostly malleoramates)						
Pompholyx sulcata		0.09	138	0	0.01	1
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	246,840	**246.84**	**53,049**	**53.05**
% Calanoid Copepods	0.57		26.89	
% Cyclopoid Copepods	1.11		11.97	
% Nauplii	11.14		12.96	
% Cladocerans	0.67		21.88	
% Rotifers	86.51		26.30	
% Dipterans	0.00		0.00	
Number of species	**17**			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 02/27/95
STATION: Sta B (0.5,1,2,3,4m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	104.00	118	12,272	
Taxon Subtotal	**104**		**12,272**	
Chlorophyta				
* *Pandorina morum*	1.00	11,488	11,488	tiny colony
* *Scenedesmus quadricauda*	1.00	593	593	
Shroederia sp.	2.00	251	502	
Taxon Subtotal	**4**		**12,584**	
Chrysophyta				
Synura uvella	2.00	1,846	3,693	broken colony
Bacillariophyceae				
Cyclotella sp.	13.00	6,368	82,783	
Melosira sp.	18.00	2,355	42,390	
Stephanodiscus sp.	4.00	32,556	130,222	
Taxon Subtotal	**37**		**259,088**	
Cryptophyta				
Cryptomonas erosa	28.00	2,261	63,302	
Cryptomonas sp.	1.00	3,014	3,014	
cryptomonad (Chroomonas?)	17.00	1,061	18,042	
Rhodomonas sp.	320.00	366	117,227	
Taxon Subtotal	**366**		**201,586**	
Euglenophyta				
Trachelomonas sp. 1(sph)	1.00	2,571	2,571	
Taxon Subtotal	**1**		**2,571**	
Pyrrhophyta				
dinoflagellate (tiny)	2.00	1,206	2,412	
Taxon Subtotal	**2**		**2,412**	
Chloromonadophyta				

Total Number/ml	**514**	**Total Volume (u3/ml)**	**490,512**
% Cyanophyta	20.23	% Cyanophyta	2.50
% Chlorophyta	0.78	% Chlorophyta	2.57
% Chrysophyta	7.20	% Chrysophyta	52.82
% Cryptophyta	71.21	% Cryptophyta	41.10
% Euglenophyta	0.19	% Euglenophyta	0.52
% Pyrrhophyta	0.39	% Pyrrhophyta	0.49

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON NOTE:
DATE: 02/27/95
STATION: Sta A (0.5,1.5,2.5,3.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	663.00	118	78,234	
Taxon Subtotal	**663**		**78,234**	
Chlorophyta				
Quadrigula sp.	2.00	340	680	
Shroederia sp.	3.00	171	513	
Taxon Subtotal	**5**		**1,193**	
Chrysophyta				
Mallomonas sp. A	1.00	4,308	4,308	
Synura uvella	10.00	1,846	18,463	colony broken up
Bacillariophyceae				
Asterionella formosa	16.00	371	5,943	
Cyclotella sp.	12.00	7,385	88,623	
Melosira sp. A	20.00	957	19,149	
Stephanodiscus sp.	3.00	36,173	108,518	
Synedra sp.	1.00	293	293	
Diatom sp.	3.00	528	1,583	
Taxon Subtotal	**66**		**246,881**	
Cryptophyta				
Cryptomonas erosa	58.00	1,641	95,188	
cryptomonad (Chroomonas?)	33.00	1,143	37,718	
Rhodomonas sp.	508.00	366	186,097	
Taxon Subtotal	**599**		**319,003**	
Euglenophyta				
Trachelomonas sp. 1(sph)	2.00	2,571	5,142	
Taxon Subtotal	**2**		**5,142**	
Pyrrhophyta				
dinoflagellate (tiny)	6.00	821	4,924	
Taxon Subtotal	**6**		**4,924**	
Chloromonadophyta				

Total Number/ml	**1341**	**Total Volume (u3/ml)**	**655,377**
% Cyanophyta	49.44	% Cyanophyta	11.94
% Chlorophyta	0.37	% Chlorophyta	0.18
% Chrysophyta	4.92	% Chrysophyta	37.67
% Cryptophyta	44.67	% Cryptophyta	48.67
% Euglenophyta	0.15	% Euglenophyta	0.78
% Pyrrhophyta	0.45	% Pyrrhophyta	0.75

Note: *=colony/ml

LAKE SAWYER PHASE I

LAKE ZOOPLANKTON DATA

WATER Environmental Services, Inc.

