

Wadesville Mine Water Data - Daily Log Summary
(Mine Pool Level = Distance from Ground Level to Water Surface)

Date	Totalized Flow (Million Gallons)	Daily Flow (MG)	Water Temp. (°F)	pH (std. units)	Dissolved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Mine Pool Level (Ft)
5/13/2004	0.00						
5/14/2004	3.80	3.80	58.2	6.8	5.2	1484	438.0
5/15/2004	9.40	5.60					440.7
5/16/2004	15.31	5.91	57.7	6.9	4.9	1521	440.7
5/17/2004	20.75	5.44	57.1	6.8	4.4	1470	442.5
5/18/2004	26.65	5.90	57.1	6.8	A 3.4	1425	443.6
5/19/2004	32.71	6.06	57.1	6.8	A 2.2	1390	444.9
5/20/2004	38.05	5.34	57.1	6.7	A 0.6	1343	446.4
5/21/2004	44.58	6.53	57.1	6.8	A 0.3	1344	447.7
5/22/2004	50.51	5.93	57.1	6.9	7.2	1337	449.4
5/23/2004	55.10	4.59	57.1	6.9	6.7	1310	450.9
5/24/2004	60.69	5.59	57.1	6.8	5.8	1305	452.0
5/25/2004	66.81	6.12	57.1	6.9	3.9	1300	453.3
5/26/2004	73.37	6.56	57.1	6.8	A 1.7	1286	454.5
5/27/2004	79.92	6.55	57.1	6.8	B 0.3	1274	455.9
5/28/2004	88.92	8.99	57.1	6.9	5.6	1277	457.1
5/29/2004	94.74	5.82	57.1	6.9	5.8	1267	459.2
5/30/2004	101.54	6.80	57.1	6.8	5.6	1269	460.3
5/31/2004	106.95	5.41	57.1	6.9	4.5	1264	461.3
6/1/2004	113.79	6.84	57.1	6.9	A 2.5	1259	462.3
6/2/2004	120.67	6.88	57.1	6.9	A 1.1	1256	463.7
6/3/2004	127.57	6.90	57.0	6.9	A 2.1	1239	465.2
6/4/2004	135.86	8.30	57.0	6.9	7.9	1243	466.6
6/5/2004	142.60	6.73	57.0	7.0	6.5	1236	468.0
6/6/2004	148.12	5.53	57.0	7.0	A 3.6	1238	469.2
6/7/2004	155.09	6.97	56.9	6.9	A 2.3	1239	470.3
6/8/2004	161.77	6.68	56.9	6.9	A 3.8	1237	471.7
6/9/2004	168.61	6.84	56.9	6.9	A 0.7	1231	472.7
6/10/2004	175.36	6.75	56.9	6.9	A 0.3	1236	473.8
6/11/2004	184.22	8.86	56.9	6.9	A 0.2	1244	475.0
6/12/2004	190.45	6.23	56.9	7.0	6.8	1247	476.5
6/13/2004	195.61	5.16	56.9	6.9	5.5	1250	477.9
6/14/2004	202.45	6.84	56.9	6.9	6.4	1255	478.6
6/15/2004	209.15	6.70	56.9	7.0	5.8	1254	479.8
6/16/2004	215.68	6.53	56.9	6.9	4.6	1254	481.1
6/17/2004	222.22	6.54	56.6	7.0	5.1	1257	482.1
6/18/2004	230.02	7.79	56.9	6.9	5.9	1255	483.2
6/19/2004	236.89	6.87	56.9	6.9	4.7	1254	484.6
6/20/2004	241.85	4.96	56.4	7.0	4.4	1259	485.9
6/21/2004	248.34	6.49	56.9	6.9	4.1	1255	486.7
6/22/2004	254.74	6.40	56.9	6.9	4.2	1258	487.5
6/23/2004	261.17	6.43	56.9	6.9	3.7	1260	488.7

