APPENDIX A

Location of Monitoring Stations

Table A1. Instream Monitoring Station Locations

Station Name	Stream Name	Station Description	North Coordinate	West Coordinate
Bear Creek Watershed				
BEAR1.0	Bear Creek	At mouth	41°40’59.725”	77°03’51.624”
Canoe Camp Creek Watershed				
CANO1.0	Canoe Camp Creek	Upstream of old Route 15 bridge	41°46’56.956”	77°04’08.736”
Coal Creek Watershed				
COAL1.0	Coal Creek	Upstream of St. Mary’s Cemetery	41°40’16.959”	77°03’29.302”
COAL2.0	Coal Creek	Upstream of “Mohawk Lane” bridge	41°40’53.195”	77°02’22.652”
Corey Creek Watershed				
CORY1.0	Corey Creek	Upstream of Route 549 bridge	41°48’01.398”	77°02’46.243”
Crooked Creek Watershed				
CROO1.0	Crooked Creek	Upstream of railroad bridge	41°51’22.228”	77°14’06.378”
CATL1.0	Catlin Hollow	Upstream of private drive on SR4035	41°49’07.139”	77°16’39.723”
HILL1.0	Hills Creek	Upstream of SR4039 bridge	41°51’23.287”	77°13’30.546”
NORR1.0	Norris Brook	Upstream of T584 bridge	41°49’29.621”	77°17’09.391”
East Creek Watershed				
UNT8.0	Unnamed tributary to East Creek	At mouth	41°42’00.741”	77°03’24.663”
Elk Run Watershed				
ELKR1.0	Elk Run	Upstream of Route 660 bridge	41°45’38.350”	77°06’11.942”
Ellen Run Watershed				
ELLN1.0	Ellen Run	Downstream of T754 bridge	41°48’17.442”	77°05’00.445”
Fall Brook Watershed				
FALL1.0	Fall Brook	At mouth	41°39’24.819”	77°00’17.139”
FALL2.0	Fall Brook	Upstream of SR2014 bridge	41°40’42.660”	76°59’15.780”
FALL2.5	Fall Brook	Downstream of unnamed tributary	41°41’06.517”	76°59’11.018”
FALL2.6	Fall Brook	Upstream of unnamed tributary	41°41’09.337”	76°59’10.979”
FALL3.0	Fall Brook	Upstream of T834 bridge	41°42’27.548”	76°58’50.426”
UNT2.0	Unnamed tributary to Fall Brook	At mouth of wetland	41°41’22.139”	76°59’29.400”
Fellows Creek Watershed				
FELL1.0	Fellows Creek	Upstream of T390 bridge	41°41’08.340”	76°56’13.320”
FELL2.0	Fellows Creek	Downstream of gated road	41°42’58.260”	76°57’07.200”
FELL3.0	Fellows Creek	Upstream of Old Possessions Road bridge	41°43’47.340”	76°56’47.400”
Johnson Creek Watershed				
JOHN1.0	Johnson Creek	At mouth	41°40’41.629”	77°04’04.832”
JOHN2.0	Johnson Creek	At trail crossing bridge	41°39’40.237”	77°05’56.755”
JOHN3.0	Johnson Creek	Downstream of Elm Street Bridge	41°39’49.061”	77°07’09.981”

Station Name	Stream Name	Station Description	North Coordinate	West Coordinate
UNT5.0	Unnamed tributary to Johnson Creek	At mouth	41°39’52.025”	77°04’49.774”
UNT7.0	Unnamed tributary to Johnson Creek	At mouth	41°39’43.553”	77°06’28.092”
BELL1.0	Bellman Run	Upstream of Blossburg water tower	41°39’10.275”	77°05’40.075”
UNT6.0	Unnamed tributary to Bellman Run	At mouth	41°38’20.409”	77°05’59.449”
Lambs Creek Watershed				
LAMB1.0	Lambs Creek	At mouth	41°50’29.142”	77°06’26.012”
Marvin Creek Watershed				
MARV1.0	Marvin Creek	Upstream of SR2025 bridge	41°43’46.105”	77°05’11.632”
McIntosh Hollow Watershed				
MCIN1.0	McIntosh Hollow	Upstream of T390 bridge	41°42’51.013”	76°54’30.497”
Mill Creek Watershed				
MILL1.0	Mill Creek	At end of SR1004	41°52’24.230”	77°06’05.475”
Morris Run Watershed				
MORR1.0	Morris Run	At pipeline crossing	41°39’46.964”	77°02’21.507”
MORR2.0	Morris Run	At SR2024 bridge	41°40’15.108”	77°01’37.704”
MORR3.0	Morris Run	Upstream of T800	41°41’31.071”	77°00’40.344”
UNT3.0	Unnamed tributary to Morris Run	At mouth of wetland	41°41’18.739”	76°59’49.759”
Rathbone Creek Watershed				
RATH1.0	Rathbone Creek	At mouth	41°43’17.996”	76°53’33.587”
South Creek Watershed				
SOUT1.0	South Creek	At mouth	41°40’18.900”	76°56’46.680”
Taylor Run Watershed				
UNT4.0	Unnamed tributary to Taylor Run	Upstream of SR2017	41°39’16.439”	77°02’39.419”
Tioga River Mainstem Watershed				
TIOG1.0	Tioga River	Upstream of USGS gauging station	41°47’46.638	77°04’48.392”
TIOG2.0	Tioga River	Upstream of Route 15 bridge	41°43’34.101”	77°41’53.628”
TIOG3.0	Tioga River	At Island Park	41°40’39.231”	77°04’01.545”
TIOG4.0	Tioga River	Upstream of Carpenter Run	41°39’13.621”	77°01’53.182”
TIOG5.0	Tioga River	Upstream of Bear Run	41°39’36.878”	76°58’25.439”
TIOG6.0	Tioga River	At County Bridge Picnic area	41°40’47.417”	76°56’27.117”
TIOG7.0	Tioga River	Upstream of T431 bridge	41°41’40.380”	76°55’53.400”
TIOG8.0	Tioga River	Upstream of SR3032	41°44’13.093”	76°53’21.797”
UNT1.0	Unnamed tributary to Tioga River	Downstream of T390	41°40’16.285”	76°58’01.570”

Table A2. Abandoned Mine Discharge Locations

Discharge Name	Discharge Description	North Coordinate	West Coordinate
Bear Creek Watershed			
DBC100	Continuous artesian discharge to stream bottom	41°41’08.905”	77°03’08.493”
DBC102	Continuous discharge from collapsed drift	41°41’08.108”	77°03’09.508”
DBC103	Intermittent discharge from collapsed drift	41°41’07.908”	77°03’08.820”
DBC104	Intermittent discharge from collapsed drift	41°41’24.360”	77°02’46.968”
Coal Creek Watershed			
DCC005	Continuous discharge from opening across stream from Journey’s End Camp	41°40’34.625”	77°03’00.451”
DCC100	Intermittent discharge from seepage area	41°40’15.918”	77°03’11.484”
East Creek Watershed			
DEC001	Intermittent discharge from refuse piles	41°42’44.596”	77°01’42.633”
Fall Brook Watershed			
DFB099	Continuous discharge from collapsed drift near State Forest boundary	41°40’18.020”	76°59’20.451”
DFB001	Continuous discharge from pipe in well at power line crossing	41°40’43.709”	76°59’06.055”
DFB002	Continuous artesian discharge into orange swamp	41°40’51.821	76°59’05.958”
DFB003	Intermittent discharge from collapsed drift above DFB002	41°40’52.014”	76°59’03.293”
DFB004	Continuous discharge from collapsed drift along T834	41°40’59.488”	76°59’01.922”
DFB100	Continuous discharge from pipe into pond behind Fall Brook Hunting Club	41°41’10.547”	76°58’58.093”
DFB900	Continuous discharge from diffuse dead tree area adjacent to stream (contaminated groundwater recharge)	41°40’16.140”	76°59’34.260”
DFB901	Intermittent discharge from along abandoned railroad grade (contaminated groundwater recharge)	41°39’57.540”	76°59’47.580”
DFB902	Continuous discharge from along abandoned railroad grade (contaminated groundwater recharge)	41°40’04.620”	76°59’40.380”
DFB903	Continuous discharge from mossy seep area on hillside (contaminated groundwater recharge)	41°40’18.780”	76°59’28.500”
Morris Run Watershed			
DMR001	Continuous discharge from Tioga Mine at end of Tioga Street	41°40’14.379”	77°01’16.563”
DMR003	Continuous discharge from East Mine behind St. Joseph’s Catholic Church	41°40’14.379”	77°01’16.563”
DMR004	Continuous discharge from Lake Mine behind pallet factory	41°40’53.131”	77°00’43.724”
DMR100	Continuous diffuse discharge from wooded area	41°40’28.560”	77°01’31.044”
DMR101	Continuous discharge from rusted well casing	41°40’28.452”	77°01’30.252”
DMR105	Continuous discharge at SR2024 bridge (contaminated groundwater recharge)	41°40’15.816”	77°01’37.272”
DMR600	Intermittent diffuse discharge from reclaimed surface mine	41°40’29.052”	77°00’39.995”
DMR900	Intermittent discharge from collapsed drift along jeep trail	41°39’54.340”	77°01’47.121”
DMR901	Intermittent discharge from toe of reclaimed surface mine	41°40’56.125”	77°00’22.391”
DMR902	Continuous discharge from pipe on reclaimed surface mine	41°40’45.200”	77°01’51.906”
Tioga River Mainstem			
DTR001	Continuous discharge from South Mountain	41°39’24.480”	77°03’46.584”
DTR002	Continuous discharge from South Mountain	41°39’24.696”	77°03’39.996”
Johnson Creek Watershed			
DJC106	Continuous discharge from Flower Run mine at collapsed drift	41°39’21.240”	77°05’57.192”
DJC900	Continuous discharge into bottom of strip cut; called #5 discharge	41°40’00.007”	77°06’34.091”
DJC901	Continuous discharge from toe of abandoned surface mine	41°39’33.000”	77°03’56.640”
DJC904	Continuous discharge from Arnot#2 mine into bottom of strip cut	41°40’12.794”	77°07’50.300”
DJC905	Intermittent discharge from bottom of refuse pile	41°39’53.341”	77°06’39.536”
DJC906	Continuous discharge from bottom of refuse pile	41°39’35.044”	77°06’34.494”
DJC907	Continuous discharge from toe of reclaimed surface mine and deep mine opening in impoundment	41°39’13.553”	77°04’08.816”

Table A3. Discharge Monitoring Station Locations

Station Name	Stream Name Station Description	North Coordinate	West Coordinate
	Bear Creek Watershed		
DBC101	Aggregation of discharge waters from DBC100-104; sampled in channel immediately below confluence of all discharges	41°41’07.489”	77°03’08.672°
DBC100	Continuous artesian discharge to stream bottom	41°41’08.905”	77°03’08.493”
DBC102	Continuous discharge from collapsed drift	41°41’08.108”	77°03’09.508”
DBC103	Intermittent discharge from collapsed drift	41°41’07.908”	77°03’08.820”
DBC104	Intermittent discharge from collapsed drift	41°41’24.360”	77°02’46.968”
	Coal Creek Watershed		
DCC005	Sampled in concrete weir at mine opening across stream from Journey’s End Camp	41°40’34.625”	77°03’00.451”
	Fall Brook Watershed		
DFB099	Continuous discharge from collapsed drift near state forest boundary	41°40’18.020”	76°59’20.451”
DFB001	Continuous discharge from pipe in well at power line crossing	41°40’43.709”	76°59’06.055”
DFB002	Continuous artesian discharge into orange swamp	41°40’51.821”	76°59’05.958”
DFB003	Intermittent discharge from collapsed drift above DFB002	41°40’52.014”	76°59’03.293”
DFB004	Continuous discharge from collapsed drift along T834	41°40’59.488”	76°59’01.922”
DFB100	Continuous discharge from pipe into pond behind Fall Brook Hunting Club	41°41’10.547”	76°58’28.093”
	Morris Run Watershed		
DMR001	Continuous discharge from Tioga Mine at end of Tioga Street	41°40’26.922”	77°01’02.407”
DMR003	Continuous discharge from East Mine behind St. Joseph’s Catholic Church	41°40’14.379”	77°01’16.563”
DMR004	Continuous discharge from Lake Mine behind pallet factory	41°40’53.131”	77°00’43.724”
	Tioga River Mainstem		
DTR003	Aggregation of discharge waters from DTR001, DTR002; sampled upstream of confluence of tributary with the Tioga River	41°39’48.900”	77°03’24.840”
	Johnson Creek Watershed		
DJC106	Continuous discharge from Flower Run mine at collapsed drift	41°39’21.240”	77°05’57.192”
DJC900	Continuous discharge into bottom of strip cut; called #5 discharge	41°40’00.007”	77°06’34.091”
DJC902	Aggregation of discharge waters from the DJC907 area; sampled at aggregation point	41°39’17.416”	77°04’19.246”
DJC903	Aggregation of discharge waters from the DJC901 area; sampled at mouth of tributary formed by discharge waters	41°39’35.040”	77°04’28.470”
DJC904	Continuous discharge from Arnot#2 mine into bottom of strip cut	41°40’12.794”	77°07’50.300”