STATION: Lake Sawyer Sta#B NOTE: sample contained phyto-Melosira/Asterionella

DATE: 14 Mar 95

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	302	0	2.5	756
Skistodiaptomus oregonensis	1.26	1.54	1,637	6.6	12	14,204
Order Cyclopoida						
Copepodid		0.6-0.7	5,037	0	2	10,074
Diacyclops bicuspidatus thomasi	1.00	1.16	630	3	5.5	3,463
Nauplii (cal+cyc)		<.3	28,963	0	0.25	7,241
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	19,519	0	5	97,593
Daphnia pulex/pulicaria group		2.00	5,037	0	40	201,481
Daphnia galeata mendotae		1.75	3,778	8	27	102,000 pt helmets
Bosmina longirostris (juv)		0.28	252	0	0.7	176
Class Insecta						
Order Diptera						
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	14,607	0	0.02	292
Keratella cochlearis		0.16	11,081	0	0.01	111
Keratella earlinae		0.21	504	0	0.02	10
Keratella hiemalis		0.14	7,556	0	0.04	302
Notholca acuminata		0.27	252	0	0.08	20
Notholca sp.		0.14	252	0	0.02	5
Type 2 (mostly illoricate virgates/incudates)						
Gastropus sp.(small)		0.14	16,370	0	0.04	655
Polyarthra major		0.14	6,548	0	0.07	458
Polyarthra major		0.17	504	0	0.09	45
Synchaeta sp. B		0.28	7,556	0	0.2	1,511
Synchaeta sp. B		0.21	6,296	0	0.075	472
Synchaeta sp. A		0.15	756	0	0.03	23
Type 3 (mostly malleoramates)						
Filinia sp.		0.18	756	0	0.045	34
Pompholyx sulcata		0.09	1,007	0	0.01	10
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	139,199	**139.20**	**440,937**	**440.94**
% Calanoid Copepods	1.39		3.39	
% Cyclopoid Copepods	4.07		3.07	
% Nauplii	20.81		1.64	
% Cladocerans	20.54		91.00	
% Rotifers	53.19		0.90	
% Dipterans	0.00		0.00	

Number of species in sample 17

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: sample contained phyto-Melosira/Asterionella

DATE: 14 Mar 95

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3	
PHYLUM ARTHROPODA							
Subphylum Crustacea							
Subclass Copepoda							
Order Calanoida							
Copepodid		0.6-0.7	160	0	2.5	400	
Skistodiaptomus oregonensis	1.30	1.40	1,040	6.6	12	10,320	
Order Cyclopoida							
Copepodid		0.6-0.7	6,000	0	2	12,000	
Orthocyclops modestus	0.90	1.05	40	3	5	200	
Diacyclops bicuspidatus thomasi	1.00	1.16	440	3	5.5	2,120	
Nauplii (cal+cyc)		<.3	51,000	0	0.25	12,750	
Class Branchiopoda(cladocerans)							
Daphnia (juv)		<1.0	1,280	0	5	6,400	
Daphnia pulex/pulicaria group		2.00	400	0	40	16,000	
Daphnia galeata mendotae		1.75	200	8	27	5,400	pt helmets
Chydorus sphaericus		0.28	200	0	2.5	500	
Chydorus sphaericus (juv)		0.25	200	0	0.65	130	
Class Insecta							
Order Diptera							
PHYLUM ROTIFERA							
Type 1 (mostly loricated malleates)							
Kellicottia longispina		0.21	17,000	0	0.02	340	
Keratella cochlearis		0.16	30,400	0	0.01	304	
Keratella earlinae		0.21	1,000	0	0.02	20	
Keratella hiemalis		0.14	7,600	0	0.04	304	
Type 2 (mostly illoricate virgates/incudates)							
Gastropus sp.(small)		0.14	30,600	0	0.04	1,224	
Polyarthra sp. A		0.10	600	0	0.03	18	
Polyarthra major		0.15	5,600	0	0.07	392	
Synchaeta sp. B		0.28	5,000	0	0.2	1,000	
Synchaeta sp. B		0.21	6,200	0	0.075	465	
Synchaeta sp. A		0.15	2,200	0	0.03	66	
Type 3 (mostly malleoramates)							
Conochilus sp.		0.18	400	0	0.02	8	
Filinia sp.		0.16	2,000	0	0.04	80	
Pompholyx sulcata		0.09	600	0	0.01	6	
Others							

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	170,160	170.16	70,447	70.45
% Calanoid Copepods	0.71		15.22	
% Cyclopoid Copepods	3.81		20.33	
% Nauplii	29.97		18.10	
% Cladocerans	1.34		40.36	
% Rotifers	64.17		6.00	
% Dipterans	0.00		0.00	

