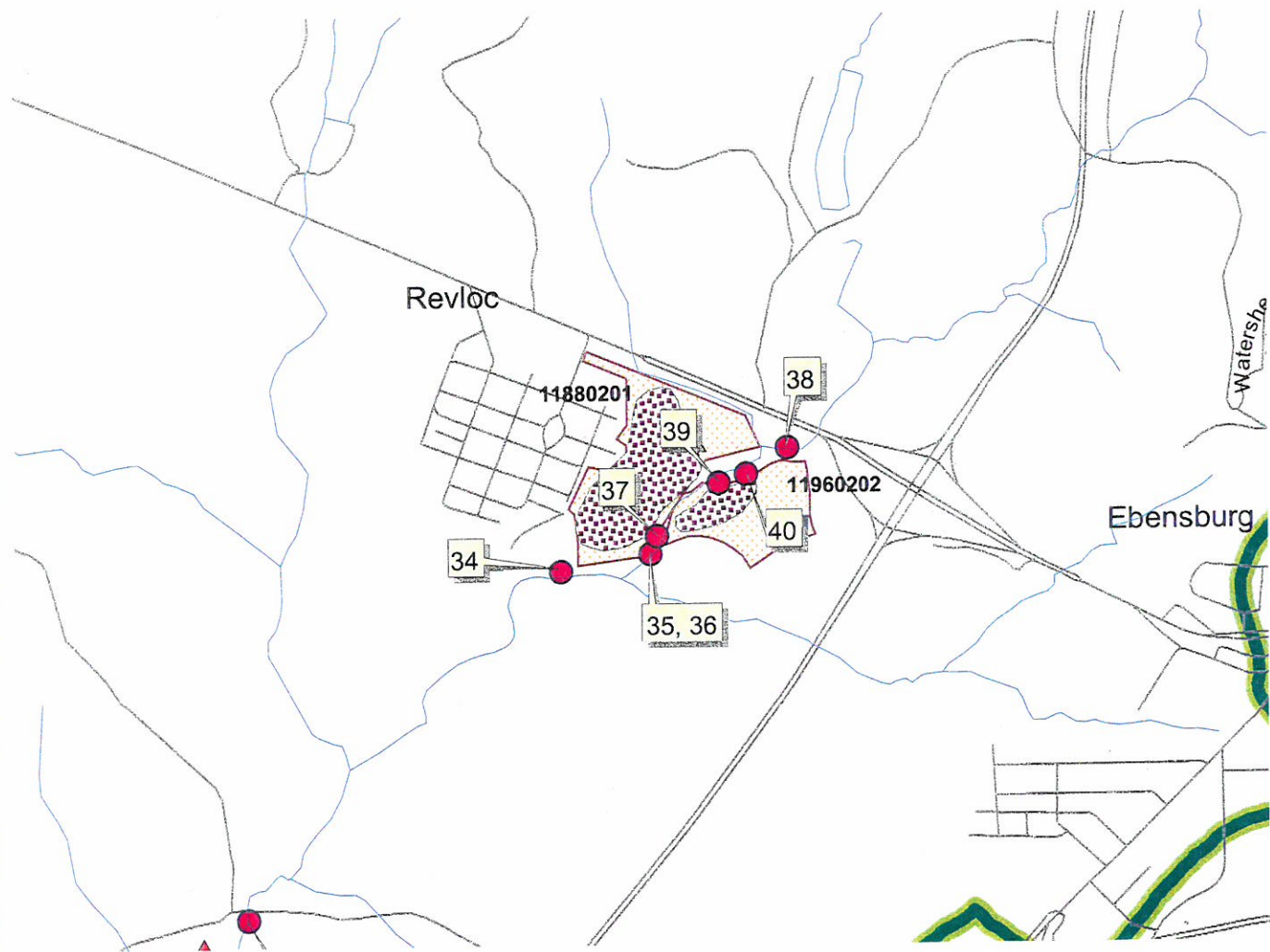


# Ebensburg Power Company S.M.P. s 11880201 & 11960202



WATER QUALITY DATA SUMMARY																			File Created:				
Ebensburg Power																			SMP 11880201		Last Revised:		
Blacklick Township																			Cambria County				
Description-SBBC below site																			Fig 4 MP#		34		
Sample	Monitoring	Sample			Specific	Temp.	Total Acidity	Net Acidity	Total	Total	Ferrous	Total	Total	Total	Total	Total	Total	Susp.	Acid	Fe	Mn	Al	
Date	Point	Number	Flow	pH	pH	Conduct.	(field)	(calculated)	(lab)	Alkalinity	Fe	Fe	Al	Mn	Mg	Ca	Sulfates	Hardness	Solids	Loading	Loading	Loading	Loading
			(gpm)	(field)	(lab)	(umhos/cm)	(deg. C)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
7/14/88	1/F1				3.50	1200	nd	722.50	2480		7.64		120.00	10.18			3200		1.0	nd	nd	nd	nd
7/14/88	1/F1				3.20	2400		1421.24	2060		7.80		241.70	13.20			2777		1.0	nd	nd	nd	nd
9/21/88	1/F1		5639		4.30	240		58.02	50	6	1.14		9.20	0.70			119		36.0	3389.04	77.27	47.45	623.58
12/6/88	1/F1		2374		4.30	360		131.82	166	16	1.12		22.40	0.92			258		2.8	4736.89	31.96	26.25	639.19
9/2/89	1/F1	4305-717			4.00			496.65	466	3	3.09		85.80	3.27			564		12.0	nd	nd	nd	nd
12/3/89	1/F1	4305-818			4.50			117.48	102	10	1.57		19.70	1.14			103		3.0	nd	nd	nd	nd
10/17/90	1/F1	4305-511			4.50			70.95	62	8	1.07		11.70	0.77			125		37.0	nd	nd	nd	nd
3/25/91	1/F1		22604		4.70	140		29.58	20	2	0.62		4.74	0.30			37		20.0	5434.00	168.45	81.51	1287.86
4/15/91	1/F1	4305-816			4.70			63.67	30	7	2.86		9.67	0.65			100		79.0	nd	nd	nd	nd
6/17/91	1/F1		927		4.10	620		279.50	298	16	1.65		48.10	1.91			421		14.0	3320.48	18.39	21.28	535.96
9/13/91	1/F1	4305-028			3.50			1968.56	1960	0	5.33		344.00	13.40			2794		2.0	nd	nd	nd	nd
9/27/91	1/F1		110		3.70	2200		1050.76	284	0	2.75		183.00	8.34			1635		0.0	375.50	3.64	11.03	241.96
12/12/91	1/F1		3261		4.60	360		46.41	8	2	0.61		7.56	0.80			109		30.0	313.58	23.91	31.36	296.33
12/20/91	1/F1		20263		4.90	140		17.84	16	2	0.42		2.80	0.28			52		35.6	3896.98	102.30	68.20	681.97
3/25/92	1/F1		3475		4.50	520		59.62	64	0	0.68		9.82	0.87			154		10.0	2673.25	28.40	36.34	410.18
5/27/92	1/F1	4305-403			4.30			343.57	292	15	1.95		59.40	2.92			390		2.0	nd	nd	nd	nd
6/25/92	1/F1		126		3.70	1400		492.10	690	0	1.81		84.50	3.92			854		20.0	1045.02	2.74	5.94	127.98
9/18/92	1/F1	4305-543			4.10			406.79	368	10	2.08		70.10	3.95			426		6.0	nd	nd	nd	nd
9/22/92	1/F1		2075		4.60	320		74.77	52	2	2.50		11.60	1.24			147		80.0	1296.96	62.35	30.93	289.32
12/18/92	1/F1	4339-030			6.30			15.40	1	14	0.69		2.32	0.34			44		22.0	nd	nd	nd	nd
12/21/92	1/F1		9630		5.70	300		14.64	14	8	0.63		2.20	0.33			96		2.0	1620.54	72.92	38.20	254.66
3/24/93	1/F1		10111		6.10	2400		15.92	0	8	0.67		2.40	0.40			63		24.0	nd	81.43	48.61	291.68
3/24/93	1/F1	4305-706			5.90			18.71	6	12	1.02		2.73	0.40			55		30.0	nd	nd	nd	nd
6/28/93	1/F1		820		4.20	500		302.01	594	26	2.33		51.40	3.63			699		0.0	5854.70	22.97	35.78	506.62
9/30/93	1/F1		8935		6.60	220		19.49	4	6	0.80		3.00	0.35			76		26.0	429.59	85.92	37.59	322.20
12/15/93	1/F1		9374		4.50	220		60.17	62	0	1.02		9.81	0.70			139		18.0	6985.88	114.93	78.87	1105.35
12/30/93	1/F1	4305-057			4.50			179.05	50	7	1.87		30.40	1.81			73		4.0	nd	nd	nd	nd
3/30/94	1/F1		14440		4.80	180		29.92	36	2	0.52		4.89	0.29			87		0.0	6248.48	90.26	50.33	848.75
6/22/94	1/F1		123		4.20	540		137.54	280	16	1.87		22.40	2.60			586		0.0	413.97	2.76	3.84	33.12
9/28/94	1/F1		3760		4.50	180		34.21	20	0	0.61		5.30	0.83			109		0.0	903.90	27.57	37.51	239.53
12/23/94	1/F1	4305-512			4.70			53.61	48	10	0.77		8.86	0.69			88		16.0	nd	nd	nd	nd
12/27/94	1/F1		4621		4.70	320		53.51	51	1	1.00		8.70	0.78			117		18.0	2832.77	55.54	43.32	483.24
3/30/95	1/F1		4259		4.50	400		67.91	6	0	1.03		11.10	0.99			119		6.0	307.16	52.73	50.68	568.24
6/21/95	1/F1		1497		4.40	460		79.54	82	12	0.80		13.00	1.69			170		0.0	1475.50	14.40	30.41	233.92
6/21/95	1/F1	4305-778			4.40			90.37	86	9	0.94		14.80	1.93			161		22.0	nd	nd	nd	nd
9/21/95	1/F1		328		3.60	1600		353.34	620	0	2.48		58.30	5.38			960		0.0	2444.39	9.78	21.21	229.85
9/26/95	1/F1	4305-882			3.90			359.21	392	0	3.39		60.20	4.87			573		3.0	nd	nd	nd	nd
12/21/95	1/F1		3539		4.60	260		40.38	33	3	0.43		6.60	0.69			75		0.0	1403.78	18.29	29.35	280.76
3/14/96	1/F1		6330		4.60	320		43.47	58	1	0.61		7.10	0.59			86		0.0	4413.02	46.41	44.89	540.21
3/29/96	1/F1	4305-016			4.60			36.65	62	8	0.50		5.97	0.46			77		3.0	nd	nd	nd	nd
6/22/96	1/F1		1632		4.60	260		29.45	42	2	0.46		4.50	1.06			111		34.0	823.90	9.02	20.79	88.27
6/28/96	1/F1	4305-155			4.50			102.69	114	12	3.15		16.20	1.38			162		19.0	nd	nd	nd	nd
9/30/96	1/F1		13628		5.40	108		29.48	12	4	0.68		4.80	0.41			65		20.0	1965.70	111.39	67.16	786.28
12/18/96	1/F1		993		4.20	240		36.39	30	2	1.07		5.30	0.49			68		0.0	358.08	12.77	5.85	63.26
3/12/97	1/F1		349		5.10	240		18.48	12	2	0.52		2.90	0.30			61		0.0	50.34	2.18	1.26	12.17
3/31/97	1/F1	4305-395			5.30			23.22	12	12	0.91		3.58	0.34			58		16.0	nd	nd	nd	nd
6/16/97	1/F1		96		4.60	320		80.52	107	1	1.62		13.10	1.11			162		46.0	123.47	1.87	1.28	15.12
6/24/97	1/F1	4339-890			4.30			136.51	130	8	2.07		22.50	1.79			243		16.0	nd	nd	nd	nd
9/25/97	1/F1		24		4.20	1200		308.83	356	14	1.71		53.00	3.40			649		8.0	102.70	0.49	0.98	15.29
9/25/97	1/F1	4305-591			4.10			393.68	380	9	1.66		67.80	4.40			802		3.0	nd	nd	nd	nd
12/18/97	1/F1		126		4.90	380		57.52	81	1	1.04		9.50	0.68			108		56.0	122.68	1.58	1.03	14.39
3/26/98	1/F1		175		4.60	380		66.24	68	2	1.02		11.00	0.57			145		10.0	143.04	2.15	1.20	23.14



WATER QUALITY DATA SUMMARY																							
Ebensburg Power			SMP 11880201																				
Blacklick Township			Cambria County																				
Description-discharge			Fig 4 MP# 35																				
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)
9/29/89	4(A)	4305-719			3.20		nd	2807.50	2940	0	4.10		492.00	15.10			3256		5.0	nd	nd	nd	nd
3/7/90	4(A)	4305-970	10.0		2.90			2875.21	2920	0	3.03		500.00	12.30			2992		2.0	350.98	0.36	1.48	60.10
5/18/90	4(A)	4305-170	10.0		3.10			2851.61	3060	0	2.83		500.00	12.30			2002		2.0	367.81	0.34	1.48	60.10
7/31/90	4(A)		17.1		3.00	2400		2898.35	3370	0	2.67		507.20	10.60			4135			692.68	0.55	2.18	104.25