Appendix B

Water Quality Sampling Data

Table B1 and B2 Acronyms

DO	Dissolved Oxygen
Cond.	Conductivity
TSS	Total Suspended Solids
Ca	Total Calcium
Mg	Total Magnesium
SO_4	Total Sulfate
Fe	Total Iron
Fer Fe	Total Ferrous Iron
Hard	Total Hardness
Mn	Total Manganese
Al	Total Aluminum
Alk	Total Alkalinity
Hot Acid	Total Hot Acidity
NMF	No measurable flow: water standing in small pools
PS	Pipe submerged: discharge pipe into pond underwater, unable to measure flow
D	Dry: no water in channel
*	No data available

- Flow is listed in units of cubic feet per second.
- Concentrations are listed in units of milligrams per liter (mg/l) with the exception of the metals iron, manganese and aluminum, which are listed in units of micrograms per liter (µg/l).
- pH is listed in specific units (SU).
- Conductivity is listed in units of micromhos (µΩ).
- Data recorded at the detection limit were included in computations as the value of the detection limit (<3.0 is used as 3.0 in computations for averages); this ensures that the average value is conservative of at least the concentration of the detection limit.

Table B1. Tioga Seasonal Data

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
TIOG1.0	4/23/2001	403.000	5.90	5.00	144.0	6.0	10.90	4.25	38.0	809.0	822.0	938.0	7.0	6.6
	6/4/2001	78.000	4.95	7.61	222.0	<3.0	16.50	7.75	80.9	<300.0	1680.0	1920.0	10.8	11.8
	10/9/2001	68.000	4.15	7.69	281.0	6.0	18.40	9.29	95.9	390.0	2200.0	2960.0	8.0	66.2
	3/5/2002	124.000	5.70	10.07	201.0	14.0	14.50	5.79	58.7	1060.0	1050.0	1660.0	8.6	27.2
	5/28/2002	177.000	4.50	8.97	220.0	<3.0	12.60	6.24	60.4	591.0	1370.0	1820.0	7.0	51.8
	8/20/2002	15.000	3.80	5.19	552.0	4.0	41.30	21.30	<20.0	<300.0	4970.0	7940.0	1.8	118.4
	Average	***144.167***	***4.83***	***7.42***	***270.0***	***6.0***	***19.03***	***9.10***	***59.0***	***575.0***	***2015.3***	***2873.0***	***7.2***	***47.0***
TIOG2.0	4/30/2001	349.510	3.50	5.70	258.0	<3.0	*	*	70.3	*	*	*	1.4	26.0
	6/11/2001	32.575	3.90	6.74	385.0	<3.0	20.40	11.60	100.1	520.0	2810.0	3880.0	0.0	49.0
	10/18/2001	59.028	4.10	7.02	178.0	<3.0	10.60	5.60	32.0	761.0	1370.0	1550.0	5.8	98.2
	3/19/2002	114.128	4.00	9.80	224.0	4.0	11.80	6.31	23.8	870.0	1470.0	1920.0	4.8	58.8
	6/13/2002	160.850	3.90	7.19	271.0	<3.0	13.40	7.97	50.2	941.0	1920.0	2640.0	2.0	46.8
	8/19/2002	14.589	3.40	5.25	633.0	<3.0	39.10	21.60	245.1	605.0	5230.0	8760.0	0.0	109.4
	Average	***121.780***	***3.80***	***6.95***	***324.8***	***3.2***	***19.06***	***10.62***	***86.9***	***739.4***	***2560.0***	***3750.0***	***2.3***	***64.7***
TIOG3.0	4/30/2001	282.100	3.40	6.49	278.0	<3.0	24.50	17.00	74.0	4070.0	4480.0	6390.0	0.0	36.0
	6/11/2001	23.848	3.50	6.97	446.0	<3.0	20.30	13.20	136.5	2440.0	3570.0	5610.0	0.0	64.6
	10/10/2001	43.013	3.75	7.70	243.0	4.0	13.80	9.48	68.2	436.0	2940.0	2560.0	7.6	59.6
	3/13/2002	73.542	3.70	10.55	273.0	<3.0	11.90	7.48	66.8	1960.0	1980.0	2590.0	0.0	79.6
	6/11/2002	123.380	3.60	5.85	270.0	<3.0	12.30	8.74	75.7	1890.0	2350.0	3030.0	0.0	34.8
	8/19/2002	8.851	3.10	5.89	897.0	<3.0	49.20	32.20	405.2	6960.0	8460.0	14300.0	0.0	145.2
	Average	***92.456***	***3.51***	***7.24***	***401.2***	***3.2***	***22.00***	***14.68***	***137.7***	***2959.3***	***3963.3***	***5746.7***	***1.3***	***70.0***
TIOG4.0	4/30/2001	172.680	4.80	6.65	89.0	<3.0	6.01	3.75	37.0	<300.0	973.0	790.0	7.6	5.4
	6/18/2001	13.916	6.65	6.58	70.0	4.0	5.34	2.33	<20.0	<300.0	473.0	<500.0	9.4	3.2
	10/10/2001	29.421	5.80	7.97	114.0	8.0	6.10	3.75	42.4	<300.0	1080.0	724.0	8.2	40.0
	3/18/2002	68.374	6.15	10.14	74.0	<3.0	5.00	2.63	37.1	<300.0	649.0	<500.0	8.2	27.6
	5/30/2002	78.842	6.05	7.96	86.0	<3.0	5.10	2.96	51.7	<300.0	792.0	559.0	7.8	35.4
	8/14/2002	3.947	5.70	5.47	212.0	4.0	13.20	8.64	88.0	<300.0	2190.0	1350.0	7.0	31.8
	Average	***61.197***	***5.86***	***7.46***	***107.5***	***4.2***	***6.79***	***4.01***	***46.0***	***300.0***	***1026.2***	***737.2***	***8.0***	***23.9***
TIOG5.0	4/30/2001	102.580	6.20	7.08	37.0	4.0	4.45	1.15	<20.0	<300.0	<50.0	<500.0	11.4	0.2
	6/12/2001	8.420	6.50	6.85	43.0	<3.0	4.18	1.02	<20.0	<300.0	<50.0	<500.0	12.8	0.0
	10/10/2001	19.734	6.65	7.49	42.0	8.0	4.05	0.96	<20.0	<300.0	<50.0	<500.0	15.6	2.4
	3/18/2002	37.451	6.30	10.13	37.0	<3.0	3.54	0.85	<20.0	<300.0	<50.0	<500.0	11.2	0.0
	5/29/2002	58.878	6.35	9.26	32.0	<3.0	2.87	0.73	<20.0	<300.0	<50.0	<500.0	10.0	15.0

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	8/14/2002	1.783	7.05	5.67	51.0	4.0	5.05	1.14	<20.0	<300.0	<50.0	<500.0	15.0	0.0
	Average	***38.141***	***6.51***	***7.75***	***40.3***	***4.2***	***4.02***	***0.97***	***20.0***	***300.0***	***50.0***	***500.0***	***12.7***	***2.9***
TIOG6.0	4/24/2001	93.610	6.60	5.69	31.0	<3.0	3.07	0.74	<20.0	<300.0	68.0	<500.0	9.2	0.0
	6/12/2001	7.329	6.80	7.18	41.0	<3.0	4.32	1.00	<20.0	<300.0	<50.0	<500.0	15.2	0.0
	10/2/2001	17.471	6.50	7.89	34.0	<3.0	3.56	0.81	<20.0	<300.0	66.0	<500.0	11.4	0.0
	3/18/2002	30.992	6.40	10.29	34.0	<3.0	3.53	0.82	<20.0	<300.0	<50.0	<500.0	11.2	0.0
	5/29/2002	43.648	6.70	9.30	29.0	<3.0	2.66	0.65	24.4	<300.0	74.0	<500.0	9.6	24.4
	8/14/2002	0.943	7.35	6.25	55.0	4.0	6.18	1.25	<20.0	<300.0	<50.0	<500.0	22.0	0.0
	Average	**32.332**	**6.73**	**7.77**	**37.3**	**3.2**	**3.89**	**0.88**	**20.7**	**300.0**	**59.7**	**500.0**	**13.1**	**4.1**
TIOG7.0	4/23/2001	50.683	6.50	5.74	34.0	<3.0	3.95	0.83	<20.0	<300.0	<50.0	<500.0	10.2	0.0
	6/12/2001	3.815	7.00	7.16	55.0	<3.0	6.10	1.19	<20.0	<300.0	<50.0	<500.0	22.0	0.0
	10/2/2001	9.759	6.70	7.58	42.0	<3.0	4.63	0.92	<20.0	<300.0	<50.0	<500.0	15.4	0.0
	3/18/2002	20.838	6.45	10.55	41.0	6.0	4.51	0.91	<20.0	<300.0	<50.0	<500.0	14.6	0.0
	5/28/2002	20.660	6.80	10.66	37.0	<3.0	4.27	0.88	25.2	<300.0	<50.0	<500.0	14.4	0.0
	8/13/2002	1.611	7.50	6.26	62.0	<3.0	7.65	1.44	41.0	<300.0	<50.0	<500.0	28.0	0.0
	Average	***17.894***	***6.83***	***7.99***	***45.2***	***3.5***	***5.19***	***1.03***	***24.4***	***300.0***	***50.0***	***500.0***	***17.4***	***0.0***
TIOG8.0	4/23/2001	6.793	6.80	5.49	40.0	<3.0	4.58	0.97	22.3	<300.0	<50.0	<500.0	11.0	0.0
	6/4/2001	1.053	7.10	8.71	57.0	<3.0	6.92	1.28	23.4	<300.0	<50.0	<500.0	26.0	0.0
	10/1/2001	1.859	6.75	8.02	48.0	<3.0	5.79	1.16	27.9	<300.0	<50.0	<500.0	18.6	18.4
	3/6/2002	2.133	6.30	10.71	51.0	<3.0	5.50	1.10	<20.0	<300.0	<50.0	<500.0	17.6	2.8
	5/28/2002	2.522	7.10	9.42	51.0	4.0	5.75	1.14	<20.0	<300.0	<50.0	<500.0	19.4	0.0
	8/13/2002	0.189	7.90	6.42	99.0	<3.0	14.00	2.37	20.7	<300.0	<50.0	<500.0	48.0	0.0
	Average	***2.425***	***6.99***	***8.13***	***57.7***	***3.2***	***7.09***	***1.34***	***22.4***	***300.0***	***50.0***	***500.0***	***23.4***	***3.5***
MCIN1.0	4/23/2001	5.985	4.15	5.57	34.0	<3.0	1.63	0.45	<20.0	<300.0	236.0	<500.0	5.2	4.6
	6/4/2001	1.157	5.30	8.56	28.0	<3.0	1.37	0.36	<20.0	<300.0	145.0	<500.0	7.6	1.6
	10/1/2001	2.092	4.60	7.49	31.0	<3.0	1.77	0.46	<20.0	<300.0	203.0	<500.0	7.0	13.6
	3/6/2002	1.632	4.50	10.89	30.0	<3.0	1.58	0.44	<20.0	<300.0	140.0	<500.0	6.2	5.2
	5/28/2002	2.214	4.50	10.43	30.0	<3.0	1.57	0.44	<20.0	<300.0	172.0	<500.0	7.2	9.2
	8/13/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***2.616***	***4.61***	***8.59***	***30.6***	***3.0***	***1.58***	***0.43***	***20.0***	***300.0***	***179.2***	***500.0***	***6.6***	***6.8***
FELL1.0	4/23/2001	20.769	4.10	5.17	35.0	<3.0	1.50	0.53	<20.0	<300.0	210.0	<500.0	5.8	4.8
	6/4/2001	6.141	5.10	8.08	29.0	<3.0	1.57	0.45	<20.0	<300.0	137.0	<500.0	7.4	4.2
	10/2/2001	7.349	4.10	7.63	33.0	<3.0	1.52	0.53	32.6	<300.0	246.0	<500.0	6.2	28.2
	3/14/2002	5.215	5.00	10.01	31.0	<3.0	1.50	0.56	<20.0	<300.0	149.0	<500.0	6.8	16.2