Number of species in sample 18

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 03/14/95
STATION: Sta B (0.5,1.5,2.5,3.5,4.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	585.00	118	69,030	
Taxon Subtotal	**585**		**69,030**	
Chlorophyta				
Pandorina morum	8.00	335	2,679	
* *Pandorina morum*	4.00	9,906	39,623	tiny colonies
Planktosphaeria gelatinosa	8.00	523	4,187	
Shroederia sp.	10.00	251	2,512	
nannoplankton unicell (ell)	66.00	565	37,303	
Taxon Subtotal	**96**		**86,304**	
Chrysophyta				
Bacillariophyceae				
Asterionella formosa	72.00	371	26,745	
Cyclotella sp.	3.00	3,140	9,420	
Cyclotella sp.	21.00	7,385	155,091	
Melosira sp.	51.00	1,507	76,867	
Stephanodiscus sp.	2.00	33,221	66,442	
Synedra cyclopum	1.00	1,282	1,282	
Taxon Subtotal	**150**		**335,848**	
Cryptophyta				
Cryptomonas erosa	26.00	1,641	42,671	
Cryptomonas sp.	1.00	3,768	3,768	
cryptomonad (Chroomonas?)	23.00	980	22,533	
Rhodomonas sp.	435.00	366	159,355	
Taxon Subtotal	**485**		**228,326**	
Euglenophyta				
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1316**	**Total Volume (u3/ml)**	**719,508**
% Cyanophyta	44.45	% Cyanophyta	9.59
% Chlorophyta	7.30	% Chlorophyta	12.00
% Chrysophyta	11.40	% Chrysophyta	46.68
% Cryptophyta	36.85	% Cryptophyta	31.73

Note: *=colony/ml

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 03/14/95
STATION: Sta A (0.5,1.5,2.5,3.5,4.5m comp)

NOTE:
SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Anabaena sp.	10.00	124	1,243	short coil
Aphanizomenon flos-aquae	611.00	118	72,098	
Taxon Subtotal	**621**		**73,341**	
Chlorophyta				
Pandorina morum	32.00	1,055	33,761	
* *Pandorina morum*	1.00	9,906	9,906	tiny colony
Shroederia sp.	2.00	171	342	
nannoplankton unicell(sph)	2.00	1,436	2,872	flagellated
nannoplankton unicell(ell)	10.00	393	3,925	
Taxon Subtotal	**47**		**50,806**	
Chrysophyta				
Bacillariophyceae				
Asterionella formosa	64.00	371	23,774	
Cyclotella sp.	29.00	6,368	184,670	
Fragilaria crotonensis	10.00	683	6,830	
Melosira sp. A	124.00	1,407	174,433	
Stephanodiscus sp.	7.00	33,221	232,548	
Stephanodiscus sp.	1.00	107,702	107,702	
Synedra sp.	1.00	293	293	
Taxon Subtotal	**236**		**730,250**	
Cryptophyta				
Cryptomonas erosa	16.00	1,524	24,383	
cryptomonad (Chroomonas?)	10.00	1,055	10,550	
Rhodomonas sp.	440.00	366	161,187	
Taxon Subtotal	**466**		**196,120**	
Euglenophyta				
Trachelomonas sp. 1(sph)	2.00	2,571	5,142	
Taxon Subtotal	**2**		**5,142**	
Pyrrhophyta				
Chloromonadophyta				

Total Number/ml	**1372**	**Total Volume (u3/ml)**	**1,055,660**
% Cyanophyta	45.26	% Cyanophyta	6.95
% Chlorophyta	3.43	% Chlorophyta	4.81
% Chrysophyta	17.20	% Chrysophyta	69.17
% Cryptophyta	33.96	% Cryptophyta	18.58
% Euglenophyta	0.15	% Euglenophyta	0.49

Note: *=colony/ml

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#B NOTE: sample loaded w/phyto-Asterionella/Melosira