Exelon Nuclear

Date	Totalized Flow (Million Gallons)	Daily Flow (MG)	Water Temp. (°F)	pH (std. units)	Dissolved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Mine Pool Level (Ft)
6/24/2004	268.75	7.58	56.9	6.9	3.4	1262	489.8
6/25/2004	276.07	7.32	56.9	6.9	5.7	1261	490.7
6/26/2004	281.87	5.80	56.9	6.9	5.3	1255	
6/27/2004	286.31	4.44	57.0	6.9	5.4	1261	
6/28/2004	292.71	6.40	56.9	6.9	5.1	1260	
6/29/2004	299.18	6.47	57.0	6.9	5.0	1261	
6/30/2004	305.51	6.34	57.0	7.0	5.4	1234	
7/1/2004	311.77	6.25	57.0	6.9	4.9	1263	
7/2/2004	320.12	8.36	57.0	6.9	5.2	1261	496.0
7/3/2004	325.87	5.75	57.0	6.9	5.0	1263	
7/4/2004	331.28	5.41	57.1	7.0	5.1	1381	
7/5/2004	333.52	2.24	57.3	7.0	5.3	1418	
7/6/2004	338.27	4.75	57.3	6.9	6.6	1407	
7/7/2004	344.72	6.45	57.4	7.1	6.3	1467	
7/8/2004	351.15	6.43	57.5	7.1	6.8	1481	
7/9/2004	358.04	6.89	57.6	7.1	6.3	1493	495.7
7/10/2004	366.14	8.10	57.6	6.9	6.1	1532	496.0
7/11/2004	371.50	5.36	57.7	6.9	6.2	1541	497.7
7/12/2004	372.10	0.60	57.7	6.9	5.9	1532	497.5
7/13/2004	377.94	5.85	57.7	6.9	5.9	1532	
7/14/2004	384.86	6.92	57.7	6.9	5.8	1532	
7/15/2004	391.75	6.89	57.7	6.9	6.4	1532	
7/16/2004	398.26	6.51	58.0	6.9	6.4	1520	496.0
7/17/2004	404.37	6.11	58.0	6.9	6.8	1547	496.4
7/18/2004	410.55	6.18	57.9	6.9	6.4	1550	496.7
7/19/2004	416.94	6.38	57.8	6.9	5.4	1572	497.0
7/20/2004	423.25	6.31	57.8	6.9	5.3	1571	497.7
7/21/2004	429.34	6.09	57.7	6.9	5.4	1555	
7/22/2004	435.34	6.00	57.7	6.9	5.5	1539	499.0
7/23/2004	443.34	8.00	57.7	6.9	5.6	1526	499.6
7/24/2004	448.05	4.71	57.7	6.9	5.5	1516	500.5
7/25/2004	452.63	4.57	57.7	6.9	5.6	1445	500.7
7/26/2004	458.60	5.97	57.8	6.9	5.7	1440	501.3
7/27/2004	464.50	5.90	57.7	6.9	5.4	1452	503.0
7/28/2004	471.24	6.74	57.6	6.4	5.3	1430	504.5
7/29/2004	478.13	6.89	57.5	6.9	5.0	1472	506.1
7/30/2004	486.71	8.58	57.4	6.9	5.0	1423	508.9
7/31/2004	492.84	6.12	57.4	6.8	5.2	1381	510.5
8/1/2004	497.33	4.50	57.3	6.8	4.9	1362	512.1
8/2/2004	503.88	6.55	57.3	6.8	4.6	1350	513.1
8/3/2004	510.11	6.23	57.3	6.8	4.8	1331	514.9
8/4/2004	513.25	3.15	57.2	6.8	4.9	1301	516.1
8/5/2004	518.11	4.86	57.3	6.8	4.4	1355	514.0
8/6/2004	526.80	8.69	57.2	6.8	4.3	1341	515.7
8/7/2004	532.81	6.01	57.2	6.7	4.5	1335	
8/8/2004	537.68	4.87	57.3	6.8	4.4	1296	518.9
8/9/2004	539.63	1.95	57.2	6.7	4.6	1329	520.1