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	5/28/2002	9.650	4.75	9.68	30.0	<3.0	1.38	0.50	<20.0	<300.0	155.0	<500.0	6.4	19.4
	8/13/2002	0.104	5.40	4.78	32.0	<3.0	1.72	0.58	<20.0	<300.0	267.0	<500.0	7.6	8.4
	Average	***8.205***	***4.74***	***7.56***	***31.7***	***3.0***	***1.53***	***0.52***	***22.1***	***300.0***	***194.0***	***500.0***	***6.7***	***13.5***
FELL2.0	4/24/2001	15.089	4.20	6.91	35.0	<3.0	15.10	2.50	<20.0	511.0	<50.0	<500.0	3.8	7.4
	6/4/2001	5.406	5.20	8.23	29.0	<3.0	1.57	0.51	<20.0	<300.0	183.0	<500.0	7.4	4.2
	10/1/2001	6.354	4.50	7.76	34.0	<3.0	1.52	0.50	<20.0	<300.0	261.0	<500.0	6.8	30.6
	3/14/2002	4.957	4.70	10.43	31.0	<3.0	1.54	0.53	<20.0	<300.0	160.0	<500.0	6.6	28.6
	5/28/2002	9.130	5.00	10.03	31.0	<3.0	1.34	0.46	<20.0	<300.0	155.0	<500.0	6.6	27.2
	8/14/2002	0.080	6.30	4.24	26.0	4.0	1.51	0.45	<20.0	902.0	717.0	<500.0	8.8	56.8
	Average	***6.836***	***4.98***	***7.93***	***31.0***	***3.2***	***3.76***	***0.82***	***20.0***	***435.5***	***254.3***	***500.0***	***6.7***	***25.8***
FELL3.0	4/23/2001	7.381	4.15	5.47	33.0	<3.0	1.65	0.49	<20.0	<300.0	185.0	<500.0	6.0	4.8
	6/4/2001	1.462	5.80	8.80	26.0	<3.0	1.86	0.53	<20.0	<300.0	163.0	<500.0	7.4	2.6
	10/1/2001	3.372	5.30	8.15	31.0	<3.0	1.75	0.51	<20.0	<300.0	206.0	<500.0	6.8	28.2
	3/6/2002	2.748	4.80	11.33	27.0	<3.0	1.55	0.48	<20.0	<300.0	119.0	<500.0	6.6	17.4
	5/28/2002	3.229	4.70	10.65	29.0	<3.0	1.56	0.49	<20.0	<300.0	143.0	<500.0	7.0	22.0
	8/13/2002	0.033	6.00	5.65	20.0	<3.0	1.51	0.43	<20.0	<300.0	98.0	<500.0	8.4	33.4
	Average	***3.038***	***5.13***	***8.34***	***27.7***	***3.0***	***1.65***	***0.49***	***20.0***	***300.0***	***152.3***	***500.0***	***7.0***	***18.1***
FALL1.0	4/30/2001	19.047	3.75	7.03	290.0	<3.0	13.00	12.50	80.0	465.0	4120.0	3300.0	4.0	32.0
	6/18/2001	4.436	3.90	6.87	459.0	4.0	25.10	21.60	164.4	<300.0	7610.0	4760.0	2.2	48.2
	10/10/2001	6.388	3.40	8.28	393.0	<3.0	18.70	17.10	112.5	575.0	6130.0	4330.0	3.2	63.2
	3/18/2002	9.884	4.00	10.19	257.0	<3.0	11.60	10.30	63.0	451.0	3520.0	2480.0	3.2	69.2
	5/30/2002	13.966	3.75	8.26	309.0	<3.0	14.00	13.20	116.2	427.0	4440.0	3100.0	4.0	70.6
	8/14/2002	0.899	3.90	5.91	604.0	<3.0	34.50	31.00	235.2	<300.0	11100.0	8200.0	0.0	108.2
	Average	***9.103***	***3.78***	***7.76***	***385.3***	***3.2***	***19.48***	***17.62***	***128.6***	***419.7***	***6153.3***	***4361.7***	***2.8***	***65.2***
FALL2.0	4/24/2001	15.391	3.90	5.91	85.0	<3.0	3.85	2.27	26.0	375.0	997.0	742.0	6.0	10.6
	6/18/2001	2.000	4.00	6.40	194.0	<3.0	9.68	6.06	44.6	1130.0	2740.0	1270.0	2.4	24.0
	10/2/2001	5.184	3.75	7.38	125.0	<3.0	<0.10	0.10	<20.0	<300.0	<50.0	<500.0	4.4	41.6
	3/6/2002	8.005	4.20	10.38	100.0	<3.0	4.49	2.74	<20.0	527.0	1140.0	954.0	5.2	40.6
	5/28/2002	11.341	4.20	9.89	89.0	<3.0	4.17	2.38	20.6	348.0	972.0	667.0	7.6	50.6
	8/13/2002	0.728	4.70	5.34	299.0	<3.0	17.20	9.84	60.2	1490.0	5590.0	1820.0	0.0	35.0
	Average	***7.108***	***4.13***	***7.55***	***148.7***	***3.0***	***6.58***	***3.90***	***31.9***	***695.0***	***1914.8***	***992.2***	***4.3***	***33.7***
FALL2.5	6/13/2002	8.140	4.50	7.15	59.0	3.0	2.85	1.53	20.0	300.0	581.0	526.0	7.2	45.4
	8/21/2002	0.523	4.20	5.35	136.0	3.0	7.27	4.41	110.9	533.0	2340.0	500.0	5.6	57.4

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	Average	***4.332***	***4.35***	***6.25***	***97.5***	***3.0***	***5.06***	***2.97***	***65.5***	***416.5***	***1460.5***	***513.0***	***6.4***	***51.4***
FALL2.6	6/13/2002	5.860	4.60	6.98	60.0	<3.0	2.74	1.56	<20.0	<300.0	584.0	552.0	6.6	44.4
	8/21/2002	0.376	4.50	5.41	139.0	<3.0	8.07	4.74	26.9	531.0	2560.0	<500.0	5.6	59.0
	Average	***3.118***	***4.55***	***6.20***	***99.5***	***3.0***	***5.41***	***3.15***	***23.5***	***415.5***	***1572.0***	***526.0***	***6.1***	***51.7***
FALL3.0	4/23/2001	4.087	4.20	5.37	62.0	<3.0	3.21	1.88	<20.0	<300.0	596.0	<500.0	6.0	7.0
	6/4/2001	1.407	5.25	8.84	79.0	<3.0	4.30	2.78	22.9	<300.0	829.0	1040.0	7.8	7.4
	10/1/2001	1.376	4.30	8.24	71.0	<3.0	3.46	2.18	109.0	<300.0	783.0	965.0	7.2	33.8
	3/6/2002	3.212	4.50	10.98	58.0	<3.0	3.04	1.84	29.7	<300.0	478.0	755.0	6.8	15.6
	5/28/2002	3.012	4.50	10.55	61.0	<3.0	2.99	1.80	<20.0	<300.0	518.0	612.0	6.8	21.2
	8/13/2002	0.193	5.25	6.23	136.0	<3.0	6.29	4.89	24.3	<300.0	2000.0	2000.0	7.4	41.4
	Average	***2.215***	***4.67***	***8.37***	***77.8***	***3.0***	***3.88***	***2.56***	***37.7***	***300.0***	***867.3***	***978.7***	***7.0***	***21.1***
SOUT1.0	4/23/2001	16.531	6.90	5.37	36.0	<3.0	3.41	0.88	<20.0	<300.0	<50.0	<500.0	7.8	0.0
	6/4/2001	2.816	6.95	8.73	42.0	<3.0	3.55	0.90	<20.0	<300.0	<50.0	<500.0	12.0	0.0
	10/2/2001	5.658	6.80	7.70	38.0	<3.0	3.46	0.88	<20.0	<300.0	<50.0	<500.0	10.0	0.0
	3/6/2002	7.370	6.35	11.11	40.0	<3.0	3.16	0.83	<20.0	<300.0	<50.0	<500.0	9.2	0.0
	5/28/2002	4.459	6.65	10.29	35.0	<3.0	3.20	0.85	<20.0	<300.0	<50.0	<500.0	10.2	1.6
	8/13/2002	0.266	7.00	5.81	49.0	<3.0	5.21	1.29	<20.0	<300.0	<50.0	<500.0	14.2	0.6
	Average	***6.183***	***6.78***	***8.17***	***40.0***	***3.0***	***3.67***	***0.94***	***20.0***	***300.0***	***50.0***	***500.0***	***10.6***	***0.4***
UNT1.0	4/24/2001	0.104	4.70	4.92	53.0	<3.0	4.00	1.25	<20.0	<300.0	187.0	<500.0	7.4	3.6
	6/5/2001	0.024	6.50	7.22	218.0	4.0	22.30	5.47	56.4	<300.0	257.0	<500.0	15.8	0.0
	10/2/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	3/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	5/29/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	8/14/2002	NMF	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.064***	***5.60***	***6.07***	***135.5***	***3.5***	***13.15***	***3.36***	***38.2***	***300.0***	***222.0***	***500.0***	***11.6***	***1.8***
UNT2.0	4/24/2001	0.099	3.20	4.02	291.0	<3.0	10.60	6.90	68.0	917.0	4640.0	2540.0	0.0	42.0
	6/19/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	10/2/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	3/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	5/29/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	8/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.099***	***3.20***	***4.02***	***291.0***	***3.0***	***10.60***	***6.90***	***68.0***	***917.0***	***4640.0***	***2540.0***	***0.0***	***42.0***
UNT3.0	4/24/2001	0.135	3.20	4.37	349.0	<3.0	13.10	10.20	78.0	836.0	5830.0	3950.0	0.0	46.0