8/28/90	4(A)		10.2		3.10	3000		2958.80	3470	0	2.70		519.00	13.30			4335			425.44	0.33	1.63	63.63
9/11/90	4(A)	4305-407	4.5		3.00			2873.20	3680	0	3.88		500.00	17.00			4048		10.0	199.05	0.21	0.92	27.05
9/26/90	4(A)		11.8		3.00	3200		3146.09	4050	0	2.69		550.60	14.00			4505			574.44	0.38	1.99	78.09
10/25/90	4(A)		14.1		3.10	3000		3259.78	3600	0	2.94		573.50	11.70			4517			610.14	0.50	1.98	97.20
11/20/90	4(A)		15.5		3.10	2800		3046.40	3120	0	2.73		534.50	14.00			4273			581.29	0.51	2.61	99.58
12/20/90	4(A)		17.6		3.10	2600		2943.59	3250	0	2.35		516.60	12.80			4253			687.54	0.50	2.71	109.29
1/15/91	4(A)		15.3		3.10	3200		2884.99	3380	0	2.76		506.00	12.40			4531		2.0	621.60	0.51	2.28	93.06
2/7/91	4(A)	4305-717			3.20			2155.77	2200	0	2.41		377.00	11.10			1902		4.0	nd	nd	nd	nd
2/22/91	4(A)		20.4		3.00	2000		2981.68	3300	0	2.89		522.20	10.20			4442			809.19	0.71	2.50	128.05
3/25/91	4(A)		21.7		3.00	2600		2567.57	3200	0	2.66		448.70	7.72			4303			834.67	0.69	2.01	117.04
4/18/91	4(A)		20.0		3.00	3600		2479.00	3280	0	2.71		432.10	9.73			4161			788.51	0.65	2.34	103.88
5/14/91	4(A)		19.0		3.00	4000		1907.16	3570	0	2.83		329.30	9.65			4566			815.32	0.65	2.20	75.21
6/17/91	4(A)		11.8		3.00	3200		3598.01	3820	0	2.82		632.90	10.50			4817			541.81	0.40	1.49	89.77
7/24/91	4(A)		7.8		3.00	4800		3342.72	4100	0	2.73		586.90	11.00			5078		7.0	384.40	0.26	1.03	55.03
8/23/91	4(A)		6.2		3.00	4200		2596.95	4160	0	2.67		453.00	10.70			5270			310.02	0.20	0.80	33.76
9/13/91	4(A)	4305-027	5.0		3.00			2879.74	4120	0	4.21		500.00	20.10			5229		2.0	247.61	0.25	1.21	30.05
9/27/91	4(A)		4.2		3.00	4800		4008.58	4200	0	3.36		704.20	17.30			5372		2.0	212.03	0.17	0.87	35.55
10/29/91	4(A)		3.0		3.10	4200		3180.40	3900	0	2.43		558.40	15.00			5527			140.63	0.09	0.54	20.14
11/27/91	4(A)		2.8		3.10	4000		3181.81	3980	0	2.75		558.40	15.30			5303		24.0	133.95	0.09	0.51	18.79
12/9/91	4(A)	4305-109			3.10			2865.63	3200	0	3.10		500.00	19.60			4620		2.0	nd	nd	nd	nd
12/9/91	4(A)	4305-109			3.10			2865.63	3200	0	3.10		500.00	19.60			4620		2.0	nd	nd	nd	nd
12/12/91	4(A)		6.1		3.10	4200		3643.36	3740	0	2.97		641.70	13.90			4284		26.0	274.22	0.22	1.02	47.05
1/23/92	4(A)		7.5		2.70	1300		2042.87	2900	0	2.30		344.00	12.90			3759			261.44	0.21	1.16	31.01
2/11/92	4(A)	4305-224			3.10			2854.75	2700	0	2.51		500.00	14.50			2520		5.0	nd	nd	nd	nd
2/11/92	4(A)		8.8		3.20	3200		1329.71	2600	0	1.87		229.00	10.50			3477			275.02	0.20	1.11	24.22
3/25/92	4(A)		15.1		3.10	3200		970.08	2530	0	1.92		164.00	7.10			3430			459.20	0.35	1.29	29.77
4/29/92	4(A)		20.7		3.10	2800		1190.63	2050	0	1.34		203.00	9.90			2859		12.0	510.07	0.33	2.46	50.51
5/20/92	4(A)		12.8		3.20	3000		1381.11	2880	0	1.92		239.00	8.10			3526		0.8	443.11	0.30	1.25	36.77
6/18/92	4(A)		7.7		3.00	3000		1963.32	3270	0	1.74		340.00	9.40			3310		26.0	302.65	0.16	0.87	31.47
7/29/92	4(A)		7.7		3.10	3200		1727.57	2700	0	2.30		299.00	10.00			4105		12.0	249.90	0.21	0.93	27.67
8/24/92	4(A)		8.2		3.00	3000		1387.48	3200	0	2.19		236.00	10.30			4006		10.0	315.40	0.22	1.02	23.26
9/18/92	4(A)	4305-539	10.0		3.00			2826.35	2920	0	2.77		493.00	14.30			2751		2.0	350.98	0.33	1.72	59.26
9/22/92	4(A)		8.6		3.00	3000		1653.52	2820	0	2.14		284.00	9.80			4474			291.51	0.22	1.01	29.36
10/21/92	4(A)		7.7		3.00	3200		2110.99	2900	0	2.11		366.00	10.50			4422			268.41	0.20	0.97	33.87
11/20/92	4(A)		7.4		3.10	2800		1652.98	3300	0	2.14		286.00	9.00			3998			293.53	0.19	0.80	25.44
11/23/92	4(A)	4305-637			3.10			2857.06	2880	0	2.69		500.00	15.50			2090		9.0	nd	nd	nd	nd
12/31/92	4(A)		10.9		3.00	2800		1715.28	2730	0	2.48		295.00	9.60			4104			357.68	0.32	1.26	38.65
1/18/93	4(A)		18.4		3.10	3000		1741.17	3350	0	2.61		301.00	10.90			4230			740.91	0.58	2.41	66.57
2/25/93	4(A)		11.5		3.20	2800		1176.54	2540	0	2.00		202.00	8.70			3574			351.10	0.28	1.20	27.92
4/21/93	4(A)		32.0		3.20	1800		2049.02	3370	0	3.52		358.00	8.90			4368			1296.24	1.35	3.42	137.70
5/21/93	4(A)		18.8		3.20	2000		1441.56	2560	0	3.06		250.00	6.00			3091		0.8	578.50	0.69	1.36	56.49
6/28/93	4(A)	4305-859			3.10			2853.58	2920	0	2.82		500.00	13.40			1364		3.0	nd	nd	nd	nd
6/28/93	4(A)		13.9		3.30	2000		1265.51	3560	0	2.95		218.00	10.80			4140			594.80	0.49	1.80	36.42
7/29/93	4(A)		11.4		3.20	2200		2058.48	3540	0	2.83		360.00	9.00			4491			485.08	0.39	1.23	49.33
8/18/93	4(A)		10.1		3.10	2600		1700.97	3170	0	2.96		294.00	9.70			4488			384.84	0.36	1.18	35.69
9/30/93	4(A)	4305-937			3.10			2857.36	3140	0	3.21		500.00	14.90			2629		36.0	nd	nd	nd	nd
9/30/93	4(A)		8.4		3.10	2600		1345.10	3700	0	3.05		230.00	9.70			4235			373.58	0.31	0.98	23.22
10/27/93	4(A)		3.3		3.10	2200		1638.26	3230	0	3.01		283.00	8.80			3942			128.12	0.12	0.35	11.23

WATER QUALITY DATA SUMMARY																										
Ebensburg Power		SMP 11880201																								
Blacklick Township		Cambria County																								
Description-discharge				Latitude		40-29-15		Longitude		78-45-34													Fig 4 MP#		35	
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)			
11/15/93	4(A)		10.2		3.10	1800		1596.65	3000	0	2.26		275.00	11.50			4263			367.81	0.28	1.41	33.72			
12/15/93	4(A)		15.6		3.10	2000		1413.35	2560	0	2.48		243.00	8.30			3465		10.0	480.03	0.47	1.56	45.57			
12/30/93	4(A)	4305-059			3.10			2859.72	2546	0	3.34		500.00	16.00			2543		16.0	nd	nd	nd	nd			
1/26/94	4(A)		8.0		3.10	1800		1452.19	3110	0	2.44		250.00	8.30			3868			299.06	0.23	0.80	24.04			
2/28/94	4(A)		7.3		3.00	2000		1467.36	3030	0	3.20		250.00	9.90			3798			265.87	0.28	0.87	21.94			
3/30/94	4(A)	4305-133			3.10			2850.22	2720	0	2.79		500.00	11.60			3180		22.0	nd	nd	nd	nd			
3/30/94	4(A)		10.4		3.10	2200		1611.49	2860	0	2.79		278.00	9.70			4030			357.52	0.35	1.21	34.75			
4/26/94	4(A)		18.9		2.80	2400		1694.05	3250	0	3.63		286.00	7.70			4200			738.33	0.82	1.75	64.97			
5/31/94	4(A)		12.3		3.10	1800		1599.89	2850	0	3.36		276.00	8.60			3916			421.36	0.50	1.27	40.81			
6/22/94	4(A)	4305-250			3.10			2852.17	2888	0	3.12		500.00	12.18			2476		4.0	nd	nd	nd	nd			
6/22/94	4(A)		7.8		3.20	2000		684.87	3090	0	3.29		112.00	11.80			3952			289.71	0.31	1.11	10.50			