Exelon Nuclear

Date	Totalized Flow (Million Gallons)	Daily Flow (MG)	Water Temp. (°F)	pH (std. units)	Dissolved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Mine Pool Level (Ft)
8/10/2004	545.07	5.44	57.2	6.6	4.3	1244	517.1
8/11/2004 C							
8/12/2004 C							513.8
8/13/2004 C							
8/14/2004 C							
8/15/2004 C							
8/16/2004 C							
8/17/2004	548.17	3.10					
8/18/2004	557.34	9.17	57.7	6.8	6.5	1617	499.5
8/19/2004	565.61	8.27	57.4	6.7	3.4	1483	504.7
8/20/2004	573.43	7.82	57.5	6.7	6.5	1428	506.6
8/21/2004	578.11	4.68	57.5	6.8	6.7	1418	507.2
8/22/2004	581.99	3.88	57.6	6.8	5.2	1432	507.4
8/23/2004	586.57	4.58	57.6	6.8	5.3	1434	507.4
8/24/2004	592.98	6.41	57.7	6.8	5.2	1383	507.4
8/25/2004	599.81	6.82	57.4	6.8	4.8	1450	508.6
8/26/2004	606.63	6.82	57.4	6.8	4.5	1422	509.6
8/27/2004	616.27	9.64	57.4	6.8	4.5	1408	510.4
8/28/2004	622.07	5.80	57.3	6.8	4.7	1383	511.5
8/29/2004	627.42	5.35	57.3	6.7	5.0	1389	512.3
8/30/2004	634.61	7.19	57.3	6.8	4.9	1388	513.1
8/31/2004	641.69	7.08	57.3	6.8	4.4	1390	514.1
9/1/2004	648.68	6.99	57.3	6.8	4.5	1389	515.2
9/2/2004	655.70	7.02	57.3	6.8	4.5	1389	516.2
9/3/2004	665.30	9.59	57.3	6.8	4.4	1393	517.1
9/4/2004	671.25	5.95	57.5	6.7	4.7	1445	515.4
9/5/2004	678.87	7.63	57.9	6.8	4.7	1508	515.1
9/6/2004	684.12	5.25	58.1	6.8	4.9	1578	514.4
9/7/2004	691.29	7.17	58.3	6.8	4.9	1616	514.1
9/8/2004	698.36	7.07	58.4	6.9	4.5	1646	514.1
9/9/2004	705.52	7.16	58.5	6.9	4.6	1684	513.6
9/10/2004	714.30	8.78	58.5	6.9	4.4	1696	514.7
9/11/2004	720.21	5.90	58.3	6.8	4.6	1621	515.1
9/12/2004	726.70	6.49	58.2	6.9	4.6	1669	
9/13/2004	733.75	7.05	57.9	6.9	4.8	1601	
9/14/2004	740.83	7.08	57.7	6.8	4.8	1501	518.3
9/15/2004	747.85	7.02	57.7	6.8	4.8	1491	
9/16/2004	754.97	7.12	57.8	6.9	4.8	1585	
9/17/2004	763.51	8.54	57.8	6.9	4.8	1655	518.5
9/18/2004 D	763.51	0.00	57.7	6.9	4.8	1635	518.4
9/19/2004 D	763.51	0.00					
9/20/2004	769.97	6.46	57.8	6.9	4.8	1676	509.0
9/21/2004	777.14	7.17	57.9	6.9	4.3	1632	
9/22/2004	784.63	7.49	58.2	6.9	5.1	1639	509.5
9/23/2004	791.47	6.84	58.1	6.9	5.0	1638	509.7
9/24/2004	801.49	10.02	58.0	6.9	5.3	1623	509.8
9/25/2004	807.54	6.05	58.0	6.9	5.5	1644	509.8