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	6/19/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	10/2/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	3/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	5/29/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	8/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.135***	***3.20***	***4.37***	***349.0***	***3.0***	***13.10***	***10.20***	***78.0***	***836.0***	***5830.0***	***3950.0***	***0.0***	***46.0***
UNT4.0	4/24/2001	0.865	4.05	7.32	45.0	<3.0	1.68	1.06	38.0	<300.0	298.0	532.0	6.6	4.8
	6/5/2001	0.057	5.30	8.68	43.0	<3.0	2.14	1.19	<20.0	<300.0	195.0	<500.0	9.4	1.4
	10/4/2001	0.334	3.80	7.55	45.0	<3.0	1.74	1.02	37.6	<300.0	295.0	508.0	6.8	10.4
	3/6/2002	0.403	4.35	11.49	48.0	<3.0	1.64	1.15	31.6	<300.0	212.0	716.0	8.0	11.8
	5/29/2002	0.310	4.60	9.40	44.0	<3.0	1.75	1.02	<20.0	<300.0	245.0	510.0	5.2	11.2
	8/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.394***	***4.42***	***8.89***	***45.0***	***3.0***	***1.79***	***1.09***	***29.4***	***300.0***	***249.0***	***553.2***	***7.2***	***7.9***
UNT5.0	4/25/2001	1.315	3.15	7.10	429.0	4.0	14.50	17.00	156.0	612.0	6920.0	6990.0	0.0	58.0
	6/11/2001	0.083	4.00	7.23	447.0	<3.0	19.80	19.30	196.3	<300.0	7830.0	8410.0	4.6	74.4
	10/10/2001	0.439	2.80	8.06	788.0	<3.0	27.40	33.90	325.9	956.0	14000.0	16700.0	0.0	168.0
	3/13/2002	0.776	3.60	10.90	484.0	<3.0	16.30	18.70	133.8	682.0	7570.0	8000.0	0.0	137.2
	6/11/2002	1.276	3.30	5.97	589.0	<3.0	19.20	24.30	154.1	1140.0	8940.0	11000.0	0.0	101.2
	8/19/2002	NMF	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.778***	***3.37***	***7.85***	***547.4***	***3.2***	***19.44***	***22.64***	***193.2***	***738.0***	***9052.0***	***10220.0***	***0.9***	***107.8***
UNT6.0	4/25/2001	3.628	7.20	7.38	32.0	<3.0	3.05	0.74	<20.0	<300.0	<50.0	<500.0	8.6	0.0
	6/11/2001	0.382	7.55	7.63	45.0	<3.0	5.07	0.95	<20.0	<300.0	<50.0	<500.0	19.0	0.0
	10/10/2001	0.994	7.20	7.81	37.0	4.0	4.04	0.81	32.9	<300.0	<50.0	<500.0	15.4	3.0
	3/13/2002	1.672	6.40	10.63	34.0	<3.0	3.64	0.77	<20.0	<300.0	50.0	<500.0	12.8	7.2
	5/30/2002	1.437	6.70	7.59	48.0	<3.0	3.43	0.70	42.3	<300.0	<50.0	<500.0	12.2	3.4
	8/15/2002	0.224	6.10	5.86	80.0	<3.0	11.10	1.77	<20.0	<300.0	<50.0	<500.0	32.0	0.0
	Average	***1.390***	***6.86***	***7.82***	***46.0***	***3.2***	***5.06***	***0.96***	***25.9***	***300.0***	***50.0***	***500.0***	***16.7***	***2.3***
UNT7.0	4/25/2001	7.282	6.35	7.05	224.0	<3.0	18.80	9.56	76.2	435.0	499.0	720.0	11.0	0.0
	6/11/2001	2.015	7.10	8.01	246.0	<3.0	22.60	9.91	99.7	784.0	474.0	<500.0	19.2	0.0
	10/9/2001	1.976	7.00	8.09	264.0	6.0	24.30	10.70	76.4	477.0	491.0	<500.0	16.6	32.2
	3/13/2002	3.413	6.65	9.19	247.0	4.0	21.70	9.82	89.8	574.0	512.0	522.0	15.2	45.6
	6/13/2002	8.325	6.95	7.91	229.0	<3.0	20.30	9.04	78.8	648.0	532.0	522.0	15.8	41.6
	8/15/2002	1.627	6.25	7.17	249.0	<3.0	27.20	11.00	108.8	683.0	625.0	<500.0	20.0	28.0
	Average	***4.106***	***6.72***	***7.90***	***243.2***	***3.7***	***22.48***	***10.01***	***88.3***	***600.2***	***522.2***	***544.0***	***16.3***	***24.6***

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
UNT8.0	4/30/2001	0.801	5.75	6.99	58.0	<3.0	9.58	4.04	25.3	<300.0	93.0	<500.0	8.2	2.2
	6/5/2001	0.035	6.75	8.38	68.0	<3.0	5.64	2.22	<20.0	<300.0	<50.0	<500.0	10.2	0.0
	10/11/2001	0.224	6.55	6.96	67.0	<3.0	5.01	1.90	<20.0	<300.0	<50.0	<500.0	9.4	12.0
	3/13/2002	0.301	5.70	10.65	70.0	<3.0	5.11	2.12	35.1	<300.0	<50.0	<500.0	7.2	12.4
	5/29/2002	0.209	6.25	9.56	67.0	<3.0	4.43	1.80	34.4	<300.0	<50.0	<500.0	6.4	6.0
	8/19/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.314***	***6.20***	***8.51***	***66.0***	***3.0***	***5.95***	***2.42***	***27.0***	***300.0***	***58.6***	***500.0***	***8.3***	***6.5***
CORY1.0	4/24/2001	28.703	8.85	5.79	137.0	4.0	12.60	2.31	20.9	<300.0	<50.0	<500.0	38.0	0.0
	6/18/2001	3.021	8.20	6.12	272.0	<3.0	32.20	5.19	57.7	<300.0	<50.0	<500.0	88.0	0.0
	10/17/2001	4.154	7.85	7.96	242.0	<3.0	27.40	4.54	29.0	<300.0	<50.0	<500.0	82.0	0.0
	3/12/2002	8.134	7.55	9.51	176.0	<3.0	20.40	3.33	<20.0	<300.0	<50.0	<500.0	50.0	0.0
	6/12/2002	13.702	7.45	7.40	153.0	<3.0	17.00	2.67	<20.0	<300.0	<50.0	<500.0	50.0	0.0
	8/20/2002	0.039	8.20	6.52	398.0	8.0	47.10	8.34	<20.0	<300.0	50.0	<500.0	128.0	0.0
	Average	***9.626***	***8.02***	***7.22***	***229.7***	***4.0***	***26.12***	***4.40***	***27.9***	***300.0***	***50.0***	***500.0***	***72.7***	***0.0***
LAMB1.0	4/30/2001	4.704	7.20	6.33	151.0	<3.0	*	*	40.0	*	*	*	48.0	0.0
	6/12/2001	1.038	7.10	6.27	204.0	12.0	24.30	3.80	*	<300.0	<50.0	<500.0	72.0	0.0
	10/18/2001	2.427	7.40	6.78	270.0	4.0	28.20	4.61	52.8	<300.0	<50.0	<500.0	82.0	0.0
	3/12/2002	2.675	7.60	9.72	178.0	12.0	24.20	3.60	<20.0	<300.0	<50.0	<500.0	62.0	0.0
	6/12/2002	5.330	7.50	7.79	149.0	<3.0	16.40	2.43	32.3	<300.0	<50.0	<500.0	54.0	0.0
	8/19/2002	0.301	8.00	7.14	241.0	<3.0	31.70	4.15	33.1	<300.0	<50.0	<500.0	88.0	0.0
	Average	***2.746***	***7.47***	***7.34***	***198.8***	***6.2***	***24.96***	***3.72***	***35.6***	***300.0***	***50.0***	***500.0***	***67.7***	***0.0***
CANO1.0	4/30/2001	6.535	9.20	6.61	154.0	<3.0	*	*	48.7	*	*	*	48.0	0.0
	6/12/2001	1.212	7.80	6.73	303.0	<3.0	32.10	6.15	50.7	<300.0	<50.0	<500.0	108.0	0.0
	10/11/2001	2.018	9.20	8.47	239.0	<3.0	26.40	4.97	46.2	<300.0	<50.0	<500.0	82.0	0.0
	3/12/2002	4.824	7.40	9.49	172.0	<3.0	18.90	3.70	<20.0	<300.0	<50.0	<500.0	50.0	0.0
	6/12/2002	8.157	7.50	6.57	191.0	4.0	19.40	3.55	<20.0	334.0	<50.0	<500.0	64.0	0.0
	8/19/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***4.549***	***8.22***	***7.57***	***211.8***	***3.2***	***24.20***	***4.59***	***37.1***	***308.5***	***50.0***	***500.0***	***70.4***	***0.0***
ELLN1.0	4/23/2001	1.802	9.20	5.03	346.0	8.0	25.90	4.60	43.0	763.0	<50.0	649.0	68.0	0.0
	6/4/2001	0.048	7.80	7.48	1048.0	6.0	71.00	12.30	81.7	321.0	<50.0	<500.0	156.0	0.0
	10/10/2001	0.331	8.05	8.26	846.0	4.0	58.20	10.60	68.7	<300.0	<50.0	<500.0	166.0	0.0
	3/12/2002	0.578	8.90	9.52	425.0	4.0	36.90	7.49	30.2	<300.0	<50.0	<500.0	84.0	0.0
	5/29/2002	0.292	8.30	8.06	422.0	<3.0	36.90	6.22	156.3	305.0	<50.0	<500.0	114.0	0.0
	8/20/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.610***	***8.45***	***7.67***	***617.4***	***5.0***	***45.78***	***8.24***	***76.0***	***397.8***	***50.0***	***529.8***	***117.6***	***0.0***

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
MARV1.0	4/30/2001	4.455	6.95	6.02	100.0	20.0	11.30	1.85	30.2	591.0	64.0	607.0	34.0	0.0
	6/11/2001	0.216	7.50	6.84	177.0	<3.0	19.70	2.98	29.3	<300.0	<50.0	<500.0	68.0	0.0
	10/11/2001	0.674	7.65	7.44	164.0	<3.0	18.40	2.79	33.0	<300.0	<50.0	<500.0	62.0	0.0
	3/12/2002	3.685	7.10	9.76	121.0	<3.0	11.60	1.75	45.0	<300.0	<50.0	<500.0	34.0	0.0
	6/12/2002	2.669	7.50	6.74	108.0	4.0	12.20	1.80	<20.0	367.0	<50.0	<500.0	44.0	0.0
	8/21/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***2.340***	***7.34***	***7.36***	***134.0***	***6.6***	***14.64***	***2.23***	***31.5***	***371.6***	***52.8***	***521.4***	***48.4***	***0.0***
JOHN1.0	4/25/2001	39.071	6.30	6.96	172.0	4.0	11.60	4.90	34.6	<300.0	440.0	<500.0	9.0	0.0
	6/11/2001	5.396	7.05	6.33	244.0	<3.0	20.00	6.52	75.4	<300.0	192.0	<500.0	22.0	0.0
	10/11/2001	8.423	6.80	6.65	246.0	<3.0	19.00	7.31	20.9	<300.0	823.0	566.0	16.6	37.4
	3/13/2002	19.676	6.50	10.01	190.0	<3.0	14.50	5.58	49.6	<300.0	512.0	<500.0	12.8	41.2
	6/11/2002	44.940	6.70	5.88	176.0	4.0	13.30	5.50	65.8	352.0	570.0	610.0	11.4	36.4
	8/19/2002	3.732	5.80	5.40	280.0	<3.0	26.60	8.25	47.7	<300.0	153.0	<500.0	28.0	0.0
	Average	**20.206**	**6.53**	**6.87**	**218.0**	**3.3**	**17.50**	**6.34**	**49.0**	**308.7**	**448.3**	**529.3**	**16.6**	**19.2**
JOHN2.0	4/25/2001	18.313	6.15	6.98	185.0	<3.0	14.40	7.18	53.9	<300.0	457.0	<500.0	7.8	1.0
	6/11/2001	3.061	6.90	7.85	218.0	<3.0	18.80	8.16	76.2	<300.0	291.0	<500.0	16.0	0.0
	10/9/2001	6.491	7.10	7.74	223.0	8.0	17.80	7.75	69.4	<300.0	367.0	<500.0	13.4	24.8
	3/13/2002	9.611	6.70	10.03	203.0	4.0	16.30	7.09	52.7	319.0	371.0	<500.0	14.0	41.4
	6/11/2002	21.360	7.00	5.83	184.0	<3.0	16.20	7.12	49.3	632.0	453.0	<500.0	12.0	40.8
	8/19/2002	3.571	5.80	6.81	253.0	<3.0	25.00	9.85	70.7	<300.0	324.0	<500.0	19.8	14.4
	Average	***10.401***	***6.61***	***7.54***	***211.0***	***4.0***	***18.08***	***7.86***	***62.0***	***358.5***	***377.2***	***500.0***	***13.8***	***20.4***
JOHN3.0	4/25/2001	6.086	6.70	6.31	244.0	<3.0	18.80	9.06	72.4	<300.0	566.0	<500.0	7.4	1.6
	6/11/2001	0.248	7.05	6.92	243.0	16.0	17.00	5.50	50.8	351.0	224.0	<500.0	20.0	5.0
	10/9/2001	2.932	7.15	7.06	248.0	6.0	20.90	9.27	62.1	<300.0	501.0	<500.0	13.2	20.0
	3/13/2002	2.633	6.70	9.64	259.0	4.0	21.10	8.36	85.8	507.0	325.0	<500.0	16.2	0.0
	6/11/2002	6.360	6.70	5.52	195.0	6.0	17.70	7.01	45.4	760.0	357.0	<500.0	15.2	32.0
	8/15/2002	0.840	6.30	5.56	321.0	<3.0	37.00	12.30	81.8	2220.0	850.0	559.0	26.0	21.6
	Average	***3.183***	***6.77***	***6.84***	***251.7***	***6.3***	***22.08***	***8.58***	***66.4***	***739.7***	***470.5***	***509.8***	***16.3***	***13.4***
BELL1.0	4/25/2001	11.774	7.30	7.59	107.0	<3.0	7.60	1.75	<20.0	<300.0	<50.0	<500.0	12.8	0.0
	6/11/2001	1.305	7.50	7.21	147.0	<3.0	12.00	2.36	22.3	<300.0	<50.0	<500.0	26.0	0.0
	10/9/2001	2.617	7.35	7.97	124.0	<3.0	10.10	2.04	*	<300.0	<50.0	<500.0	22.0	0.0
	3/13/2002	4.958	6.60	10.82	98.0	<3.0	7.45	1.55	<20.0	<300.0	<50.0	<500.0	16.2	4.0
	6/11/2002	10.230	7.10	5.95	95.0	<3.0	7.50	1.60	<20.0	<300.0	74.0	<500.0	15.8	0.0
	8/15/2002	0.488	*	5.68	162.0	<3.0	14.90	2.61	<20.0	<300.0	<50.0	<500.0	36.0	0.0