DATE: 20 Apr 95

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	3,230	0	2.5	8,074
Skistodiaptomus oregonensis	1.26	1.54	840	6.6	12	8,332
Order Cyclopoida						
Copepodid		0.6-0.7	4,521	0	2	9,043
Diacyclops bicuspidatus thomasi	1.00	1.16	258	3	5.5	1,421
Nauplii (cal+cyc)		<.3	13,241	0	0.25	3,310
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	775	0	5	3,876
Daphnia pulex/pulicaria group		1.90	129	0	35	4,521
Daphnia galeata mendotae		1.75	65	8	27	1,744 pt helmets
Class Insecta						
Order Diptera						
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	11,627	0	0.02	233
Keratella cochlearis		0.16	18,732	0	0.01	187
Keratella earlinae		0.21	1,938	0	0.02	39
Keratella hiemalis		0.14	323	0	0.04	13
Notholca sp.		0.15	323	0	0.02	6
Type 2 (mostly lilloricate virgates/incudates)						
Polyarthra major		0.14	27,129	0	0.07	1,899
Synchaeta sp. B		0.28	5,813	0	0.2	1,163
Synchaeta sp. B		0.21	14,210	0	0.075	1,066
Synchaeta sp. A		0.15	3,230	0	0.03	97
Type 3 (mostly malleoramates)						
Conochilus sp. (large)		0.20	646	0	0.02	13
Filinia sp.		0.18	4,199	0	0.045	189
Pompholyx sulcata		0.09	1,292	0	0.01	13
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	112,520	112.52	45,239	45.24
% Calanoid Copepods	3.62		36.27	
% Cyclopoid Copepods	4.25		23.13	
% Nauplii	11.77		7.32	
% Cladocerans	0.86		22.42	
% Rotifers	79.51		10.87	
% Dipterans	0.00		0.00	

Number of species in sample 15

LAKE SAWYER PHASE I

WATER Environmental Services, Inc.

LAKE ZOOPLANKTON DATA

STATION: Lake Sawyer Sta#A NOTE: sample loaded w/ phyto-Asterionella/Melosira

DATE: 20 Apr 95

Taxon	Ave lngth male(mm)	Ave lngth fem (mm)	#/m3	Estim. Dry wt. ug/male	Estim. Dry wt. ug/fem	ug/m3
PHYLUM ARTHROPODA						
Subphylum Crustacea						
Subclass Copepoda						
Order Calanoida						
Copepodid		0.6-0.7	2,750	0	2.5	6,875
Skistodiaptomus oregonensis	1.30	1.40	813	6.6	12	7,725
Order Cyclopoida						
Copepodid		0.6-0.7	3,750	0	2	7,500
Orthocyclops modestus	0.90	1.05	63	3	5	313
Diacyclops bicuspidatus thomasi	1.00	1.16	125	3	5.5	688
Nauplii (cal+cyc)		<.3	14,375	0	0.25	3,594
Class Branchiopoda(cladocerans)						
Daphnia (juv)		<1.0	875	0	5	4,375
Daphnia pulex/pulicaria group		1.90	1,313	0	35	45,938
Daphnia galeata mendotae		1.75	188	8	27	5,063 pt helmets
Class Insecta						
Order Diptera						
PHYLUM ROTIFERA						
Type 1 (mostly loricated malleates)						
Kellicottia longispina		0.21	8,438	0	0.02	169
Keratella cochlearis		0.16	35,938	0	0.01	359
Keratella earlinae		0.21	3,125	0	0.02	63
Keratella hiemalis		0.14	2,500	0	0.04	100
Type 2 (mostly illoricate virgates/incudates)						
Polyarthra sp. A		0.10	938	0	0.03	28
Polyarthra major		0.15	20,938	0	0.07	1,466
Synchaeta sp. B		0.28	5,938	0	0.2	1,188
Synchaeta sp. B		0.21	9,063	0	0.075	680
Synchaeta sp. A		0.15	5,000	0	0.03	150
Trichocerca porcellus		0.15	313	0	0.03	9
Type 3 (mostly malleoramates)						
Conochilus sp.		0.20	313	0	0.02	6
Filinia sp.		0.16	12,188	0	0.04	488
Pompholyx sulcata		0.09	313	0	0.01	3
Others						

	Total Density #/m3	#/L	Total Dry Wt. Biomass ug/m3	ug/L
	129,250	**129.25**	**86,777**	**86.78**
% Calanoid Copepods	2.76		16.82	
% Cyclopoid Copepods	3.05		9.80	
% Nauplii	11.12		4.14	
% Cladocerans	1.84		63.81	
% Rotifers	81.24		5.43	
% Dipterans	0.00		0.00	
Number of species	17			

LAKE SAWYER PHASE I
LAKE PHYTOPLANKTON
DATE: 04/20/95
STATION: Sta B (0.5,1.5,2.5,3.5,4.5m comp) SAMPLE STATUS: PRESERVED, LUGOL'S