7/27/94	4(A)		5.1		3.10	2200		1843.39	3630	0	3.92		319.00	10.10			4493			222.53	0.24	0.62	19.56			
8/25/94	4(A)		9.1		3.00	1600		1819.83	3290	0	3.64		313.00	10.30			4203			359.87	0.40	1.13	34.24			
9/28/94	4(A)		10.2		2.80	1600		2515.22	2700	0	3.17		432.00	13.30			3640			331.03	0.39	1.63	52.96			
9/30/94	4(A)	4305-376			3.10			2640.94	2762	0	3.05		462.00	12.40			1769			nd	nd	nd	nd			
10/31/94	4(A)		9.3		3.10	3400		1482.96	2870	0	3.33		255.00	8.60			4483			320.83	0.37	0.96	28.51			
12/27/94	4(A)		18.4		3.30	3600		1349.90	2450	0	2.66		234.00	8.68			3176			541.86	0.59	1.92	51.75			
3/30/95	4(A)		16.4		3.20	3200		1063.21	1740	0	2.31		182.00	7.12			2582			343.00	0.46	1.40	35.88			
3/14/96	4(A)		9.1		3.10	3000		2186.78	2460	0	1.97		381.00	12.10			2945			269.08	0.22	1.32	41.67			
4/22/96	4(A)		6.8		3.10	2800		2311.03	2270	0	1.87		404.00	10.20			2908			185.54	0.15	0.83	33.02			
6/21/96	4(A)		2.4		3.10	2800		1648.90	2230	0	1.61		285.00	10.60			3054			64.33	0.05	0.31	8.22			
7/31/96	4(A)				3.00	3000		2082.30	1520	0	1.79		361.00	10.50			2966			nd	nd	nd	nd			
8/26/96	4(A)				3.10			39.44		0										nd	nd	nd	nd			
9/30/96	4(A)	4305-238	3.4		3.10			1980.65	2290	0	1.38		345.00	9.78			2418		35.0	93.04	0.06	0.40	14.02			
9/30/96	4(A)		3.4		3.20	2800		2085.15	1480	0	1.86		365.00	9.80			2864			60.48	0.08	0.40	14.92			
10/25/96	4(A)		11.9		3.10	3000		1367.65	1350	0	1.43		235.00	9.20			2679			193.10	0.20	1.32	33.61			
11/22/96	4(A)		11.7		3.10	2600		1356.03	1240	0	1.45		233.00	8.90			2423			174.39	0.20	1.25	32.77			
12/18/96	4(A)		14.6		2.30	2600		1670.22	1290	0	1.78		252.00	7.90			2423			226.38	0.31	1.39	44.22			
1/16/97	4(A)		10.5		3.20	2800		2136.76	5100	0	1.51		375.00	8.10			2598			643.67	0.19	1.02	47.33			
2/24/97	4(A)		10.2		3.20	3000		1721.67	1810	0	2.28		298.00	14.30			2914			221.91	0.28	1.75	36.54			
3/12/97	4(A)		11.5		3.10	2800		1295.37	1670	0	2.33		222.00	7.90			2583			230.84	0.32	1.09	30.69			
3/31/97	4(A)	4305-394	1.0		3.20			1967.81	2028	0	2.35		344.00	8.81			2520		3.0	24.38	0.03	0.11	4.13			
4/16/97	4(A)		1.5		3.20	3000		1404.53	1000	0	1.50		244.00	6.30			2500			18.03	0.03	0.11	4.40			
5/28/97	4(A)		3.7		3.20	3400		1985.03	2520	0	2.25		346.00	12.30			3384			112.07	0.10	0.55	15.39			
6/16/97	4(A)		0.5		3.20	2800		1550.71	1800	0	1.76		269.00	9.80			2749		4.0	10.82	0.01	0.06	1.62			
8/22/97	4(A)		0.4		3.20	3200		2256.56	2000	0	2.17		395.00	11.80			2823			9.62	0.01	0.06	1.90			
10/29/97	4(A)		2.9		3.70	2800		1038.62	2160	0	2.03		180.00	11.90			3006			75.29	0.07	0.41	6.27			
1/19/98	4(A)		3.5		3.30	2600		880.72	1880	0	2.46		150.00	8.00			2617			79.09	0.10	0.34	6.31			
2/23/98	4(A)		3.4		3.20	3200		1315.89	2210	0	4.09		226.00	8.80			2992			90.32	0.17	0.36	9.24			
3/26/98	4(A)		3.4		3.20	3800		2199.34	2870	0	5.01		384.00	9.80			3921		2.0	117.29	0.20	0.40	15.69			
3/31/98	4(A)	4305-864			3.20			2519.05	2778	0	2.02		443.00	9.50			3330		6.0	nd	nd	nd	nd			



WATER QUALITY DATA SUMMARY																																
Ebensburg Power																			SMP 11880201													
Blacklick Township																			Cambria County													
Description-discharge																			Latitude		40-29-15		Longitude		78-45-34				Fig 4 MP#		36	
Sample	Monitoring	Sample			Specific	Temp.	Total Acidity	Net Acidity	Total	Total	Ferrous	Total	Total	Total	Total	Total	Total	Susp.	Acid	Fe	Mn	Al										
Date	Point	Number	Flow	pH	Conduct.	(field)	(calculated)	(lab)	Alkalinity	Fe	Fe	Al	Mn	Mg	Ca	Sulfates	Hardness	Solids	Loading	Loading	Loading	Loading										
			(gpm)	(field)	(umhos/cm)	(deg. C)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)										
7/14/88	4(B)		17.7	3.20	2600	nd	1620	3120	0	5.17		280.00	9.28			3020		17.0	661.92	1.10	1.97	59.40										
7/14/88	4(B)		17.7	3.20	2800		1689	2580	0	2.58		292.20	13.80			3441		51.0	547.35	0.55	2.93	61.99										
8/16/88	4(B)		6.1	3.16	2800		2743	2960	0	3.05		480.00	16.47			4670		41.0	217.03	0.22	1.21	35.19										
8/16/88	4(B)		6.1	3.00	3200		1843	2900	0	2.68		316.00	15.00			3431		13.0	212.63	0.20	1.10	23.17										
9/21/88	4(B)		10.8	3.10	2200		1850	2350	0	1.77		320.00	14.10			3043		2.0	305.35	0.23	1.83	41.58										
10/10/88	4(B)		15.1	2.80	2800		2101	2560	0	2.20		358.50	11.60			3346		1.2	463.11	0.40	2.10	64.85										
11/3/88	4(B)		11.4	3.10	2400		2225	2660	0	2.29		388.90	8.57			3541		12.8	362.90	0.31	1.17	53.06										
12/6/88	4(B)		17.8	3.20	2400		2153	2600	0	1.95		377.60	8.50			3398		0.0	556.60	0.42	1.82	80.84										
1/9/89	4(B)		15.8	3.10	2400		1915	2540	0	1.99		333.30	8.81			3223		3.0	480.86	0.38	1.67	63.10										
2/1/89	4(B)		19.4	3.20	2600		2724	2550	0	2.05		479.60	10.20			3245		0.0	594.02	0.48	2.38	111.72										
5/18/90	4(B)	4305-171	7.5	3.30			1817	1722	0	2.17		318.00	8.98			1956		2.0	155.24	0.20	0.81	28.67										
7/31/90	4(B)		19.5	3.20	2200		1911	2060	0	2.22		333.30	10.50			2760			482.84	0.52	2.46	78.12										
8/28/90	4(B)		12.3	3.20	2200		1605	2240	0	2.16		278.50	9.98			2907			331.18	0.32	1.48	41.18										
9/11/90	4(B)	4305-408	4.0	3.30			2294	2220	0	2.77		402.00	13.50			2849		8.0	106.74	0.13	0.65	19.33										
9/26/90	4(B)		14.5	3.20	2400		1683	2200	0	2.04		292.10	11.40			2951			383.44	0.36	1.99	50.91										
10/25/90	4(B)		23.0	3.30	2200		2013	2300	0	2.23		352.90	9.95			2852			635.86	0.62	2.75	97.56										
11/15/90	4(B)		19.8	3.30	2200		1968	2010	0	2.12		344.80	10.50			2814			478.37	0.50	2.50	82.06										
12/20/90	4(B)		22.6	3.30	2000		1902	2090	0	1.85		333.30	9.41			2857			567.75	0.50	2.56	90.54										
1/15/91	4(B)		19.6	3.20	2600		1796	2270	0	2.07		313.30	8.46			3021			534.79	0.49	1.99	73.81										
2/22/91	4(B)		35.1	3.20	1400		1656	1740	0	1.93		288.90	6.45			2498			734.11	0.81	2.72	121.89										
3/25/91	4(B)		37.8	3.20	1800		1330	1740	0	1.70		230.80	5.68			2435			790.58	0.77	2.58	104.87										
4/18/91	4(B)		28.7	3.10	2400		1430	1730	0	1.74		246.90	6.61			2277			596.81	0.60	2.28	85.17										
5/14/91	4(B)		24.1	3.20	2600		1068	1910	0	2.10		182.90	7.52			2620			553.29	0.61	2.18	52.98										
6/17/91	4(B)		12.0	3.20	2400		1882	2500	0	2.20		329.10	7.71			3054			360.60	0.32	1.11	47.47										