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	Average	***5.229***	***7.17***	***7.54***	***122.2***	***3.0***	***9.93***	***1.99***	***20.5***	***300.0***	***54.0***	***500.0***	***21.5***	***0.7***
COAL1.0	4/25/2001	8.337	2.50	7.12	1315.0	<3.0	40.40	28.50	394.0	27200.0	4970.0	18600.0	0.0	278.0
	6/5/2001	2.828	2.55	8.95	1613.0	<3.0	76.60	50.00	>638.6	37200.0	9160.0	31600.0	0.0	416.0
	10/4/2001	3.480	2.10	7.78	1752.0	<3.0	67.00	42.80	357.2	35600.0	8130.0	33100.0	0.0	457.0
	3/13/2002	4.700	2.80	9.33	1465.0	<3.0	55.50	34.90	266.2	30700.0	6630.0	22800.0	0.0	381.8
	5/30/2002	5.948	2.60	12.90	1399.0	54.0	52.30	31.60	276.3	29800.0	5860.0	18700.0	0.0	313.8
	8/14/2002	2.704	2.65	7.43	1866.0	8.0	94.70	54.60	770.8	45400.0	10900.0	39500.0	0.0	507.2
	Average	***4.666***	***2.53***	***8.92***	***1568.3***	***12.3***	***64.42***	***40.40***	***450.5***	***34316.7***	***7608.3***	***27383.3***	***0.0***	***392.3***
COAL2.0	4/25/2001	0.923	4.90	6.48	67.0	<3.0	5.02	1.47	<20.0	<300.0	532.0	<500.0	6.2	3.0
	6/5/2001	0.017	6.25	6.44	77.0	<3.0	6.35	2.09	41.5	<300.0	389.0	<500.0	11.4	0.0
	10/4/2001	0.090	6.40	6.15	91.0	<3.0	7.11	2.47	35.6	<300.0	421.0	<500.0	10.8	30.2
	3/13/2002	0.254	5.75	10.11	63.0	<3.0	5.02	1.49	31.1	<300.0	399.0	<500.0	8.0	25.6
	5/30/2002	0.126	6.30	7.27	72.0	<3.0	5.29	2.01	<20.0	544.0	376.0	<500.0	11.4	37.4
	8/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.282***	***5.92***	***7.29***	***74.0***	***3.0***	***5.76***	***1.91***	***29.6***	***348.8***	***423.4***	***500.0***	***9.6***	***19.2***
BEAR1.0	4/25/2001	1.483	2.65	6.99	788.0	<3.0	25.20	16.70	220.0	5330.0	3550.0	8870.0	0.0	120.0
	6/5/2001	0.107	2.95	8.78	1190.0	<3.0	57.00	40.80	428.5	8310.0	8590.0	19100.0	0.0	226.0
	10/4/2001	0.312	2.30	7.51	1222.0	<3.0	49.70	33.80	320.4	7730.0	7640.0	18900.0	0.0	227.8
	3/13/2002	0.534	2.85	9.68	1034.0	<3.0	35.00	23.30	214.3	6350.0	5050.0	11800.0	0.0	206.8
	5/29/2002	1.303	2.80	10.07	802.0	4.0	26.70	17.00	205.1	4490.0	3500.0	8630.0	0.0	125.4
	8/19/2002	0.129	2.90	6.29	1376.0	<3.0	72.40	49.40	476.9	7030.0	11400.0	26500.0	0.0	265.8
	Average	***0.645***	***2.74***	***8.22***	***1068.7***	***3.2***	***44.33***	***30.17***	***310.9***	***6540.0***	***6621.7***	***15633.3***	***0.0***	***195.3***
HILL1.0	5/1/2001	11.615	6.85	6.34	151.0	<3.0	*	*	29.4	*	*	*	50.0	0.0
	6/19/2001	3.225	7.35	5.41	229.0	<3.0	30.50	3.98	30.5	<300.0	<50.0	<500.0	80.0	0.0
	10/17/2001	5.694	7.25	6.35	253.0	<3.0	28.90	4.08	50.1	<300.0	<50.0	<500.0	84.0	0.0
	3/13/2002	6.912	7.05	10.26	181.0	<3.0	22.30	3.11	42.0	<300.0	<50.0	<500.0	58.0	0.0
	6/12/2002	14.383	7.60	7.02	151.0	<3.0	16.40	2.25	<20.0	<300.0	<50.0	<500.0	54.0	0.0
	8/20/2002	2.433	7.20	5.08	201.0	<3.0	27.10	3.32	<20.0	<300.0	<50.0	<500.0	80.0	0.0
	Average	***7.377***	***7.22***	***6.74***	***194.3***	***3.0***	***25.04***	***3.35***	***32.0***	***300.0***	***50.0***	***500.0***	***67.7***	***0.0***
CROO1.0	5/1/2001	49.624	6.90	5.59	165.0	6.0	*	*	26.8	*	*	*	52.0	0.0
	6/19/2001	9.953	6.75	4.95	254.0	8.0	30.60	4.06	29.0	615.0	117.0	<500.0	80.0	0.0
	10/17/2001	22.408	7.50	6.08	315.0	12.0	31.10	4.48	42.4	<300.0	<50.0	<500.0	100.0	0.0
	3/13/2002	42.135	6.95	10.96	175.0	<3.0	20.30	2.90	22.8	<300.0	<50.0	<500.0	56.0	0.0
	6/12/2002	75.730	7.30	6.61	164.0	4.0	17.90	2.46	<20.0	<300.0	<50.0	<500.0	58.0	0.0
	8/20/2002	3.653	8.60	6.74	326.0	32.0	27.40	4.02	60.8	526.0	113.0	<500.0	94.0	0.0

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	Average	***33.917***	***7.33***	***6.82***	***233.2***	***10.8***	***25.46***	***3.58***	***33.6***	***408.2***	***76.0***	***500.0***	***73.3***	***0.0***
NORR1.0	5/1/2001	8.266	6.65	6.65	68.0	<3.0	*	*	<20.0	*	*	*	20.0	0.0
	6/19/2001	1.030	7.50	5.62	100.0	<3.0	11.80	1.88	23.9	<300.0	<50.0	<500.0	32.0	0.0
	10/17/2001	1.963	7.10	6.79	145.0	4.0	14.90	2.53	23.0	<300.0	<50.0	<500.0	42.0	0.0
	3/13/2002	6.844	6.70	9.99	76.0	<3.0	8.45	1.47	<20.0	<300.0	<50.0	<500.0	24.0	0.0
	6/12/2002	13.947	7.30	8.06	72.0	<3.0	7.25	1.26	<20.0	<300.0	<50.0	<500.0	26.0	0.0
	8/20/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***6.410***	***7.05***	***7.42***	***92.2***	***3.2***	***10.60***	***1.79***	***21.4***	***300.0***	***50.0***	***500.0***	***28.8***	***0.0***
CATL1.0	5/1/2001	10.032	8.10	7.21	186.0	<3.0	*	*	23.0	*	*	*	58.0	0.0
	6/19/2001	D	*	*	*	*	*	*	*	*	*	*	*	*
	10/17/2001	3.317	7.50	6.34	341.0	<3.0	32.70	4.56	39.8	<300.0	<50.0	<500.0	90.0	0.0
	3/13/2002	5.863	7.15	10.48	215.0	<3.0	22.30	3.26	23.0	<300.0	<50.0	<500.0	62.0	0.0
	6/12/2002	8.364	7.50	7.81	187.0	<3.0	18.50	2.75	<20.0	<300.0	<50.0	<500.0	66.0	0.0
	8/20/2002	0.113	7.00	5.14	275.0	<3.0	29.40	3.97	48.0	<300.0	<50.0	<500.0	92.0	0.0
	Average	***5.538***	***7.45***	***7.40***	***240.8***	***3.0***	***25.73***	***3.64***	***30.8***	***300.0***	***50.0***	***500.0***	***73.6***	***0.0***
RATH1.0	4/23/2001	9.556	6.80	5.52	37.0	<3.0	4.18	0.82	<20.0	<300.0	<50.0	<500.0	9.6	0.0
	6/4/2001	1.407	7.00	8.64	45.0	<3.0	4.44	0.84	23.1	<300.0	<50.0	<500.0	14.8	0.0
	10/1/2001	2.433	6.90	8.14	43.0	<3.0	4.88	0.93	22.8	<300.0	<50.0	<500.0	14.2	7.6
	3/14/2002	2.513	6.20	10.29	42.0	<3.0	4.47	0.86	<20.0	<300.0	<50.0	<500.0	11.8	5.6
	5/28/2002	2.127	6.80	9.64	40.0	<3.0	4.47	0.86	20.7	<300.0	<50.0	<500.0	13.8	0.0
	8/13/2002	NMF	7.30	6.33	52.0	<3.0	6.54	1.17	36.6	<300.0	<50.0	<500.0	19.8	0.0
	Average	***3.607***	***6.83***	***8.09***	***43.2***	***3.0***	***4.83***	***0.91***	***23.9***	***300.0***	***50.0***	***500.0***	***14.0***	***2.2***
MORR1.0	4/24/2001	19.182	3.00	6.17	761.0	<3.0	35.80	30.90	*	2600.0	10000.0	10000.0	0.0	96.0
	6/5/2001	3.722	3.15	8.99	1250.0	<3.0	74.10	>50.00	523.0	4700.0	20300.0	17300.0	0.0	196.0
	10/4/2001	4.458	2.70	7.59	1302.0	<3.0	67.90	>50.00	520.0	5040.0	19200.0	18900.0	0.0	204.0
	3/14/2002	4.727	3.10	9.57	1013.0	<3.0	52.90	43.50	306.0	4040.0	14400.0	12000.0	0.0	146.6
	5/29/2002	8.878	3.00	9.75	1095.0	<3.0	55.40	49.30	470.9	4000.0	15300.0	15200.0	0.0	155.2
	8/14/2002	2.474	2.90	6.71	1360.0	10.0	83.90	64.80	731.7	4750.0	22500.0	19900.0	0.0	195.6
	Average	***7.240***	***2.98***	***8.13***	***1130.2***	***4.2***	***61.67***	***48.08***	***510.3***	***4188.3***	***16950.0***	***15550.0***	***0.0***	***165.6***
MORR2.0	4/24/2001	14.220	3.00	6.02	780.0	<3.0	36.20	31.10	314.0	2860.0	10100.0	9990.0	0.0	98.0
	6/5/2001	2.829	3.20	8.93	1298.0	<3.0	77.80	>50.00	663.2	6790.0	21900.0	18600.0	0.0	196.0
	10/4/2001	3.434	2.60	7.58	1316.0	<3.0	68.30	>50.00	568.0	5830.0	19800.0	19100.0	0.0	216.6
	3/14/2002	3.657	3.10	9.26	1043.0	<3.0	54.10	45.40	*	4550.0	15100.0	12600.0	0.0	160.4
	5/29/2002	8.098	2.95	9.85	1124.0	<3.0	54.10	48.90	372.9	4240.0	15300.0	15100.0	0.0	164.8