Date	Totalized Flow (Million Gallons)	Daily Flow (MG)	Water Temp. (°F)	pH (std. units)	Dissolved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Mine Pool Level (Ft)
9/26/2004	813.02	5.48	57.9	6.9	5.6	1652	509.9
9/27/2004	820.29	7.27	57.9	6.9	5.5	1647	510.0
9/28/2004	827.55	7.26	57.8	6.9	5.8	1642	510.4
9/29/2004	834.72	7.17	57.8	6.9	6.0	1601	
9/30/2004	841.91	7.19	57.8	6.8	6.3	1545	510.7
10/1/2004	851.75	9.83	57.8	6.8	4.9	1552	510.9
10/2/2004	858.15	6.40	57.7	6.8	4.9	1565	511.0
10/3/2004	863.28	5.13	57.7	6.9	4.8	1562	511.7
10/4/2004	870.51	7.23	57.6	6.9	4.8	1535	512.0
10/5/2004	877.55	7.04	57.5	6.9	5.0	1484	513.8
10/6/2004	884.68	7.13	57.3	6.8	4.3	1406	515.4
10/7/2004	891.81	7.13	57.3	6.8	4.1	1355	516.9
10/8/2004	898.96	7.15	57.2	6.8	4.2	1314	518.1
10/9/2004	905.88	6.92	57.2	6.8	4.3	1306	519.7
10/10/2004	912.87	6.98	57.2	6.8	4.6	1293	
10/11/2004	920.18	7.32	57.2	6.8	4.5	1280	521.3
10/12/2004	923.86	3.67	57.2	6.8	4.4	1285	522.3
10/13/2004			57.3	6.8	4.3	1354	521.2

Demonstration Ended

Data Notes

- A: Fouled/defective DO probe
- B: DO probe was replaced
- C: Pumping suspended while pump is repaired
- D: Pumping suspended due to high river flow

**Tabulation of Tamaqua Water Authority Data - Daily Log Summary
for Still Creek Reservoir**

(Reservoir Surface Level = Elevation above Mean Sea Level)

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
4/22/2004	1395.8		-	1182.2
4/23/2004	1406.4	10.6	11.8	1182.1
4/24/2004	1422.4	16.0	-	1182.0
4/25/2004	1438.5	16.1	-	1182.0
4/26/2004	1454.3	15.8	-	1182.0
4/27/2004	1470.3	16.0	-	1181.9
4/28/2004	1470.3	0.0	-	-
4/29/2004	1470.3	0.0	-	-
4/30/2004	1470.3	0.0	-	-
5/1/2004	1470.3	0.0	-	-
5/2/2004	1470.3	0.0	-	-
5/3/2004	1470.3	0.0	-	-
5/4/2004	1470.3	0.0	-	-
5/5/2004	1470.3	0.0	-	-
5/6/2004	1470.3	0.0	-	-
5/7/2004	1470.3	0.0	-	-
5/8/2004	1470.3	0.0	-	-
5/9/2004	1470.3	0.0	-	-
5/10/2004	1485.9	15.6	-	1182.2
5/11/2004	1504.2	18.3	-	1182.1
5/12/2004	1522.3	18.1	-	1182.0
5/13/2004	1540.1	17.8	-	1181.9
5/14/2004	1556.6	16.5	-	1181.9
5/15/2004	1574.5	17.9	-	1181.8
5/16/2004	1592.5	18.0	-	1181.8
5/17/2004	1610.5	18.0	10.0	1181.6
5/18/2004	1624.2	13.7	-	1181.5
5/19/2004	1636.1	11.9	-	1181.5
5/20/2004	1648.2	12.1	-	1181.6
5/21/2004	1660.3	12.1	10.2	1181.6
5/22/2004	1672.3	12.0	-	1181.4
5/23/2004	1684.2	11.9	-	1181.3
5/24/2004	1696.2	12.0	-	1181.2
5/25/2004	1708.5	12.3	-	1181.1
5/26/2004	1720.6	12.1	-	1181.0
5/27/2004	1732.8	12.2	-	1181.3
5/28/2004	1741.5	8.7	9.6	1181.3
5/29/2004	1749.5	8.0	-	1181.2
5/30/2004	1757.5	8.0	-	1181.1
5/31/2004	1765.6	8.1	-	1181.1
6/1/2004	1773.5	7.9	-	1181.1
6/2/2004	1781.4	7.9	-	1181.1