7/24/91	4(B)		5.9	3.20	3600		1751	2630	0	2.18		304.30	11.30			3528		5.0	186.51	0.15	0.80	21.58										
8/23/91	4(B)		3.1	3.20	3000		1460	2380	0	1.82		253.00	8.56			3218			88.68	0.07	0.32	9.43										
9/27/91	4(B)		1.0	3.30	3200		1939	2200	0	1.76		338.00	15.60			2995			26.44	0.02	0.19	4.06										
10/29/91	4(B)		0.3	3.40	2800		1637	2100	0	1.31		285.70	13.10			2976		6.4	7.57	0.00	0.05	1.03										
11/27/91	4(B)		0.1	3.30	2400		1352	1600	0	1.68		233.80	12.00			2308		22.0	2.69	0.00	0.02	0.39										
12/12/91	4(B)		5.4	3.40	2600		1256	1540	0	1.23		217.90	11.20			2270		20.0	99.96	0.08	0.73	14.14										
1/23/92	4(B)		6.2	3.20	2200		1310	1800	0	1.46		226.00	9.71			2333			134.14	0.11	0.72	16.84										
2/11/92	4(B)	4305-225		3.30			1817	1712	0	1.50		318.00	10.50			2431		7.0	0.00	0.00	0.00	0.00										
2/11/92	4(B)		11.5	3.40	2400		1139	1600	0	1.25		198.00	7.64			2175			221.17	0.17	1.06	27.37										
3/25/92	4(B)		20.4	3.30	2400		852	1520	0	1.28		146.00	6.22			2324			372.72	0.31	1.53	35.80										
4/29/92	4(B)		26.3	3.20	2400		854	1680	0	1.22		145.00	6.94			2342		2.0	531.09	0.39	2.19	45.84										
5/20/92	4(B)		17.0	3.40	2200		818	1490	0	1.38		141.00	5.42			2011			304.47	0.28	1.11	28.81										
6/18/92	4(B)		8.3	3.20	2400		1139	2400	0	1.29		196.00	7.54			2737		26.0	239.44	0.13	0.75	19.55										
7/29/92	4(B)		7.2	3.40	2200		726	2200	0	1.40		124.00	7.08			2263		4.0	190.40	0.12	0.61	10.73										
8/24/92	4(B)		7.4	3.30	2400		793	1700	0	1.45		135.00	7.23			2912			151.21	0.13	0.64	12.01										
9/18/92	4(B)	4305-540	15.0	3.10			2479	2340	0	2.12		433.00	13.50			2871		2.0	421.90	0.38	2.43	78.07										
9/22/92	4(B)		7.1	3.30	2200		803	1650	0	1.27		137.00	6.57			2178			140.81	0.11	0.56	11.69										
10/21/92	4(B)		6.6	3.40	2400		975	1830	0	1.27		169.00	6.36			2324			145.18	0.10	0.50	13.41										
11/20/92	4(B)		5.7	3.30	2000		761	1500	0	1.10		130.00	5.16			1880			102.77	0.08	0.35	8.91										
12/18/92	4(B)	4339-032		3.40			1503	1314	0	1.45		263.00	8.77			1038		3.0	0.00	0.00	0.00	0.00										
12/21/92	4(B)		8.9	2.90	2000		788	1410	0	1.24		128.00	5.65			2282			150.84	0.13	0.60	13.69										
1/18/93	4(B)		28.5	3.30	2600		1557	2470	0	1.92		272.00	7.25			3282			846.15	0.66	2.48	93.18										
2/25/93	4(B)		14.2	3.40	2200		599	1510	0	1.60		101.00	7.12			2628			257.73	0.27	1.22	17.24										
3/24/93	4(B)	4305-708		3.30			1598	1486	0	1.47		279.00	9.18			1914		3.0	0.00	0.00	0.00	0.00										
3/24/93	4(B)		20.6	3.60	2000		1236	1690	0	1.62		217.00	6.37			2336			418.67	0.40	1.58	53.76										
4/21/93	4(B)		40.1	3.30	2000		1274	2190	0	2.45		221.00	6.92			2634			1055.58	1.18	3.34	106.52										
5/21/93	4(B)		26.2	3.40	1600		868	1440	0	2.16		150.00	4.15			1877		0.4	453.49	0.68	1.31	47.24										
6/28/93	4(B)	4305-860		3.30			1755	1700	0	2.12		307.00	9.05			2299		3.0	0.00	0.00	0.00	0.00										

WATER QUALITY DATA SUMMARY																							
Ebensburg Power										SMP 11880201													
Blacklick Township										Cambria County													
Description-discharge										Fig 4 MP# 36													
Sample	Monitoring	Sample			Specific	Temp.	Total Acidity	Net Acidity	Total	Total	Ferrous	Total	Total	Total	Total	Total	Total	Susp.	Acid	Fe	Mn	Al	
Date	Point	Number	Flow	pH	pH	Conduct.	(field)	(lab)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
			(gpm)	(field)	(lab)	(umhos/cm)	(deg. C)		(calculated)	(lab)	Alkalinity	Fe	Fe	Al	Mn	Mg	Ca	Sulfates	Hardness	Solids	Loading	Loading	Loading
6/28/93	4(B)		16.5		3.50	2000			869	1910	0	2.45		149.00	9.73			2575		378.81	0.49	1.93	29.55
7/29/93	4(B)		11.1		3.10	1400			1281	1660	0	2.14		220.00	6.29			2654		221.48	0.29	0.84	29.35
8/18/93	4(B)		9.9		3.30	1800			972	1870	0	2.03		167.00	6.56			2599		222.53	0.24	0.78	19.87
9/30/93	4(B)	4305-936			3.40				1364	1314	0	1.47		238.00	9.03			916	14.0	0.00	0.00	0.00	0.00
9/30/93	4(B)		7.2		3.40	2000			703	1360	0	1.71		120.00	5.91			2128		117.70	0.15	0.51	10.39
10/27/93	4(B)		8.7		3.40	1600			822	1550	0	1.96		141.00	6.86			2297		162.09	0.20	0.72	14.74
11/15/93	4(B)		9.7		3.40	1600			969	1590	0	1.66		167.00	8.66			2367		185.38	0.19	1.01	19.47
12/15/93	4(B)		25.4		3.30	1600			976	1900	0	1.98		168.00	5.81			2538		580.09	0.60	1.77	51.29
1/26/94	4(B)		15.1		3.40	1600			831	1710	0	1.85		143.00	5.84			2377		310.37	0.34	1.06	25.95
2/28/94	4(B)		11.3		3.40	1600			804	1470	0	2.03		138.00	6.07			2444		199.66	0.28	0.82	18.74
3/30/94	4(B)	4305-134			3.30				1904	1786	0	1.96		334.00	8.25			2477	26.0	0.00	0.00	0.00	0.00
3/30/94	4(B)		16.8		3.40	1800			968	1900	0	2.49		167.00	6.98			2793		383.68	0.50	1.41	33.72
4/26/94	4(B)		30.9		3.10	2000			908	1790	0	2.75		153.00	5.32			2379		664.84	1.02	1.98	56.83
5/31/94	4(B)		18.1		3.30	1600			838	1500	0	2.73		143.00	5.76			2433		326.34	0.59	1.25	31.11
6/22/94	4(B)		11.5		3.30	1800			612	1490	0	2.38		102.00	7.21			2591		205.96	0.33	1.00	14.10
7/27/94	4(B)		5.8		3.40	1600			833	1710	0	2.18		143.00	6.55			2018		119.21	0.15	0.46	9.97
8/25/94	4(B)		9.3		3.40	1400			675	2200	0	1.54		115.00	5.90			1920		245.93	0.17	0.66	12.86
9/28/94	4(B)		11.1		3.20	1600			1381	1390	0	1.78		239.00	8.10			2240		185.46	0.24	1.08	31.89
9/30/94	4(B)	4305-377			3.40				1296	1460	0	1.56		226.00	7.97			1461	3.0	0.00	0.00	0.00	0.00
10/31/94	4(B)		6.1		3.40	2400			713	1280	0	1.59		122.00	5.35			2200		93.85	0.12	0.39	8.95
11/22/94	4(B)		6.7		3.70	2200			671	1040	0	1.36		116.00	6.41			1841		83.76	0.11	0.52	9.34
12/27/94	4(B)		18.2		3.60	2600			794	1150	0	1.47		138.00	5.47			1980		251.58	0.32	1.20	30.19
1/31/95	4(B)		17.5		3.20	2400			534	880	0	1.29		88.00	5.05			1474		185.11	0.27	1.06	18.51
2/27/95	4(B)		16.1		3.50	2600			535	1120	0	1.33		91.00	4.96			1569		216.74	0.26	0.96	17.61
3/30/95	4(B)		18.7		3.40	2600			650	920	0	1.38		111.00	4.93			1698		206.79	0.31	1.11	24.95
4/27/95	4(B)		13.4		3.40	2200			713	940	0	1.33		122.00	5.75			1671		151.40	0.21	0.93	19.65
5/31/95	4(B)		13.3		3.40	2200			627	920	0	1.29		107.00	4.83			1724		147.08	0.21	0.77	17.11
6/21/95	4(B)	4305-774			3.40				1117	1030	0	1.07		194.00	8.16			1716	28.0	0.00	0.00	0.00	0.00