Monitoring Station	Date	Flow ft^3/s	Field pH	Field DO mg/l	Field Cond. µΩ	Lab TSS mg/l	Lab Total Ca mg/l	Lab Total Mg mg/l	Lab Total SO_4 mg/l	Lab Total Fe µg/l	Lab Total Mn µg/l	Lab Total Al µg/l	Lab Alk mg/l	Lab Hot Acid mg/l
	8/14/2002	2.083	4.10	7.35	1398.0	20.0	80.70	65.50	707.1	6140.0	22500.0	19700.0	0.0	203.2
	Average	***5.720***	***3.16***	***8.17***	***1159.8***	***5.8***	***61.87***	***48.48***	***525.0***	***5068.3***	***17450.0***	***15848.3***	***0.0***	***173.2***
MORR3.0	4/24/2001	5.034	4.25	5.02	43.0	<3.0	2.34	0.95	22.0	<300.0	229.0	<500.0	6.8	3.4
	6/5/2001	1.102	5.30	7.20	54.0	<3.0	3.18	1.39	<20.0	<300.0	284.0	<500.0	8.8	3.0
	10/2/2001	1.627	4.80	7.13	47.0	<3.0	2.71	1.04	<20.0	<300.0	261.0	<500.0	6.2	16.6
	3/14/2002	1.738	4.60	10.16	45.0	<3.0	2.81	1.14	<20.0	<300.0	161.0	<500.0	7.2	13.2
	5/29/2002	1.717	4.60	9.08	50.0	<3.0	2.58	1.18	<20.0	<300.0	235.0	<500.0	6.0	18.0
	8/14/2002	D	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***2.244***	***4.71***	***7.72***	***47.8***	***3.0***	***2.72***	***1.14***	***20.4***	***300.0***	***234.0***	***500.0***	***7.0***	***10.8***
MILL1.0	4/24/2001	122.100	7.65	6.93	120.0	4.0	11.70	2.14	23.7	<300.0	<50.0	<500.0	36.0	0.0
	6/18/2001	13.600	8.20	6.06	188.0	3.0	23.70	3.57	31.2	<300.0	<50.0	<500.0	66.0	0.0
	10/17/2001	17.070	7.30	6.83	214.0	12.0	25.20	3.90	31.2	<300.0	<50.0	<500.0	80.0	0.0
	3/19/2002	52.868	7.20	9.75	168.0	<3.0	18.30	3.02	55.2	<300.0	<50.0	<500.0	54.0	0.0
	6/12/2002	63.810	7.30	7.02	163.0	<3.0	16.60	2.48	<20.0	<300.0	<50.0	<500.0	54.0	0.0
	8/20/2002	2.028	7.50	5.91	237.0	<3.0	33.40	4.58	24.3	<300.0	<50.0	<500.0	92.0	0.0
	Average	***45.246***	***7.53***	***7.08***	***181.7***	***4.7***	***21.48***	***3.28***	***30.9***	***300.0***	***50.0***	***500.0***	***63.7***	***0.0***
ELKR1.0	4/23/2001	28.477	9.05	5.07	155.0	6.0	14.90	2.44	25.0	417.0	<50.0	<500.0	38.0	0.0
	6/12/2001	2.226	8.60	6.80	259.0	<3.0	24.70	3.90	33.4	<300.0	<50.0	<500.0	74.0	0.0
	10/18/2001	9.566	7.95	7.46	364.0	<3.0	32.00	5.13	33.6	<300.0	<50.0	<500.0	86.0	0.0
	3/19/2002	15.055	7.15	10.32	218.0	6.0	21.00	3.39	<20.0	<300.0	<50.0	<500.0	58.0	0.0
	6/13/2002	10.918	7.40	6.96	184.0	<3.0	19.20	3.07	<20.0	<300.0	<50.0	<500.0	64.0	0.0
	8/19/2002	0.110	8.50	6.25	244.0	<3.0	28.10	4.02	63.6	<300.0	<50.0	<500.0	88.0	0.0
	Average	***11.059***	***8.11***	***7.14***	***237.3***	***4.0***	***23.32***	***3.66***	***32.6***	***319.5***	***50.0***	***500.0***	***68.0***	***0.0***

Table B2. Tioga Discharge Data

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
DFB099	6/18/2001	0.469	3.4	7.63	1166.0	12.0	51.4	>50.0	*	462.2	1660.0	*	22700.0	15800.0	0.0	168.2
	11/7/2001	0.670	2.6	6.75	746.0	6.0	48.7	>50.0	*	479.6	1420.0	*	20300.0	14700.0	0.0	196.8
	3/18/2002	1.496	3.3	8.35	1059.0	4.0	44.4	60.1	*	351.6	1400.0	*	18800.0	13500.0	0.0	177.8
	4/8/2002	2.624	3.0	9.70	1102.0	<2.0	52.5	69.5	418.0	433.0	1600.0	360.0	23000.0	17800.0	0.0	130.8
	5/23/2002	5.477	2.6	8.82	1019.0	<2.0	41.4	56.8	338.0	425.0	1230.0	470.0	18500.0	14300.0	0.0	172.8
	5/29/2002	2.991	3.2	9.62	1027.0	<3.0	40.3	55.3	*	441.6	1250.0	*	17000.0	13200.0	0.0	137.8
	6/19/2002	2.240	3.9	8.70	1070.0	12.0	40.9	58.9	345.0	443.0	1380.0	240.0	18100.0	14300.0	0.0	190.2
	7/18/2002	0.709	3.1	7.40	1257.0	4.0	68.2	93.6	556.0	587.0	1890.0	230.0	31100.0	22700.0	0.0	185.6
	8/7/2002	0.636	3.0	6.10	1391.0	10.0	64.1	67.5	438.0	654.0	2170.0	390.0	31100.0	19900.0	0.0	218.2
	8/21/2002	0.544	3.3	7.02	1353.0	4.0	64.5	84.8	*	904.0	2170.0	*	29500.0	22700.0	0.0	222.4
	9/17/2002	0.567	2.9	6.80	1476.0	2.0	72.2	106.0	617.0	603.0	2440.0	460.0	34300.0	23100.0	0.0	249.0
	Average	***1.675***	***3.1***	***7.90***	***1151.5***	***5.5***	***53.5***	***68.4***	***452.0***	***525.8***	***1691.8***	***358.3***	***24036.4***	***17454.5***	***0.0***	***186.3***
DFB001	4/8/2002	0.089	3.1	9.20	480.0	6.0	20.3	17.8	124.0	131.0	662.0	<20.0	6210.0	2340.0	0.0	77.4
	5/23/2002	0.099	2.5	6.24	462.0	<2.0	18.5	17.2	117.0	135.0	582.0	330.0	5760.0	1960.0	0.0	75.8
	6/20/2002	0.164	4.1	8.44	388.0	14.0	16.6	14.1	100.0	131.0	281.0	70.0	5220.0	1770.0	0.0	77.4
	7/18/2002	0.033	3.1	6.10	522.0	6.0	26.9	23.8	165.0	173.0	616.0	260.0	8470.0	2550.0	0.0	78.6
	8/7/2002	0.079	3.2	5.30	644.0	6.0	32.5	24.3	181.0	303.0	187.0	<20.0	10900.0	3160.0	0.0	80.6
	9/17/2002	0.030	3.0	5.90	861.0	2.0	46.6	42.6	292.0	314.0	553.0	170.0	15400.0	5650.0	0.0	151.0
	Average	***0.082***	***3.2***	***6.86***	***559.5***	***6.0***	***26.9***	***23.3***	***163.2***	***197.8***	***480.2***	***145.0***	***8660.0***	***2905.0***	***0.0***	***90.1***
DFB002	4/8/2002	0.452	3.3	7.10	776.0	92.0	50.7	32.1	259.0	313.0	58200.0	3430.0	16800.0	5250.0	0.0	109.2
	5/23/2002	0.147	2.7	5.20	606.0	4.0	36.3	23.0	186.0	236.0	13700.0	9550.0	12900.0	5040.0	0.0	97.0
	6/20/2002	0.108	3.9	4.20	677.0	18.0	45.9	28.3	231.0	299.0	23600.0	*	16000.0	5350.0	0.0	109.0
	7/18/2002	0.133	3.2	3.70	758.0	16.0	51.7	32.0	261.0	328.0	25600.0	19460.0	17000.0	6070.0	0.0	123.2
	8/7/2002	0.105	3.3	4.40	821.0	68.0	51.2	26.2	236.0	326.0	43600.0	13940.0	17600.0	5760.0	0.0	142.6
	9/17/2002	0.093	3.3	4.50	803.0	8.0	63.0	40.2	323.0	360.3	33400.0	26890.0	21400.0	7430.0	0.0	165.0

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	Average	***0.173***	***3.3***	***4.85***	***740.2***	***34.3***	***49.8***	***30.3***	***249.3***	***310.4***	***33016.7***	***14654.0***	***16950.0***	***5816.7***	***0.0***	***124.3***
DFB100	4/8/2002	0.033	6.2	7.20	593.0	32.0	51.0	25.3	232.0	231.0	39900.0	25930.0	8680.0	<200.0	26.0	63.0
	5/24/2002	PS	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	6/20/2002	PS	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	7/18/2002	0.023	7.0	4.00	595.0	10.0	51.9	26.0	237.0	259.0	34400.0	31330.0	8130.0	<200.0	36.0	54.6
	8/7/2002	0.028	6.3	4.40	592.0	14.0	45.5	18.9	192.0	237.0	30800.0	23920.0	7940.0	<200.0	34.0	76.0
	9/17/2002	0.030	6.3	4.00	586.0	18.0	51.8	26.0	237.0	267.4	40600.0	32500.0	8240.0	<200.0	30.0	83.6
	Average	***0.028***	***6.5***	***4.90***	***591.5***	***18.5***	***50.1***	***24.1***	***224.5***	***248.6***	***36425.0***	***28420.0***	***8247.5***	***200.0***	***31.5***	***69.3***
DFB003	5/23/2002	0.079	2.8	9.67	390.0	<2.0	19.6	14.7	110.0	151.0	423.0	80.0	10400.0	5940.0	0.0	119.0
	6/20/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	7/18/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	8/7/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	9/17/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.079***	***2.8***	***9.67***	***390.0***	***2.0***	***19.6***	***14.7***	***110.0***	***151.0***	***423.0***	***80.0***	***10400.0***	***5940.0***	***0.0***	***119.0***
DFB004	8/8/2002	0.240	3.0	5.50	683.0	6.0	30.7	19.8	158.0	278.0	742.0	80.0	18400.0	9670.0	0.0	151.6
	9/17/2002	0.036	3.2	6.50	736.0	<2.0	37.4	29.8	216.0	277.2	537.0	390.0	22600.0	12000.0	0.0	184.0
	Average	***0.138***	***3.1***	***6.00***	***709.5***	***4.0***	***34.1***	***24.8***	***187.0***	***277.6***	***639.5***	***235.0***	***20500.0***	***10835.0***	***0.0***	***167.8***
DMR003	5/9/2001	0.594	2.9	5.59	1587.0	10.0	90.5	>50.0	*	*	4050.0	*	24400.0	17700.0	0.0	206.0
	6/18/2001	0.233	3.2	7.54	1652.0	26.0	103.0	>50.0	*	771.4	3560.0	*	27600.0	18500.0	0.0	206.0
	11/7/2001	0.203	2.4	6.76	1803.0	8.0	113.0	>50.0	*	810.2	3950.0	*	30400.0	21700.0	0.0	277.4
	3/19/2002	0.411	3.1	8.50	1650.0	<3.0	94.0	94.7	*	626.8	3880.0	*	25600.0	17300.0	0.0	269.6
	4/9/2002	0.500	2.8	6.00	1694.0	2.0	107.0	116.0	745.0	732.0	6210.0	1160.0	30200.0	23000.0	0.0	206.8
	5/29/2002	0.870	2.9	9.94	1530.0	<3.0	85.4	88.4	*	668.5	3950.0	*	21500.0	16100.0	0.0	184.2
	6/19/2002	0.758	3.0	7.33	1607.0	10.0	93.3	95.4	626.0	642.0	5380.0	650.0	25400.0	19600.0	0.0	243.2