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
6/3/2004	1789.3	7.9	-	1181.1
6/4/2004	1797.3	8.0	9.1	1181.0
6/5/2004	1805.3	8.0	-	1181.0
6/6/2004	1813.2	7.9	-	1181.2
6/7/2004	1821.2	8.0	-	1181.1
6/8/2004	1829.4	8.2	-	1181.1
6/9/2004	1838.4	9.0	-	1181.1
6/10/2004	1845.7	7.3	-	1181.1
6/11/2004	1853.1	7.4	8.9	1181.2
6/12/2004	1861.2	8.1	-	1181.2
6/13/2004	1869.5	8.3	-	1181.1
6/14/2004	1877.4	7.9	-	1181.0
6/15/2004	1885.6	8.2	-	1181.0
6/16/2004	1893.5	7.9	-	1181.1
6/17/2004	1901.5	8.0	-	1181.1
6/18/2004	1909.4	7.9	8.9	1181.1
6/19/2004	1917.6	8.2	-	1181.1
6/20/2004	1925.5	7.9	-	-
6/21/2004	1933.5	8.0	-	1181.1
6/22/2004	1941.1	7.6	-	1181.0
6/23/2004	1949.5	8.4	-	1181.1
6/24/2004	1957.4	7.9	-	1181.1
6/25/2004	1965.1	7.7	8.6	1181.0
6/26/2004	1973.1	8.0	-	1180.9
6/27/2004	1981.4	8.3	-	1180.9
6/28/2004	1989.6	8.2	-	1180.8
6/29/2004	1997.6	8.0	-	1180.8
6/30/2004	2001.7	4.1	-	1180.8
7/1/2004	2005.7	4.0	-	1180.8
7/2/2004	2009.7	4.0	8.0	1180.7
7/3/2004	2013.7	4.0	-	1180.7
7/4/2004	2018.0	4.3	-	1180.7
7/5/2004	2022.0	4.0	-	1180.7
7/6/2004	2026.1	4.1	-	1180.6
7/7/2004	2030.0	3.9	-	1180.6
7/8/2004	2034.2	4.2	-	1180.5
7/9/2004	2037.8	3.6	7.8	1180.5
7/10/2004	2042.3	4.5	-	1180.5
7/11/2004	2046.3	4.0	-	1180.4
7/12/2004	2047.3	1.0*	-	1180.5
7/13/2004	2054.7	7.4	-	1180.8
7/14/2004	2064.7	10.0	-	1180.5
7/15/2004	2074.3	9.6	-	1180.5
7/16/2004	2083.5	9.2	7.9	1180.5
7/17/2004	2092.6	9.1	-	1180.5
7/18/2004	2102.8	10.2	-	1180.5