Taxon	Cells/ml	u3/cell	µ3/ml	Comments
Cyanophyta				
Aphanizomenon flos-aquae	2,795.00	118	329,810	
Taxon Subtotal	2795		329,810	
Chlorophyta				
Ankistrodesmus falcatus	1.00	126	126	
Pandorina morum	64.00	151	9,646	
* *Pandorina morum*	7.00	9,906	69,340	tiny colonies
Planktosphaeria gelatinosa	8.00	523	4,187	
nannoplankton unicell(sph)	2.00	1,436	2,872	lamellate
colonial nannoplankton(ell)	4.00	226	904	
Taxon Subtotal	86		87,074	
Chrysophyta				
Dinobryon sp.	180.00	770	138,662	
Mallomonas sp. A	9.00	2,872	25,848	
Bacillariophyceae				
Asterionella formosa	760.00	371	282,311	
Cyclotella sp.	208.00	5,426	1,128,591	
Fragilaria crotonensis	30.00	683	20,490	
Melosira sp.	5.00	2,198	10,990	
Synedra cyclopum	3.00	1,282	3,847	
Synedra sp.	1.00	419	419	
Tabellaria fenestrata	6.00	4,800	28,800	
Taxon Subtotal	1202		1,639,959	
Cryptophyta				
Cryptomonas erosa	16.00	1,641	26,259	
Cryptomonas sp. (large)	4.00	7,034	28,134	
Cryptomonas sp.	1.00	3,768	3,768	
cryptomonad (Chroomonas?)	3.00	980	2,939	
Rhodomonas sp.	484.00	366	177,305	
Taxon Subtotal	508		238,406	
Euglenophyta				
Trachelomonas sp. 1(sph)	4.00	2,571	10,285	
Taxon Subtotal	4		10,285	
Pyrrhophyta				
Peridinium sp.	1.00	62,172	62,172	
Peridinium sp.	1.00	36,633	36,633	
Taxon Subtotal	2		98,805	
Chloromonadophyta				

Total Number/ml	**4597**	**Total Volume (u3/ml)**	**2,404,338**
% Cyanophyta	60.80	% Cyanophyta	13.72
% Chlorophyta	1.87	% Chlorophyta	3.62
% Chrysophyta	26.15	% Chrysophyta	68.21
% Cryptophyta	11.05	% Cryptophyta	9.91
% Euglenophyta	0.09	% Euglenophyta	0.43
% Pyrrhophyta	0.04	% Pyrrhophyta	4.11

Note: *=colony/ml

SAWYER LAKE
BENTHIC INVERTEBRATES
DATE: 6/23/94
SAMPLE: "Shallow littoral site"

TAXA		No. organisms	No./m2
Annelida			
	Oligochaeta	1	
	Branchiobdellida	3	
Crustacea			
	Isopoda		
	Asellidae		
	Asellus occidentalis	10	
	Amphipoda		
	Talitridae		
	Hyalella azteca	1	
	Gammaridae	2	
Insecta			
	Diptera		
	Chironomidae	10	
	TOTAL	27	

DATE: 6/23/94
SAMPLE: "Sawyer A Deep Station"

TAXA		No. organisms	No./m2
Annelida			
	Oligochaeta	2	
	Branchiobdellida	2	
Insecta			
	Diptera		
	Chironomidae	2	
	Culicidae		
	Chaoborus spp.	12	
	Heleidae	1	
	TOTAL	19	

SAWYER LAKE
BENTHIC INVERTEBRATES
DATE: 8/4/94
SAMPLE: "Near Sawyer C Littoral Area (6.0m)"

TAXA		No. organisms	No./m2
Annelida			
	Oligochaeta	44	
	Branchiobdellida	2	
Crustacea			
	Amphipoda		
	Gammaridae	7	
Insecta			
	Diptera		
	Chironomidae	68	
	Culicidae		
	Chaoborus spp.	2	
Mollusca			
	Gastropoda		
	Lymnaeidae		
	Lymnaea spp.	1	
	TOTAL	124	

DATE: 8/4/94
SAMPLE: "Sawyer B"

TAXA		No. organisms	No./m2
Annelida			
	Oligochaeta	1	
Insecta			
	Diptera		
	Culicidae		
	Chaoborus spp.	16	
	TOTAL	17	

SAWYER LAKE
BENTHIC INVERTEBRATES
DATE: 10/13/94
SAMPLE: Sawyer E (DOE 1)

TAXA		No. organisms
Annelida		
	Oligochaeta	34
Insecta		
	Diptera	
	Chironomidae	58
	Culicidae	
	Chaoborus spp.	3
	TOTAL	95

DATE: 10/13/94
SAMPLE: Sawyer F (near outlet channel)

TAXA		No. organisms
Annelida		
	Oligochaeta	35
	Branchiobdellida	2
Crustacea		
	Isopoda	
	Sphaeromidae	
	Gnorimosphaeroma oregonensis	1
	Amphipoda	
	Gammaridae	
	Gammarus lacustris	6
Mollusca		
	Pelecypoda	
	Sphaeriidae	5
Insecta		
	Diptera	
	Chironomidae	23
	TOTAL	72