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	7/17/2002	0.279	3.1	7.20	1678.0	12.0	115.0	120.0	782.0	789.0	6580.0	500.0	32100.0	22300.0	0.0	223.6
	8/8/2002	0.204	2.8	6.60	1781.0	10.0	115.0	81.5	623.0	880.0	6640.0	840.0	33600.0	20000.0	0.0	246.2
	8/21/2002	*	3.2	6.87	1669.0	<3.0	104.0	95.1	*	617.4	3300.0	*	28100.0	19400.0	0.0	227.2
	9/17/2002	0.122	2.9	6.50	1876.0	<2.0	125.0	122.0	815.0	1021.3	7700.0	1380.0	36100.0	24100.0	0.0	262.2
	Average	***0.417***	***2.9***	***7.17***	***1684.3***	***8.1***	***104.1***	***87.6***	***718.2***	***755.9***	***5018.2***	***906.0***	***28636.4***	***19972.7***	***0.0***	***232.0***
DMR001	5/9/2001	1.000	2.7	4.53	1825.0	10.0	76.5	>50.0	*	960.0	9400.0	*	26400.0	35000.0	0.0	362.0
	6/18/2001	0.254	3.6	6.04	1931.0	10.0	92.6	>50.0	*	*	8930.0	*	31400.0	41100.0	0.0	387.0
	11/7/2001	0.390	2.1	6.00	1990.0	<3.0	96.2	>50.0	*	880.3	9590.0	*	32300.0	42400.0	0.0	443.2
	3/19/2002	1.500	2.9	7.56	1916.0	4.0	81.4	87.6	*	630.9	8340.0	*	27700.0	35300.0	0.0	441.4
	4/9/2002	0.804	2.7	6.90	1999.0	2.0	91.4	103.0	653.0	827.0	10900.0	1240.0	32800.0	43700.0	0.0	373.2
	5/29/2002	1.910	2.7	8.49	1805.0	8.0	69.6	78.3	*	480.6	8690.0	*	22500.0	31300.0	0.0	351.6
	6/20/2002	1.076	3.4	6.85	1822.0	12.0	81.3	85.5	556.0	699.0	10200.0	*	28300.0	37900.0	0.0	364.8
	7/17/2002	0.797	3.0	7.40	1941.0	16.0	103.0	111.0	715.0	814.0	10000.0	680.0	33600.0	44800.0	0.0	383.4
	8/8/2002	0.442	2.7	7.00	2080.0	12.0	98.2	73.2	547.0	858.0	9530.0	840.0	33000.0	39800.0	0.0	413.4
	8/21/2002	*	3.0	5.30	2020.0	6.0	98.6	93.8	*	335.7	9330.0	*	31900.0	45800.0	0.0	419.8
	9/17/2002	0.293	2.8	6.50	2210.0	<2.0	111.0	35.8	425.0	1130.7	10600.0	1120.0	28700.0	46800.0	0.0	439.6
	Average	***0.847***	***2.9***	***6.60***	***1958.1***	***7.7***	***90.9***	***74.4***	***579.2***	***761.6***	***9591.8***	***970.0***	***29872.7***	***40354.5***	***0.0***	***398.1***
DMR004	5/9/2001	3.950	3.0	2.68	1338.0	8.0	71.9	>50.0	*	724.0	7790.0	*	21900.0	19300.0	0.0	224.0
	6/18/2001	1.512	3.3	3.26	1294.0	6.0	81.1	>50.0	*	475.3	8760.0	*	23400.0	16500.0	0.0	210.8
	11/7/2001	1.407	2.4	2.49	1427.0	<3.0	90.0	>50.0	*	635.6	10100.0	*	25000.0	18800.0	0.0	266.2
	3/19/2002	2.199	3.1	3.88	1290.0	4.0	70.8	57.2	*	396.5	7340.0	*	20400.0	14500.0	0.0	248.6
	4/10/2002	3.633	2.8	7.60	1392.0	<2.0	91.1	79.4	555.0	607.0	7140.0	2300.0	28800.0	24400.0	0.0	206.4
	5/23/2002	5.422	2.0	5.12	1472.0	<2.0	80.1	74.5	507.0	610.0	7230.0	1540.0	26500.0	23600.0	0.0	262.4
	5/29/2002	4.114	2.9	6.91	1324.0	4.0	64.7	59.4	*	309.6	5520.0	*	19800.0	17900.0	0.0	203.2
	6/19/2002	3.418	3.8	5.36	1372.0	8.0	74.6	75.2	496.0	582.0	7090.0	1660.0	25400.0	23900.0	0.0	278.2
	7/17/2002	5.614	3.2	5.70	1340.0	6.0	93.8	81.8	572.0	599.0	8030.0	3230.0	30400.0	22100.0	0.0	207.6
	8/8/2002	1.318	2.8	6.00	1357.0	6.0	78.9	51.1	408.0	469.0	9460.0	1080.0	25300.0	15200.0	0.0	203.2

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	8/20/2002	1.013	3.2	2.77	1312.0	8.0	85.1	68.9	*	508.7	9660.0	*	24700.0	16900.0	0.0	265.4
	9/17/2002	1.108	3.0	5.00	1386.0	2.0	90.5	73.0	527.0	617.5	11100.0	4200.0	27400.0	16000.0	0.0	218.8
	Average	***2.892***	***3.0***	***4.73***	***1358.7***	***4.9***	***81.1***	***64.2***	***510.8***	***544.5***	***8268.3***	***2335.0***	***24916.7***	***19091.7***	***0.0***	***232.9***
DCC005	5/9/2001	5.350	2.6	5.16	1540.0	6.0	55.4	36.6	*	506.0	37500.0	*	6930.0	24000.0	0.0	374.0
	6/18/2001	3.615	2.9	7.13	1718.0	10.0	78.1	49.1	*	564.9	39700.0	*	9500.0	34000.0	0.0	446.6
	11/7/2001	2.866	2.0	6.12	1258.0	<3.0	79.5	49.7	*	571.8	42800.0	*	9660.0	37100.0	0.0	494.8
	3/19/2002	4.508	2.9	7.65	1556.0	4.0	57.9	36.7	*	*	37600.0	*	12000.0	29700.0	0.0	414.6
	4/10/2002	7.199	2.5	9.60	1619.0	<2.0	63.9	42.4	334.0	588.0	42500.0	4130.0	7430.0	28600.0	0.0	361.6
	5/24/2002	11.751	3.9	9.70	1524.0	<2.0	59.5	37.2	302.0	470.0	39600.0	4030.0	6920.0	25500.0	0.0	342.2
	5/30/2002	7.145	2.6	8.29	1452.0	<3.0	51.7	31.6	*	293.1	30800.0	*	5920.0	18800.0	0.0	327.0
	6/19/2002	8.782	3.4	9.69	1566.0	12.0	51.0	36.1	276.0	423.0	31500.0	3760.0	6900.0	23300.0	0.0	352.0
	7/18/2002	4.111	2.6	7.30	1770.0	12.0	85.8	57.5	451.0	616.0	44500.0	4040.0	10600.0	34600.0	0.0	456.0
	8/8/2002	3.565	2.6	7.50	1972.0	8.0	101.0	50.3	460.0	747.0	51600.0	1520.0	13200.0	40000.0	0.0	521.4
	8/20/2002	2.804	2.9	6.55	1946.0	10.0	107.0	66.3	*	128.4	53400.0	*	12400.0	44800.0	0.0	578.0
	9/18/2002	2.360	2.6	6.50	2120.0	<2.0	117.0	73.9	597.0	987.4	63600.0	3180.0	14300.0	51500.0	0.0	619.0
	Average	***5.338***	***2.8***	***7.60***	***1670.1***	***6.2***	***75.7***	***47.3***	***403.3***	***536.0***	***42925.0***	***3443.3***	***9646.7***	***32658.3***	***0.0***	***440.6***
DBC100	5/22/2002	*	2.8	9.70	768.0	*	*	*	*	*	*	*	*	*	*	*
	6/20/2002	1.161	3.6	9.42	799.0	18.0	28.8	19.6	153.0	220.0	6930.0	300.0	4260.0	9890.0	0.0	132.0
	7/18/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	8/8/2002	0.188	2.7	8.20	1514.0	12.0	74.3	43.5	365.0	617.0	16500.0	470.0	13200.0	25200.0	0.0	307.8
	9/18/2002	0.124	2.8	7.00	1773.0	4.0	92.2	69.1	515.0	788.5	20700.0	450.0	16500.0	34800.0	0.0	408.2
	Average	**0.491**	**3.0**	**8.58**	**1213.5**	**11.3**	**65.1**	**44.1**	**344.3**	**541.8**	**14710.0**	**406.7**	**11320.0**	**23296.7**	**0.0**	**282.7**
DBC101	4/10/2002	0.999	2.9	10.00	1109.0	<2.0	37.1	26.0	200.0	307.0	8020.0	570.0	5060.0	13900.0	0.0	174.2
	5/22/2002	2.177	2.7	9.80	843.0	<2.0	24.9	17.7	135.0	216.0	5900.0	520.0	3700.0	9280.0	0.0	140.4
	6/20/2002	1.760	3.8	10.29	867.0	16.0	29.5	20.2	157.0	234.0	6430.0	240.0	4270.0	10200.0	0.0	131.4
	7/18/2002	0.234	2.7	7.90	1228.0	18.0	54.8	40.0	302.0	471.0	10700.0	440.0	8880.0	19100.0	0.0	230.2

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	8/8/2002	0.281	2.7	8.20	1523.0	8.0	74.3	43.5	365.0	545.0	16000.0	450.0	13200.0	25300.0	0.0	305.2
	9/18/2002	0.188	2.8	7.20	1786.0	4.0	92.4	68.3	512.0	771.3	20600.0	450.0	16600.0	34800.0	0.0	405.6
	Average	***0.940***	***2.9***	***8.90***	***1226.0***	***8.3***	***52.2***	***36.0***	***278.5***	***424.1***	***11275.0***	***445.0***	***8618.3***	***18763.3***	***0.0***	***231.2***
DBC102	5/22/2002	*	2.7	9.30	916.0	*	*	*	*	*	*	*	*	*	*	*
	6/20/2002	0.599	3.6	9.08	972.0	14.0	32.2	21.3	168.0	219.0	6780.0	190.0	4700.0	11800.0	0.0	148.2
	7/18/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	8/8/2002	0.093	2.7	7.20	1405.0	8.0	64.0	37.6	315.0	501.0	6390.0	280.0	10700.0	22400.0	0.0	270.4
	9/18/2002	0.064	2.7	5.80	1655.0	<2.0	88.1	64.1	484.0	710.4	9380.0	400.0	14700.0	33800.0	0.0	347.6
	Average	***0.252***	***2.9***	***7.85***	***1237.0***	***8.0***	***61.4***	***41.0***	***322.3***	***476.8***	***7516.7***	***290.0***	***10033.3***	***22666.7***	***0.0***	***255.4***
DBC103	5/22/2002	*	2.8	9.21	828.0	*	*	*	*	*	*	*	*	*	*	*
	6/20/2002	0.300	3.6	9.12	908.0	14.0	28.7	19.4	152.0	219.0	4690.0	140.0	4230.0	9980.0	0.0	135.6
	7/18/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	8/8/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	9/18/2002	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Average	***0.300***	***3.2***	***9.17***	***868.0***	***14.0***	***28.7***	***19.4***	***152.0***	***219.0***	***4690.0***	***140.0***	***4230.0***	***9980.0***	***0.0***	***135.6***
DJC106	4/10/2002	0.099	2.4	8.90	1193.0	<2.0	19.9	13.3	105.0	256.0	17300.0	770.0	1900.0	8180.0	0.0	208.4
	5/22/2002	0.296	2.7	9.70	1001.0	26.0	14.7	11.0	82.0	192.0	9910.0	370.0	1480.0	6510.0	0.0	160.0
	6/19/2002	0.155	3.5	9.41	826.0	8.0	15.6	11.4	86.0	189.0	6280.0	440.0	2230.0	6490.0	0.0	145.0
	7/17/2002	0.027	2.9	7.40	1038.0	4.0	26.9	18.0	141.0	246.0	5620.0	410.0	3170.0	10300.0	0.0	182.0
	8/7/2002	0.077	2.6	8.00	1122.0	6.0	28.1	18.8	148.0	215.0	5570.0	210.0	3730.0	12100.0	0.0	195.2
	9/18/2002	0.027	2.6	8.50	1077.0	<2.0	37.2	24.3	193.0	266.6	5610.0	430.0	5720.0	17200.0	0.0	218.8
	Average	***0.114***	***2.8***	***8.65***	***1042.8***	***8.0***	***23.7***	***16.1***	***125.8***	***227.4***	***8381.7***	***438.3***	***3038.3***	***10130.0***	***0.0***	***184.9***
DJC900	4/10/2002	4.526	5.7	7.80	252.0	8.0	26.0	12.9	118.0	96.9	736.0	420.0	721.0	810.0	9.8	44.2
	5/23/2002	12.519	4.0	5.80	251.0	8.0	22.1	11.0	101.0	97.2	921.0	600.0	710.0	793.0	11.8	40.2