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
7/19/2004	2112.7	9.9	-	1180.6
7/20/2004	2122.6	9.9	-	1180.5
7/21/2004	2132.5	9.9	-	1180.4
7/22/2004	2142.4	9.9	-	1180.4
7/23/2004	2152.1	9.7	7.9	1180.3
7/24/2004	2161.9	9.8	-	1180.5
7/25/2004	2172.1	10.2	-	1180.5
7/26/2004	2181.9	9.8	-	1180.5
7/27/2004	2192.0	10.1	-	1180.4
7/28/2004	2201.5	9.5	-	1180.4
7/29/2004	2212.6	11.1	-	1180.4
7/30/2004	2222.4	9.8	7.2	1180.4
7/31/2004	2232.6	10.2	-	1180.3
8/1/2004	2242.9	10.3	-	1180.4
8/2/2004	2252.2	9.3	-	1180.3
8/3/2004	2266.7	14.5	-	1180.3
8/4/2004	2280.9	14.2	-	1180.2
8/5/2004	2295.1	14.2	-	1180.1
8/6/2004	2308.8	13.7	7.3	1179.9
8/7/2004	2323.0	14.2	-	1179.9
8/8/2004	2337.7	14.7	-	1179.9
8/9/2004	2351.8	14.1	-	1179.6
8/10/2004	2365.8	14.0	-	1179.5
8/11/2004	2379.8	14.0	-	1179.5
8/12/2004	2393.5	13.7	-	1179.4
8/13/2004 *		0	7.1	1179.8
8/14/2004 *		0	-	
8/15/2004 *		0	-	
8/16/2004	2413.3	19.8	-	1180.3
8/17/2004	2433.1	19.8	-	1180.3
8/18/2004	2453.0	19.9	-	1180.3
8/19/2004	2472.8	19.8	-	1180.2
8/20/2004	2491.5	18.7	7.1	1180.1
8/21/2004	2511.9	20.4	-	1180.3
8/22/2004	2532.3	20.4	-	1180.2
8/23/2004	2552.1	19.8	-	1180.2
8/24/2004	2572.1	20.0	-	1180.0
8/25/2004	2592.1	20.0	-	1179.9
8/26/2004	2606.1	14.0	-	1179.8
8/27/2004	2620.1	14.0	6.9	1179.8
8/28/2004	2634.0	13.9	-	1179.7
8/29/2004	2645.0	11.0	-	1179.6
8/30/2004	2658.7	13.7	-	1179.4
8/31/2004	2673.0	14.3	-	1179.3
9/1/2004	2687.0	14.0	-	1179.3
9/2/2004	2698.0	11.0	-	1179.2

Date	Totalized Flow (Million Gallons)	Reservoir Release, Daily Flow (MG)	Weekly Dissolved Oxygen (mg/l)	Reservoir Surface Level (ft)
9/3/2004	2708.9	10.9	6.7	1179.1
9/4/2004	2719.8	10.9	-	1179.1
9/5/2004	2731.2	11.4	-	1179.0
9/6/2004	2742.4	11.2	-	1178.9
9/7/2004	2753.2	10.8	-	1178.9
9/8/2004	2760.0	6.8	-	1178.8
9/9/2004	2767.0	7.0	-	1178.8
9/10/2004	2771.0	4.0	6.5	1178.9
9/11/2004	2775.0	4.0	-	1178.9
9/12/2004	2779.4	4.4	-	1178.9
9/13/2004	2783.1	3.7	-	1178.8
9/14/2004	2787.0	3.9	-	1178.8
9/15/2004	2791.9	4.9	-	1178.8
9/16/2004	2796.0	4.1	-	1178.7
9/17/2004	2800.0	4.0	7.3	1178.7
9/18/2004 *	2800.6	0.6	-	1179.3
9/19/2004 *	2800.6	0.0	-	-
9/20/2004	2812.3	11.7	-	1181.2
9/21/2004	2824.8	12.5	-	1181.4
9/22/2004	2840.4	15.6	-	1181.4
9/23/2004	2855.7	15.3	-	1181.5
9/24/2004	2872.3	16.6	7.3	1181.5
9/25/2004	2888.5	16.2	-	1181.5
9/26/2004	2904.4	15.9	-	1181.5
9/27/2004	2910.6	6.2	-	1181.4
9/28/2004	2916.5	5.9	-	1181.4
9/29/2004 **	2916.5	0.0	-	1181.6
9/30/2004 **	2916.5	0.0	-	
10/1/2004	2922.3	5.8	-	1182.1
10/2/2004	2928.2	5.9	-	1182.1
10/3/2004	2934.5	6.3	-	1182.1
10/4/2004			-	1182.1

* release shut down due to high river flows

** release shut down

**Provisional 2004 Data Subject To Change By USGS
 Tabulation of Schuylkill River Daily Average Flows at four USGS gages
 and Rainfall Accumulation at Landingville, PA**