6/21/95	4(B)		12.9		3.40	2400			523	990	0	1.31		88.00	5.75			1725		153.51	0.20	0.89	13.65
7/25/95	4(B)		13.1		3.60	2200			537	1050	0	1.18		92.00	5.34			2079		165.34	0.19	0.84	14.49
8/28/95	4(B)		9.9		3.50	2600			659	1300	0	1.52		113.00	5.68			2133		154.70	0.18	0.68	13.45
9/20/95	4(B)		7.1		3.20	2600			741	1210	0	1.32		125.00	5.67			2105		103.26	0.11	0.48	10.67
9/26/95	4(B)	4305-881			3.40				1149	1210	0	1.00		200.00	7.60			1640	3.0	0.00	0.00	0.00	0.00
3/14/96	4(B)		11.0		3.30	2400			1212	1400	0	1.51		210.00	8.21			1997		185.11	0.20	1.09	27.77
3/29/96	4(B)	4305-015			4.60				37	62	0	0.50		5.97	0.46			77	3.0	0.00	0.00	0.00	0.00
4/22/96	4(B)		11.2		3.30	2200			1410	1300	0	1.57		246.00	6.61			1811		175.01	0.21	0.89	33.12
6/21/96	4(B)		13.5		3.30	2200			772	1050	0	1.17		131.00	8.38			1849		170.38	0.19	1.36	21.26
6/28/96	4(B)	4305-153			3.40				1061	1164	0	1.03		184.00	7.76			1920	3.0	0.00	0.00	0.00	0.00
7/31/96	4(B)		13.2		3.20	2400			994	730	0	1.28		170.00	7.38			1812		115.82	0.20	1.17	26.97
8/26/96	4(B)		9.3		3.30	2200			976	800	0	1.44		168.00	7.04			1936		89.43	0.16	0.79	18.78
9/30/96	4(B)	4305-236	15.4		3.30				1074	1244	0	1.05		186.00	6.45			1865	32.0	230.27	0.19	1.19	34.43
9/30/96	4(B)		15.4		3.40	2400			1143	840	0	1.29		199.00	6.97			2040		155.49	0.24	1.29	36.84
10/25/96	4(B)		18.0		3.30	2400			846	650	0	0.99		145.00	6.20			1686		140.63	0.21	1.34	31.37
11/22/96	4(B)		22.1		3.30	2200			707	600	0	1.10		120.00	6.20			1707		159.39	0.29	1.65	31.88
12/18/96	4(B)		25.0		2.50	2200			822	130	0	1.28		117.00	5.85			1609		39.07	0.38	1.76	35.16
1/16/97	4(B)		18.8		3.40	2400			1380	700	0	1.12		242.00	6.00			1613		158.18	0.25	1.36	54.69
2/24/97	4(B)		16.6		3.40	2200			728	700	0	1.39		124.00	7.90			1658		139.67	0.28	1.58	24.74
3/12/97	4(B)		24.5		3.30	2400			624	770	0	1.60		105.00	5.97			1621		226.76	0.47	1.76	30.92
4/16/97	4(B)		18.9		3.40	2400			723	1600	0	1.14		124.00	5.34			1685		363.48	0.26	1.21	28.17
5/28/97	4(B)		13.8		3.40	2400			849	970	0	1.18		146.00	7.50			1786		160.90	0.20	1.24	24.22
6/16/97	4(B)		16.6		3.40	2200			864	900	0	1.08		148.00	9.70			1749		179.58	0.22	1.94	29.53
6/24/97	4(B)	4339-892			5.80				30	14	0	2.02		4.06	1.28			77	38.0	0.00	0.00	0.00	0.00



WATER QUALITY DATA SUMMARY																							
Ebensburg Power			SMP 11880201																				
Blacklick Township			Cambria County																				
Description-discharge			Fig 4 MP# 36																				
			Latitude 40-29-15		Longitude 78-45-34																		
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)
7/25/97	4(B)		6.4		3.10	2000		1152	900	0	0.92		197.00	7.50			1546			69.24	0.07	0.58	15.15
8/22/97	4(B)		7.1		3.50	2000		693	300	0	0.77		119.00	7.30			1351			25.60	0.07	0.62	10.16
9/25/97	4(B)		4.4		3.50	2000		567	690	0	0.73		97.00	5.30			1519		4.0	36.49	0.04	0.28	5.13
10/29/97	4(B)		3.6		3.30	2000		549	610	0	0.66		92.20	5.30			1339			26.62	0.03	0.23	4.02
11/21/97	4(B)		12.7		3.60	2400		567	1300	0	1.04		97.00	6.70			2061			198.45	0.16	1.02	14.81
12/18/97	4(B)		13.3		3.20	2400		557	1110	0	1.35		92.00	5.80			1799			177.45	0.22	0.93	14.71
1/19/98	4(B)		15.8		3.60	2400		572	1120	0	1.37		98.00	5.60			1779			212.71	0.26	1.06	18.61
2/23/98	4(B)		14.9		3.50	2400		671	990	0	1.75		115.00	5.60			1677			177.31	0.31	1.00	20.60
3/26/98	4(B)		18.8		3.40	2600		763	1510	0	2.28		130.00	7.70			2457			341.22	0.52	1.74	29.38

WATER QUALITY DATA SUMMARY																						
Ebensburg Power		SMP 11880201																				
Blacklick Township		Cambria County																				
Description-discharge		Latitude 40-29-17 Longitude 78-45-33																				
Sample	Monitoring	Sample			Specific	Temp.	Total Acidity	Net Acidity	Total	Total	Ferrous	Total	Total	Total	Total	Total	Total	Susp.	Acid	Fe	Mn	Al
Date	Point	Number	Flow	pH	Conduct.	(field)	(calculated)	(lab)	Alkalinity	Fe	Fe	Al	Mn	Mg	Ca	Sulfates	Hardness	Solids	Loading	Loading	Loading	Loading
			(gpm)	(field)	(umhos/cm)	(deg. C)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
7/14/88	6		0.2	3.22	2400	nd	1883	2660	0	3.80		328.00	9.65			3258		5.0	4.80	0.01	0.02	0.59
7/14/88	6		0.2	3.10	2800		1623	2350	0	3.03		278.60	13.90			3210		14.0	4.24	0.01	0.03	0.50
9/21/88	6		0.2	3.10	760		270	324	0	6.00		36.20	6.92			570		3.0	0.66	0.01	0.01	0.07
10/10/88	6		0.2	3.00	1600		728	3000	0	10.70		113.20	10.90			1465		2.8	6.13	0.02	0.02	0.23
11/3/88	6		0.0	3.20	1400		809	1020	0	7.86		133.30	8.17			1323		2.0	0.12	0.00	0.00	0.02
1/9/89	6		0.2	3.30	1000		567	770	0	3.79		93.80	5.55			1083		3.0	2.04	0.01	0.01	0.25
2/1/89	6		0.5	3.20	1200		905	890	0	3.89		153.10	6.05			1175			5.03	0.02	0.03	0.86
3/7/90	6	4305-968	6.0	3.00			1582	1672	0	3.62		271.00	8.22			846		2.0	120.58	0.26	0.59	19.54
5/18/90	6	4305-172		3.20			1327	1322	0	19.90		220.00	9.93			1872		381.0	nd	nd	nd	nd
7/31/90	6		3.6	3.20	2000		2077	1700	0	3.61		362.30	10.80			2488			73.56	0.16	0.47	15.68
8/28/90	6		2.1	3.20	2200		1542	2070	0	3.73		265.80	11.80			2795			52.25	0.09	0.30	6.71
9/11/90	6	4305-409	0.8	3.20			1936	1866	0	3.07		336.00	14.50			2652		8.0	16.82	0.03	0.13	3.03
9/26/90	6		2.9	3.10	2200		1385	1880	0	4.00		236.00	12.00			2627			65.53	0.14	0.42	8.23
10/17/90	6	4305-512	1.0	3.20			1950	1818	0	3.81		339.00	12.40			2232		12.0	21.85	0.05	0.15	4.07
10/25/90	6		2.8	3.20	2200		1866	2090	0	6.14		323.50	10.10			2795			70.34	0.21	0.34	10.89
11/20/90	6		3.0	3.10	2000		1604	1590	0	3.64		275.90	10.90			2459			57.34	0.13	0.39	9.95
12/20/90	6		3.4	3.30	1800		1310	1560	0	2.66		226.70	9.07			2133			63.75	0.11	0.37	9.26
1/15/91	6		2.6	3.10	2400		1203	2210	0	3.35		204.80	8.28			2775			69.07	0.10	0.26	6.40
2/7/91	6	4305-715		3.30			1541	1756	0	2.06		269.00	7.68			894		4.0	nd	nd	nd	nd
2/22/91	6		6.4	3.10	1200		1296	1600	0	2.93		222.20	6.54			2156			123.08	0.23	0.50	17.09
3/25/91	6		9.0	3.20	1800		1118	1550	0	2.44		192.30	5.45			2156			167.68	0.26	0.59	20.80
4/18/91	6		6.7	3.00	2200		1239	1670	0	2.96		209.90	7.15			2184			134.49	0.24	0.58	16.90
5/14/91	6		4.0	3.20	2600		938	1800	0	3.56		158.50	8.32			2515			86.54	0.17	0.40	7.62
6/17/91	6		2.1	3.10	2400		1486	2400	0	6.46		253.20	11.10			2903			60.58	0.16	0.28	6.39