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	6/19/2002	8.457	6.3	9.18	235.0	10.0	20.7	10.5	95.0	88.4	746.0	500.0	652.0	683.0	10.0	46.4
	7/17/2002	2.763	5.9	6.30	258.0	2.0	26.4	12.1	116.0	90.5	910.0	480.0	695.0	594.0	16.0	38.4
	8/7/2002	2.165	6.4	7.50	271.0	8.0	25.7	11.0	110.0	90.7	878.0	70.0	609.0	575.0	15.6	40.6
	9/18/2002	1.122	6.4	8.70	271.0	<2.0	28.2	13.0	124.0	111.9	886.0	420.0	677.0	450.0	15.6	44.6
	Average	***5.259***	***5.8***	***7.55***	***256.3***	***6.3***	***24.9***	***11.8***	***110.7***	***95.9***	***846.2***	***415.0***	***677.3***	***650.8***	***13.1***	***42.4***
DJC902	5/22/2002	0.336	2.8	8.50	1305.0	4.0	34.5	53.8	308.0	491.0	8020.0	450.0	18600.0	21700.0	0.0	278.6
	6/19/2002	0.231	3.5	8.29	1412.0	48.0	37.6	58.8	336.0	460.0	9230.0	1680.0	20500.0	21400.0	0.0	281.8
	7/17/2002	0.169	2.5	8.40	1695.0	14.0	67.6	98.1	573.0	666.0	18200.0	2300.0	36600.0	27400.0	0.0	353.6
	8/7/2002	0.085	2.6	7.40	1728.0	12.0	60.4	79.6	479.0	576.0	21600.0	1150.0	34300.0	24200.0	0.0	353.4
	9/18/2002	0.069	2.6	8.00	1758.0	<2.0	63.1	83.7	503.0	722.8	63100.0	2520.0	34800.0	25300.0	0.0	392.2
	Average	***0.178***	***2.8***	***8.12***	***1579.6***	***16.0***	***52.6***	***74.8***	***439.8***	***583.2***	***24030.0***	***1620.0***	***28960.0***	***24000.0***		
DJC903	5/22/2002	0.252	3.0	9.90	1215.0	<2.0	40.0	55.7	329.0	485.0	4820.0	630.0	18400.0	21200.0	0.0	243.8
	6/19/2002	0.173	3.6	9.18	1385.0	36.0	45.4	63.3	374.0	505.0	6450.0	550.0	21300.0	25000.0	0.0	284.8
	7/17/2002	0.016	2.8	8.30	1269.0	8.0	60.6	75.5	463.0	449.0	3470.0	450.0	30000.0	26400.0	0.0	242.0
	8/7/2002	0.043	2.7	7.40	1246.0	6.0	53.8	63.8	397.0	423.0	3980.0	360.0	29500.0	23100.0	0.0	265.8
	9/18/2002	0.026	2.7	8.00	1550.0	4.0	68.0	80.4	501.0	722.0	3370.0	360.0	34800.0	29800.0	0.0	334.4
	Average	***0.102***	***2.9***	***8.56***	***1333.0***	***11.2***	***53.6***	***67.7***	***412.8***	***516.8***	***4418.0***	***470.0***	***26800.0***	***25100.0***	***0.0***	***274.2***
	8/8/2002	0.301	4.2	8.10	489.0	2.0	46.4	18.7	193.0	199.0	292.0	<20.0	2980.0	2660.0	1.4	63.0
DJC904	9/18/2002	0.131	4.2	9.60	537.0	<2.0	54.2	26.3	244.0	239.8	190.0	110.0	3300.0	3720.0	1.8	77.0
	Average	***0.216***	***4.2***	***8.85***	***513.0***	***2.0***	***50.3***	***22.5***	***218.5***	***219.4***	***241.0***	***65.0***	***3140.0***	***3190.0***	***1.6***	***70.0***
DTR003	8/7/2002	0.040	3.2	6.50	1266.0	12.0	72.6	52.3	397.0	590.0	3090.0	520.0	29800.0	23600.0	0.0	246.8
	9/17/2002	0.044	3.3	7.20	1296.0	<2.0	81.2	79.8	532.0	739.1	3070.0	960.0	34900.0	33300.0	0.0	280.6

Monitoring Station	Date	Flow, ft^3/s	Field pH	Field DO, mg/l	Field Cond., µΩ	Lab TSS, mg/l	Lab Total Ca, mg/l	Lab Total Mg, mg/l	Lab Total Hardness, mg/l	Lab Total So4, mg/l	Lab Total Fe, µg/l	Lab Total Fer Fe, µg/l	Lab Total Mn, µg/l	Lab Total Al, µg/l	Lab Alk, mg/l	Lab Hot Acid, mg/l
	Average	*0.042*	*3.3*	*6.85*	*1281.0*	*7.0*	*76.9*	*66.1*	*464.5*	*664.6*	*3080.0*	*740.0*	*32350.0*	*28450.0*	*0.0*	*263.7*

APPENDIX C

SOURCES OF FUNDING FOR RESTORATION PROJECTS

Sources of Funding	Organization	Grant Description
Coldwater Heritage Partnership	PA Trout (814)359-5233 dnardone@patrout.org www.patrout.org	Targeted towards cold-water stream systems.
Regional Watershed Support Initiative	Eastern Pennsylvania Coalition for Abandoned Mine Reclamation (EPCAMR) www.AMRclearinghouse.org	Small grants (to $5,000) to support activities related to abandoned mine reclamation.
Waterways Conservation Grants	Pennsylvania Fish and Boat Commission (717)657-4444	Fund aquatic resource protection and enhancement projects including riparian restoration, access acquisition and instream habitat enhancement.
Watershed Assistance Grants	River Network WAG Program 520 SW 6th Ave., Suite 1130 Portland, OR 97204	Grants to support the growth and sustainability of local watershed partnerships that work to promote watershed protection and restoration by resolving watershed problems and issues.
Chesapeake Bay Small Watershed Grants	National Fish & Wildlife Foundation www.nfwf.org/programs.htm	Grants to protect and improve watersheds in the Chesapeake Bay basin.
	Center For Rural Pennsylvania 200 N. Third St., Suite 600 Harrisburg, PA 17101 (717)787-9555 info@ruralpa.org www.ruralpa.org	
Rivers Conservation Program	Pennsylvania Department of Conservation and Natural Resources Division of Conservation Partnerships P.O. Box 8475 Harrisburg, PA 17105-8475 (717)787-2316	Grants to stakeholder groups to carry out planning, implementation, acquisition and development activities.
Chesapeake Bay Program Grants	U.S. Environmental Protection Agency Chesapeake Bay Program Office, Region III 410 Severn Ave., Suite 109 Annapolis, MD 21403 1(800)YOUR-BAY www.chesapeakebay.net	Grants to reduce and prevent pollution and improve the living resources in the Chesapeake Bay.
Pennsylvania Watershed Assistance Grants	U.S. Environmental Protection Agency www.epa.gov/epahome/locatez.htm	
	U.S. Army Corps of Engineers Planning Division Washington, DC 20314-1000 (202)761-0115 www.usace.army.mil	
Abandoned Mine Land Reclamation Program (including Appalachian Clean Streams Initiative)	U.S. Department of the Interior Office of Surface Mining Division of Reclamation Support 1951 Constitution Ave., NW Washington, DC 20240 (202)208-2937 www.osmre.gov	Grants to address problems such as dangerous highwalls, slides, subsidence, dangerous portals and polluted water on eligible abandoned mine lands.
Watershed Protection and Flood Prevention Program (also know as Small Watershed Program/PL566 Program)	U.S. Department of Agriculture Natural Resources Conservation Service P.O. Box 2890 Washington, DC 20013-9770 National: (202)720-3534 Pennsylvania: (717)782-4429 www.ftw.nrcs.usda.gov/programs.html	Grants for projects related to watershed protection, flood prevention, water supply, water quality, erosion and sediment control, wetland restoration and creation, fish and wildlife habitat enhancement and public recreation.
Nonpoint Source Management Grants (319 Program)	Pennsylvania Department of Environmental Protection (717)787-5259 www.dep.state.pa.us	Grants for planning and nonpoint source pollution control projects.

Sources of Funding	Organization	Grant Description
Five-Star Restoration Challenge Grant Program	National Association of Counties www.naco.org/programs/environ/water	
	Canaan Valley Institute West Virginia 1(800)922-3601	Grants to promote the development and growth of local associations committed to improving or maintaining the natural resources of their watersheds.
Nonpoint Source Mini-Grant Program	Pennsylvania Association of Conservation Districts www.pacd.org	
Community Grants	Pennsylvania Power and Light www.pplweb.com/community	
	Turner Foundation One CNN Tower South Tower, Suite 1090 Atlanta, GA 30303 (404)681-9900 www.turnerfoundation.org/turner/water.html	Grants for the protection of rivers, lakes, wetlands, aquifers, oceans and other water systems from contamination, degradation and other abuses.
	Charles A. and Anne Morrow Lindburgh Foundation Minneapolis, MN (612)338-1703	Grants awarded for the conservation of natural resources and water resource management.
	The Leo Model Foundation, Inc. Philadelphia, Pa (215)546-8058	Grants for habitat, watershed and species conservation.
	The William Bingham Foundation 20325 Center Ridge Road, Suite 629 Rocky River, OH 44116 info@WbinghamFoundation.org	Grants to preserve and protect the environment.
	Richard and Rhoda Goldman Fund One Lombard Street, Suite 303 San Francisco, CA 94111 (415)788-1090 info@goldmanfund.org	Grants to support their environmental program.
	The George Gund Foundation 1845 Guildhall Building 45 Prospect Avenue, West Cleveland, OH 44115 (216)241-3114 info@gundfnd.org	Grants to support their environmental programs.
	The Henry P. Kendall Foundation 176 Federal Street Boston, MA 02110 (617)951-1977	Grants to fund projects related to the environment, natural resources and pollution.
	Ferguson (Michael D.) Charitable Foundation 124 E. Main Street Rexburg, ID 83440-1912	Grants to fund projects related to the environment, wildlife and fisheries.
	Mott (Charles Stewart) Foundation Office of Proposal Entry 1200 Mott Foundation Building Flint, MI 48502-1851 infocenter@mott.org www.mott.org	Grants to fund projects related to the environment and fresh water ecosystems.
	The William C. Kenney Watershed Protection Foundation 1001 Bridgeway, Suite 703 Sausalito, CA (415)332-1363	Grants to fund projects related to the environment.

Sources of Funding	Organization	Grant Description
	Max & Anna Levinson Foundation 1411 Paseo de Peralta Santa Fe, NM 87501 (505)982-3662	Grants to fund projects related to ecosystem preservation and the environment.

Other Funding Sources

Directory of Pennsylvania Foundations. 1998. Triadvocates Press in cooperation with the Free Library of Philadelphia. P.O. Box 336, Springfield, Pa., 19064-0336. Call: (610)433-6927.

Profiles of more than 1,500 foundations in Pennsylvania with assets of $150,000 or more and/or total grant support of more than $7,500, based on 1996 or 1997 records.

Pennsylvania Grants Guide. 1998-2000. Pennsylvania Association of Nonprofit Organizations. 132 State Street, Harrisburg, Pa., 17101. www.pano.org. Call: (717)236-8584.

Profiles of more than 600 funding sources in Pennsylvania.

The United Environmental Fund fosters growth of environmental organization throughout the United States by helping them develop a stronger, more diversified funding base. www.uef.org.