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.)
	Landingville	Berne	Reading	Pottstown	Landingville
4/22/2004	296	805	1840	2120	0.19
4/23/2004	311	831	1810	2050	0.14
4/24/2004	279	768	1710	2080	0.00
4/25/2004	265	705	1590	1860	0.23
4/26/2004	475	1120	2280	3650	0.99
4/27/2004	417	1240	3030	4230	0.05
4/28/2004	380	1030	2600	3380	0.00
4/29/2004	351	945	2140	2710	0.00
4/30/2004	333	875	1990	2440	0.00
5/1/2004	316	819	1890	2300	0.00
5/2/2004	370	813	1830	2190	1.35
5/3/2004	826	2080	3449	3390	0.12
5/4/2004	573	1570	3090	3920	0.00
5/5/2004	516	1340	2530	3000	0.01
5/6/2004	459	1190	2250	2630	0.00
5/7/2004	458	1130	2130	2410	0.26
5/8/2004	393	980	2000	2350	0.00
5/9/2004	359	874	1790	2080	0.01
5/10/2004	337	826	1719	2020	0.00
5/11/2004	308	777	1640	1900	0.00
5/12/2004	289	715	1530	1790	0.00
5/13/2004	292	686	1429	1650	0.00
5/14/2004	285	634	1360	1570	0.76
5/15/2004	347	925	1580	1640	0.32
5/16/2004	413	1030	1770	1950	0.08
5/17/2004	311	797	1600	1950	0.01
5/18/2004	319	753	1440	1670	0.14
5/19/2004	292	697	1400	1690	0.06
5/20/2004	274	650	1350	1610	0.00
5/21/2004	259	613	1270	1490	0.00
5/22/2004	246	586	1240	1440	0.02
5/23/2004	230	552	1180	1370	0.00
5/24/2004	227	515	1090	1290	0.22
5/25/2004	205	510	1010	1180	0.00
5/26/2004	246	544	1100	1190	0.71
5/27/2004	323	763	1840	2220	0.42
5/28/2004	273	690	1650	2020	0.02
5/29/2004	219	535	1320	1570	0.00
5/30/2004	205	474	1160	1350	0.00
5/31/2004	234	472	1170	1330	0.51
6/1/2004	253	613	1310	1580	0.08
6/2/2004	216	516	1160	1370	0.16
6/3/2004	202	477	1060	1260	0.00

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.)
	Landingville	Berne	Reading	Pottstown	Landingville
6/4/2004	184	426	945	1140	0.00
6/5/2004	352	545	1060	1250	1.56
6/6/2004	520	1700	2730	3240	0.33
6/7/2004	366	1240	2600	3120	0.03
6/8/2004	313	993	2120	2490	0.00
6/9/2004	286	839	1700	1960	0.00
6/10/2004	259	741	1480	1700	0.09
6/11/2004	258	787	1490	1650	0.11
6/12/2004	231	663	1350	1610	--
6/13/2004	207	576	1210	1400	--
6/14/2004	197	540	1220	1310	--
6/15/2004	253	583	1429	1640	--
6/16/2004	317	806	1780	2700	--
6/17/2004	267	607	1590	1970	--
6/18/2004	341	1010	1860	1990	--
6/19/2004	248	739	1560	1920	--
6/20/2004	217	635	1240	1460	--
6/21/2004	-	563	1100	1290	1.04
6/22/2004	-	633	1150	1250	--
6/23/2004	252	716	1390	1680	--
6/24/2004	-	536	1150	1370	--
6/25/2004	-	480	1210	1200	1.04
6/26/2004	-	477	1090	1880	0.01
6/27/2004	172	433	970	1200	0.00
6/28/2004	-	399	876	1060	0.22
6/29/2004	195	459	954	1140	0.04
6/30/2004	157	396	890	1100	0.00
7/1/2004	149	362	798	974	0.00
7/2/2004	141	346	796	938	0.00
7/3/2004	135	326	770	919	0.00
7/4/2004	131	312	738	870	0.00
7/5/2004	149	327	722	852	0.12
7/6/2004	130	329	740	867	0.00
7/7/2004	125	300	717	849	0.46
7/8/2004	122	310	717	1010	0.01
7/9/2004	114	280	669	837	0.00
7/10/2004	110	264	615	764	0.00
7/11/2004	108	257	591	723	0.00
7/12/2004	2010	3240	3620	7840	5.15
7/13/2004	988	2770	5890	9990	0.00
7/14/2004	716	1560	4069	6140	0.92
7/15/2004	638	1600	4110	8139	0.00
7/16/2004	487	1110	3010	4320	0.01
7/17/2004	404	915	2480	3300	0.00
7/18/2004	400	884	2510	3439	0.79
7/19/2004	373	999	2730	4210	0.01
7/20/2004	315	772	1990	2829	0.00
7/21/2004	281	670	1650	2240	0.00
7/22/2004	257	600	1490	1970	0.01