7/24/91	6		1.0	3.10	3400		1825	2280	0	3.58		315.20	12.10			3058		10.0	27.41	0.04	0.15	3.79
8/23/91	6		0.5	3.10	2600		1470	1680	0	2.62		253.00	8.77			2236			10.10	0.02	0.05	1.52
9/27/91	6		0.7	3.10	18		613	760	0	2.53		98.60	9.72			1098			6.39	0.02	0.08	0.83
12/9/91	6	4305-107		3.70			266	340	0	2.11		43.50	4.76			588		2.0	nd	nd	nd	nd
12/12/91	6		0.6	3.40	2000		540	840	0	2.42		88.50	11.50			1386		28.0	6.06	0.02	0.08	0.64
1/23/92	6		2.3	3.10	2000		960	1380	0	3.19		161.00	8.85			1948			38.15	0.09	0.24	4.45
2/11/92	6	4305-226		3.20			1617	1514	0	4.11		279.00	12.10			2134		8.0	nd	nd	nd	nd
2/11/92	6		2.0	3.20	2200		870	1500	0	3.21		146.00	9.69			1966			36.06	0.08	0.23	3.51
3/25/92	6		3.7	3.20	2400		774	1410	0	2.92		130.00	6.54			2156			62.71	0.13	0.29	5.78
4/29/92	6		3.0	3.30	2200		768	1530	0	2.44		130.00	7.15			2099		10.0	55.17	0.09	0.26	4.69
5/20/92	6		3.2	3.40	2200		824	1530	0	2.79		141.00	6.62			1970			58.85	0.11	0.25	5.42
6/18/92	6		1.6	3.10	2400		978	2040	0	2.43		165.00	7.79			2371		30.0	39.23	0.05	0.15	3.17
7/29/92	6		1.3	3.20	2200		683	1000	0	3.15		113.00	8.09			1509			15.63	0.05	0.13	1.77
8/24/92	6		1.2	3.20	2200		677	1100	0	2.66		112.00	8.53			2577			15.87	0.04	0.12	1.62
9/18/92	6	4305-542	2.0	3.20			1153	1160	0	2.93		197.00	9.64			1716		2.0	27.89	0.07	0.23	4.74
9/23/92	6		0.9	3.20	2000		696	1310	0	2.36		116.00	7.01			1735			14.17	0.03	0.08	1.25
10/21/92	6		1.1	3.20	2200		837	1470	0	2.84		141.00	7.24			2286		4.0	19.44	0.04	0.10	1.86
11/20/92	6		0.7	3.10	1800		709	1060	0	3.05		117.00	5.79			1568			8.92	0.03	0.05	0.98
12/18/92	6	4339-033		3.30			1122	1034	0	2.44		193.00	9.13			918		3.0	nd	nd	nd	nd
12/21/92	6		1.3	2.80	2000		636	940	0	2.44		97.00	6.16			1993			14.69	0.04	0.10	1.52
1/18/93	6		6.2	3.20	2400		1076	2080	0	3.48		184.00	6.11			3017			155.01	0.26	0.46	13.71
2/25/93	6		2.5	3.20	2200		726	1380	0	3.36		121.00	6.66			2272			41.47	0.10	0.20	3.64
5/21/93	6		5.6	3.30	1200		820	1310	0	3.17		140.00	4.25			1877			88.18	0.21	0.29	9.42
6/28/93	6	4305-861		3.20			1544	1474	0	3.77		267.00	9.53			1728			nd	nd	nd	nd
6/28/93	6		3.0	3.40	2000		711	1840	0	3.94		119.00	10.10			2472		6.0	66.35	0.14	0.36	4.29
7/29/93	6		1.7	3.20	2000		890	1550	0	3.88		150.00	7.30			2204		102.0	31.67	0.08	0.15	3.07
8/18/93	6		1.5	3.20	1400		821	1410	0	3.89		137.00	9.10			2182			25.42	0.07	0.16	2.47
9/30/93	6	4305-939		3.30			700	684	0	2.15		118.00	7.07			986		4.0	nd	nd	nd	nd

Fig 4 MP# 37



WATER QUALITY DATA SUMMARY																							
Ebensburg Power			SMP 11880201																				
Blacklick Township			Cambria County																				
Description-discharge			Latitude 40-29-17 Longitude 78-45-33 Fig 4 MP# 37																				
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)
9/30/93	6		1.4	3.30	1400			367	770	0	2.34		59.00	4.10			1328			12.96	0.04	0.07	0.99
10/27/93	6		1.4	3.30	1600			723	1320	0	3.78		121.00	8.00			2252			22.21	0.06	0.13	2.04
11/15/93	6		1.3	3.20	1400			765	1260	0	3.04		128.00	7.30			1896			19.69	0.05	0.11	2.00
12/15/93	6		5.3	3.20	1440			728	1440	0	3.13		122.00	5.40			2124		4.0	91.74	0.20	0.34	7.77
1/26/94	6		2.3	3.30	1600			640	1440	0	3.24		107.00	6.10			2169			39.81	0.09	0.17	2.96
2/28/94	6		2.1	3.30	1400			534	1080	0	3.41		88.00	5.40			1597			27.26	0.09	0.14	2.22
3/30/94	6	4305-135		3.20				1611	1544	0	3.32		280.00	6.84			2121		22.0	nd	nd	nd	nd
3/30/94	6		2.2	3.30	1800			848	1630	0	3.43		144.00	6.70			2504			43.10	0.09	0.18	3.81
4/26/94	6		7.1	3.10	1800			737	1330	0	3.69		122.00	4.70			2281			113.50	0.31	0.40	10.41
5/31/94	6		1.0	3.20	1400			676	1400	0	4.04		112.00	5.60			2320			16.83	0.05	0.07	1.35
6/22/94	6		1.7	3.10	1600			613	1240	0	4.11		99.00	6.50			2235			25.34	0.08	0.13	2.02
7/27/94	6		0.5	3.20	1400			730	1490	0	5.00		121.00	6.50			2409			8.95	0.03	0.04	0.73
9/28/94	6		2.1	3.10	1400			1007	1120	0	3.21		170.00	7.40			1884			28.27	0.08	0.19	4.29
9/30/94	6	4305-378		3.30				1061	1218	0	3.04		182.00	8.29			1366		3.0	nd	nd	nd	nd
10/31/94	6		0.6	3.20	2400			583	980	0	2.93		96.00	5.30			1988			7.07	0.02	0.04	0.69
11/22/94	6		0.7	3.50	2000			483	700	0	2.42		81.00	5.80			1306			5.89	0.02	0.05	0.68
12/27/94	6		2.7	3.50	2400			590	900	0	3.02		100.00	5.47			1631			29.21	0.10	0.18	3.25
2/27/95	6		2.3	3.40	2200			426	840	0	2.63		70.00	5.17			1342			23.22	0.07	0.14	1.94
3/30/95	6		2.5	3.30	2400			493	820	0	2.77		81.00	5.64			1439			24.64	0.08	0.17	2.43
4/27/95	6		1.7	3.30	2200			582	750	0	2.79		97.00	5.60			1480			15.33	0.06	0.11	1.98
5/31/95	6		1.8	3.30	2000			486	710	0	2.77		80.00	4.73			1432			15.36	0.06	0.10	1.73
6/21/95	6	4305-776		3.40				832	808	0	2.22		142.00	8.78			922		30.0	nd	nd	nd	nd
6/21/95	6		1.6	3.30	2400			397	820	0	2.62		64.00	5.00			1414			15.77	0.05	0.10	1.23
7/25/95	6		1.6	3.40	2000			438	680	0	2.98		72.00	5.39			1862			13.08	0.06	0.10	1.38
8/28/95	6		0.9	3.30	2400			621	1040	0	2.48		104.00	5.82			1872			11.25	0.03	0.06	1.13
9/20/95	6		0.4	3.10	2400			599	970	0	1.56		98.00	5.53			1766			4.66	0.01	0.03	0.47
10/24/95	6		0.8	3.20	2200			582	960	0	2.75		96.00	4.90			1977			9.23	0.03	0.05	0.92
11/22/95	6		1.4	3.40	2400			509	800	0	2.62		85.00	5.10			1426			13.46	0.04	0.09	1.43
12/21/95	6		2.4	3.10	2000			613	1030	0	2.77		100.00	5.20			1781			29.71	0.08	0.15	2.88
1/29/96	6		1.1	3.30	2200			797	890	0	2.56		135.00	7.50			1506			11.77	0.03	0.10	1.78
2/9/96	6		1.3	3.40	2000			937	900	0	2.30		160.00	11.50			1502			14.06	0.04	0.18	2.50
3/14/96	6		6.0	3.20	2200			953	1080	0	2.21		162.00	8.10			1613			77.89	0.16	0.58	11.68
3/29/96	6	4305-013		3.20				931	1074	0	1.49		159.00	5.84			1585		3.0	nd	nd	nd	nd
4/22/96	6		2.7	3.20	2200			1074	1050	0	2.55		184.00	6.80			1562			34.08	0.08	0.22	5.97
5/20/96	6		2.2	3.30	2200			317	680	0	2.26		49.00	7.60			1524			17.98	0.06	0.20	1.30
6/21/96	6		1.8	3.20	2000			593	760	0	2.41		97.00	8.40			1527			16.44	0.05	0.18	2.10
7/31/96	6		1.7	3.10	2200			711	580	0	2.55		117.00	7.60			1491			11.85	0.05	0.16	2.39
8/26/96	6		1.0	3.20	2000			726	900	0	2.96		121.00	7.10			1854			10.82	0.04	0.09	1.45
9/30/96	6	4305-235	9.9	3.20				772	912	0	2.22		130.00	6.10			1499		26.0	108.86	0.26	0.73	15.52
9/30/96	6		2.0	3.30	2200			761	600	0	2.46		129.00	6.55			1597			14.42	0.06	0.16	3.10
10/25/96	6		2.2	3.20	2200			554	450	0	2.23		91.00	5.90			1330			11.90	0.06	0.16	2.41
11/22/96	6		3.2	3.30	2000			526	480	0	2.23		87.00	5.80			1370			18.46	0.09	0.22	3.35
12/18/96	6		5.3	2.30	2000			805	600	0	2.32		97.00	5.80			1355			38.22	0.15	0.37	6.18
1/16/97	6		2.9	3.30	2200			962	700	0	2.43		165.00	6.70			1496			24.40	0.08	0.23	5.75
2/24/97	6		2.4	3.30	2000			464	430	0	2.76		75.00	7.90			1158			12.40	0.08	0.23	2.16
3/12/97	6		4.6	3.20	2000			538	600	0	2.75		88.00	5.40			1335			33.18	0.15	0.30	4.87
3/31/97	6	4305-392	7.0	3.30				719	774	0	1.60		122.00	5.97			1552		3.0	65.12	0.13	0.50	10.27
4/16/97	6		2.8	3.30	2200			553	1000	0	2.14		92.00	5.60			1400			33.66	0.07	0.19	3.10
5/28/97	6		1.6	3.30	2200			661	710	0	2.30		110.00	9.70			1486			13.65	0.04	0.19	2.12
6/16/97	6		2.1	3.30	2000			626	300	0	2.27		104.00	9.10			1437		2.0	7.57	0.06	0.23	2.63
7/25/97	6		0.6	3.00	2000			799	200	0	2.14		131.00	8.30			1343			1.44	0.02	0.06	0.94
8/22/97	6		0.7	3.40	1800			475	490	0	1.59		79.00	6.20			949			4.12	0.01	0.05	0.66

WATER QUALITY DATA SUMMARY																							
Ebensburg Power		SMP 11880201																					
Blacklick Township		Cambria County																					
Description-discharge		Fig 4 MP# 37																					
		Latitude 40-29-17					Longitude 78-45-33																
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)
9/25/97	6		0.2	3.30	2000			453	590	0	2.63		74.00	5.00			1288		6.0	1.42	0.01	0.01	0.18
10/29/97	6		0.1	3.20	1600			334	430	0	2.00		52.00	4.60			868			0.67	0.00	0.01	0.08
12/18/97	6		0.1	3.40	2400			488	950	0	11.50		76.00	8.10			1735			1.48	0.02	0.01	0.12
21/6/88	6		0.3	3.30	1200			614	1000	0	3.54		102.00	6.60			1352			3.25	0.01	0.02	0.33



WATER QUALITY DATA SUMMARY																																
Ebensburg Power																		SMP 11880201														
Blacklick Township																		Cambria County														
Description-SBBC upstream																				Latitude		40-29-27		Longitude		78-45-14			Fig 4 MP#		38	
Sample Date	Monitoring Point	Sample Number	Flow (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)									
9/22/87	25				6.70	450	nd	2.54		75	0.53	0.10	0.30				830		12	0.00	0.00	0.00	0.00									
10/27/87	25				6.50	480		2.57		105	0.69	0.10	0.08				193		2	0.00	0.00	0.00	0.00									
3/29/88	25				6.31	300		2.23		45	0.49	0.10	0.18				170		4	0.00	0.00	0.00	0.00									
6/14/88	25				6.82	700		3.32		83	0.40	0.30	0.31				49		11	0.00	0.00	0.00	0.00									
7/14/88	25				7.10	260		15.97	18	30	3.09	1.00	1.15				74		157	0.00	0.00	0.00	0.00									
7/14/88	25				6.82	620		32.00		40	6.14	2.40	1.17				71		6	0.00	0.00	0.00	0.00									
9/21/88	25				6.20	100		7.87		12	0.77	1.00	0.11				35		33	0.00	0.00	0.00	0.00									
12/6/88	25				6.70	100		16.07		12	2.54	1.60	0.18				14		194	0.00	0.00	0.00	0.00									
3/29/89	25				6.60	100		9.87	6	8	1.33	1.10	0.09				22		38	0.00	0.00	0.00	0.00									
6/5/89	25				7.00	100		8.23		18	0.90	1.00	0.13				11		29	0.00	0.00	0.00	0.00									
9/21/89	25				6.80	140		64.95	12	30	6.98	8.10	0.61				52		340	0.00	0.00	0.00	0.00									
12/21/89	25				6.90	160		7.79		26	0.65	1.00	0.26				40		19	0.00	0.00	0.00	0.00									
3/21/90	25				6.80	100		6.89		14	0.39	1.00	0.15				25		2	0.00	0.00	0.00	0.00									
10/17/90	25	4305514			6.70			6.88		24	0.63	0.89	0.14				57		14	0.00	0.00	0.00	0.00									
12/20/90	25				6.60	100		7.54	14	8	0.69	1.00	0.06				24		18	0.00	0.00	0.00	0.00									
3/25/91	25				7.00	100		6.99	2	10	0.46	1.00	0.10				52			0.00	0.00	0.00	0.00									
6/17/91	25				7.40	160		16.43	14	26	3.43	1.00	0.90				43		22	0.00	0.00	0.00	0.00									
9/27/91	25				7.70	520		10.37	36	50	0.98	1.00	1.19				128		46	0.00	0.00	0.00	0.00									
12/12/91	25				6.60	200		6.09	4	12	0.15	1.00	0.06				51		40	0.00	0.00	0.00	0.00									
3/25/92	25				6.90	260		6.16	4	12	0.15	1.00	0.10				48			0.00	0.00	0.00	0.00									
6/18/92	25				6.70	240		9.07	22	36	1.05	1.00	0.37				31		24	0.00	0.00	0.00	0.00									
9/22/92	25				6.80	220		11.02	18	36	1.73	1.00	0.44				12		26	0.00	0.00	0.00	0.00									
12/18/92	25	4339037			6.50			3.68		22	0.69	<.5	0.23				49		13	0.00	0.00	0.00	#VALUE!									
12/21/92	25				6.30	240		7.14	6	18	0.47	1.00	0.16				29			0.00	0.00	0.00	0.00									
3/24/93	25				6.60	200		7.99	12	16	0.81	1.00	0.13				56		14	0.00	0.00	0.00	0.00									
6/28/93	25				7.10	200		16.01	4	44	2.73	1.38	0.54				26		22	0.00	0.00	0.00	0.00									
9/30/93	25				7.40	200		9.94	10	26	1.09	1.20	0.18				58		52	0.00	0.00	0.00	0.00									
12/15/93	25				6.90	140		6.93	4	12	0.41	1.00	0.14				70			0.00	0.00	0.00	0.00									
3/30/94	25				6.70	140		6.51	2	10	0.30	1.00	0.07				35			0.00	0.00	0.00	0.00									
6/22/94	25				6.70	180		11.62	2	44	1.68	1.00	0.84				37		0	0.00	0.00	0.00	0.00									
9/28/94	25				7.00	140		10.01	20	32	1.51	1.00	0.21				38			0.00	0.00	0.00	0.00									
12/23/94	25	4305517			6.70			2.92		24	0.46	<.5	0.16				<20		<3	0.00	0.00	0.00	#VALUE!									
12/27/94	25				6.90	170		7.29		18	0.51	1.00	0.19				30			0.00	0.00	0.00	0.00									
3/30/95	25				6.90	200		7.33	30	32	0.52	1.00	0.20				25			0.00	0.00	0.00	0.00									
6/21/95	25				6.80	220		5.95	16	34	1.55	<.1	0.21				25			0.00	0.00	0.00	#VALUE!									
9/21/95	25				6.70	260		6.67	28	48	1.58	<.1	0.56				35		6	0.00	0.00	0.00	#VALUE!									
12/21/95	25				7.00	160		1.91	10	16	0.15	<.1	0.06				31			0.00	0.00	0.00	#VALUE!									
12/28/95	25	4305940			6.20			4.76		24	1.04	<.5	0.30				26		<3	0.00	0.00	0.00	#VALUE!									
3/14/96	25				6.80	200		6.34	6	12	0.24	1.00	0.07				23			0.00	0.00	0.00	0.00									
6/22/96	25				6.80	160		2.04	6	18	0.15	<.1	0.13				23			0.00	0.00	0.00	#VALUE!									
9/30/96	25				6.70	120		2.57	12	6	0.24	<.1	0.29				44			0.00	0.00	0.00	#VALUE!									
12/18/96	25				6.70	140		2.58	6	12	0.39	<.1	0.07				23			0.00	0.00	0.00	#VALUE!									
3/12/97	25				6.60	180		2.47	4	12	0.33	<.1	0.10				64			0.00	0.00	0.00	#VALUE!									
6/16/97	25				6.90	160		4.53	18	24	1.09	<.1	0.11				22			0.00	0.00	0.00	#VALUE!									
6/24/97	25	4339889			6.60			6.53		38	1.69	<.5	0.32				31		8	0.00	0.00	0.00	#VALUE!									
9/25/97	25				6.80	2600		7.72	30	40	1.75	<.1	0.89				48			0.00	0.00	0.00	#VALUE!									
12/18/97	25				7.30	220		3.04	4	16	0.49	<.1	0.18				15			0.00	0.00	0.00	#VALUE!									
3/26/98	25				7.70	200		2.93	4	10	0.49	<.1	0.12				54			0.00	0.00	0.00	#VALUE!									

WATER QUALITY DATA SUMMARY																								
Ebensburg Power			SMP 11960202																					
Blacklick Township			Cambria County																					
Description-discharge			Fig. 4 MP# 39																					
Sample	Monitoring	Sample			Specific	Temp.	Total Acidity	Net Acidity	Total	Total	Ferrous	Total	Total	Total	Total	Total	Total	Susp.	Acid	Fe	Mn	Al		
Date	Point	Number	FLOW	pH	pH	Conduct.	(field)	(calculated)	(lab)	Alkalinity	Fe	Fe	Al	Mn	Mg	Ca	Sulfates	Hardness	Solids	Loading	Loading	Loading	Loading	
			(gpm)	(field)	(lab)	(umhos/cm)	(deg. C)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
04/19/96	R2-A				2.60	6400	nd	4589	4630	0	71.00		737.0	94.70			7543			nd	nd	nd	nd	
05/17/96	R2-A		12.4		2.80	5200		2628	2930	0	35.00		423.0	55.60			5184		8.0	436.71	5.22	8.29	63.05	
06/21/96	R2-A				2.70	5200		2640	3020	0	31.70		422.0	59.10			6087		30.0	nd	nd	nd	nd	
07/26/96	R2-A				2.50	6000		2917	2580	0	34.80		459.0	61.60			5929			nd	nd	nd	nd	
08/23/96	R2-A		3.8		2.70	7200		3582	5000	0	33.30		585.0	75.80			7900			228.38	1.52	3.46	26.72	
09/30/96	R2-A		12.4		2.80	4800		2418	1950	0	26.90		393.0	43.90			5211			290.64	4.01	6.54	58.58	
10/25/96	R2-A		12.4		2.70	5200		1704	1810	0	31.80		259.0	42.70			4711			269.78	4.74	6.36	38.60	
11/22/96	R2-A		12.4		2.80	5000		2132	480	0	47.40		331.0	46.40			5859			71.54	7.06	6.92	49.33	
12/18/96	R2-A		16.7		2.10	5000		2663	2550	0	57.90		364.0	47.90			4893			511.87	11.62	9.62	73.07	
01/16/97	R2-A		12.4		2.90	6000		6870	4200	0	98.00		1140.0	110.00			6866			626.00	14.61	16.40	169.91	
02/24/97	R2-A		16.7		2.70	4800		2346	2200	0	86.00		336.0	80.00			5027			441.61	17.26	16.06	67.45	
03/12/97	R2-A		12.4		2.50	5000		1935	2620	0	47.30		283.0	42.00			5473			390.51	7.05	6.26	42.18	
04/16/97	R2-A		6.1		2.80	6000		3009	3700	0	43.50		486.0	60.10			6398			269.07	3.16	4.37	35.34	
05/28/97	R2-A		21.7		2.80	5000		1888	2260	0	28.70		288.0	71.00			4397			589.48	7.49	18.52	75.12	
06/16/97	R2-A		8.9		2.80	5600		3052	3700	0	50.20		483.0	83.00			6560			395.37	5.36	8.87	51.61	
07/25/97	R2-A		3.8		2.50	5200		7603	5200	0	51.00		996.0	970.00			7353			239.39	2.35	44.66	45.85	
08/22/97	R2-A		8.9		2.90	5200		2604	3200	0	42.30		413.0	71.00			5278			341.94	4.52	7.59	44.13	
09/25/97	R2-A		3.8		2.80	5600		2025	3700	0	38.30		313.0	56.00			6872		8.0	170.34	1.76	2.58	14.41	
09/25/97	R2-A	4305589			2.90			3055	3898	0	34.50		500.0	64.50			5426		16.0	nd	nd	nd	nd	
10/29/97	R2-A		3.8		2.80	5600		1999	3480	0	33.10		313.0	49.30			7401			160.21	1.52	2.27	14.41	
11/21/97	R2-A		12.4		3.00	4200		1598	3200	0	34.70		251.0	32.00			4997			476.95	5.17	4.77	37.41	
12/18/97	R2-A		12.4		2.70	5400		1827	2930	0	33.10		283.0	35.00			5375			436.71	4.93	5.22	42.18	
01/19/98	R2-A		12.4		2.90	4800		1761	820	0	36.30		276.0	35.70			5823			122.22	5.41	5.32	41.14	
02/23/98	R2-A		27.5		2.90	4400		1482	2240	0	40.50		226.0	29.00			3851			740.43	13.39	9.59	74.70	
03/26/98	R2-A		12.4		3.20	5800		1757	3700	0	54.00		267.0	52.00			6373		10.0	551.48	8.05	7.75	39.80	
03/31/98	R2-A	4305867	7.6		2.90			2941	3538	0	30.90		485.0	53.30			6319		30.0	323.20	2.82	4.87	44.31	



WATER QUALITY DATA SUMMARY																									
Ebensburg Power			SMP 11960202																						
Blacklick Township			Cambria County																						
Description-discharge			Fig. 4 MP# 40																						
			Latitude 40-29-24					Longitude 78-45-20																	
Sample Date	Monitoring Point	Sample Number	FLOW (gpm)	pH (field)	pH (lab)	Specific Conduct. (umhos/cm)	Temp. (field) (deg. C)	Total Acidity (calculated) (mg/l)	Net Acidity (lab) (mg/l)	Total Alkalinity (mg/l)	Total Fe (mg/l)	Ferrous Fe (mg/l)	Total Al (mg/l)	Total Mn (mg/l)	Total Mg (mg/l)	Total Ca (mg/l)	Total Sulfates (mg/l)	Total Hardness (mg/l)	Susp. Solids (mg/l)	Acid Loading (lbs/day)	Fe Loading (lbs/day)	Mn Loading (lbs/day)	Al Loading (lbs/day)		
04/19/96	R2-B		0.4		3.00	3400	nd	855.44	760	0	19.00		122.80	39.20			2460			3.93	0.10	0.20	0.63		
05/17/96	R2-B		2.2		3.10	3200		339.93	900	0	11.30		38.10	31.90			2368		4.0	23.69	0.30	0.84	1.00		
06/21/96	R2-B				2.90	3000		440.67	650	0	8.54		54.80	27.60			2154			nd	nd	nd	nd		
07/26/96	R2-B				2.70	4200		967.01	850	0	14.70		136.80	36.90			3395		6.0	nd	nd	nd	nd		
08/23/96	R2-B		0.4		2.90	3800		971.00	1200	0	15.80		143.00	38.60			3352			6.20	0.08	0.20	0.74		
09/30/96	R2-B		2.2		3.10	3000		664.76	580	0	11.60		98.10	26.50			2289			15.27	0.31	0.70	2.58		
10/25/96	R2-B		3.8		3.00	3200		765.68	600	0	8.70		116.00	25.90			2200			27.62	0.40	1.19	5.34		
11/22/96	R2-B		2.2		3.10	3400		760.67	724	0	13.40		112.60	32.20			2762		4.0	19.06	0.35	0.85	2.96		
12/18/96	R2-B		3.8		2.40	3200		932.01	850	0	11.20		117.20	28.60			2644			39.13	0.52	1.32	5.40		
02/24/97	R2-B		6.1		3.10	2600		770.13	550	0	11.50		88.50	113.80			1757			40.00	0.84	8.28	6.44		
03/12/97	R2-B		2.2		2.70	3200		811.29	800	0	14.40		112.30	26.70			2462		56.0	21.06	0.38	0.70	2.96		
04/16/97	R2-B		2.2		3.10	4200		1252.89	700	0	20.90		194.00	42.70			3837		254.0	18.43	0.55	1.12	5.11		
05/28/97	R2-B		0.8		2.90	3400		844.45	1020	0	9.10		125.00	34.00			2616		4.0	10.18	0.09	0.34	1.25		
06/16/97	R2-B		2.2		3.00	4000		1835.68	1200	0	19.10		298.00	42.00			3644		82.0	31.59	0.50	1.11	7.84		
07/25/97	R2-B		0.4		2.80	3200		2621.36	1200	0	14.20		234.00	660.00			3680			6.20	0.07	3.41	1.21		
08/22/97	R2-B		2.2		4.20	3000		371.51	366	0	3.77		59.70	14.30			2084		28.0	9.63	0.10	0.38	1.57		
09/25/97	R2-B		0.4		3.80	4000		897.11	994	0	104.00		104.00	17.00			3727		34.0	5.14	0.54	0.09	0.54		
09/25/97	R2-B	4305590			3.90			1019.72	950	0	11.50		170.00	20.10			3085		42.0	nd	nd	nd	nd		
10/29/97	R2-B		1.1		4.00	3600		566.69	916	0	18.20		86.20	18.20			3110		26.0	11.78	0.23	0.23	1.11		
11/21/97	R2-B		2.2		3.20	3000		637.15	800	0	14.90		96.80	14.90			2752		2.0	21.06	0.39	0.39	2.55		
01/19/98	R2-B		2.2		3.80	2800		301.03	442	0	10.10		44.50	10.10			2123		10.0	11.64	0.27	0.27	1.17		
02/23/98	R2-B		2.2		3.50	3000		447.64	480	0	12.00		67.90	12.00			1931			12.64	0.32	0.32	1.79		
03/26/98	R2-B		0.4		3.70	3600		454.02	680	0	18.40		64.90	18.40			2708		14.0	3.51	0.10	0.10	0.34		
03/31/98	R2-B	4305866	0.4		3.40			695.09	746	0	13.30		108.00	21.20			3053		6.0	3.59	0.06	0.10	0.52		