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.)
	Landingville	Berne	Reading	Pottstown	Landingville
7/23/2004	436	770	1840	2020	0.32
7/24/2004	364	1060	3400	4570	0.00
7/25/2004	299	714	2400	3010	0.00
7/26/2004	279	633	2280	2740	0.00
7/27/2004	316	642	3060	7000	0.54
7/28/2004	330	776	3270	11500	0.03
7/29/2004	305	664	2750	5080	0.00
7/30/2004	267	573	2170	3640	0.06
7/31/2004	257	537	1900	2940	0.24
8/1/2004	489	897	2730	7110	0.79
8/2/2004	368	814	2900	4770	0.00
8/3/2004	337	690	2340	3730	0.00
8/4/2004	347	644	1950	3000	0.89
8/5/2004	379	816	2160	3190	0.00
8/6/2004	298	618	1810	2670	0.00
8/7/2004	270	551	1600	2270	0.00
8/8/2004	250	511	1500	2080	0.00
8/9/2004	232	475	1390	1940	0.00
8/10/2004	212	440	1230	1750	0.00
8/11/2004	201	425	1210	1630	0.00
8/12/2004	753	858	1810	1820	5.04
8/13/2004	2530	11200	14000	12200	2.24
8/14/2004	1110	4110	9400	12000	0.00
8/15/2004	753	2460	6690	7960	0.00
8/16/2004	589	1780	4620	5770	0.00
8/17/2004	492	1419	3350	4200	0.00
8/18/2004	440	1200	2590	3040	0.00
8/19/2004	400	1050	2420	2819	0.00
8/20/2004	399	955	2200	2590	2.55
8/21/2004	966	4130	6330	4930	1.83
8/22/2004	534	2410	6390	7940	0.00
8/23/2004	415	1610	4250	5160	0.00
8/24/2004	360	1250	3120	3640	0.00
8/25/2004	323	1040	2550	2910	0.00
8/26/2004	300	907	2230	2450	0.00
8/27/2004	285	806	2039	2230	0.00
8/28/2004	304	746	1890	2060	0.09
8/29/2004	289	742	1840	1970	0.00
8/30/2004	276	673	1710	2020	0.14
8/31/2004	247	680	1900	2440	0.00
9/1/2004	220	569	1650	1920	0.00
9/2/2004	206	523	1460	1640	0.00
9/3/2004	196	491	1530	1520	0.00
9/4/2004	187	461	1610	1810	0.00
9/5/2004	182	443	1300	1460	0.00
9/6/2004	177	431	1220	1330	0.00
9/7/2004	168	413	1170	1290	0.00
9/8/2004	208	457	1270	1409	1.00
9/9/2004	267	639	1480	1719	0.77

EXELON NUCLEAR

Date	Avg. Flow (cu. ft./ sec.)				Rainfall (in.)
	Landingville	Berne	Reading	Pottstown	Landingville
9/10/2004	217	581	1380	1560	0.00
9/11/2004	179	441	1150	1340	0.00
9/12/2004	168	398	1030	1180	0.00
9/13/2004	162	380	989	1110	0.00
9/14/2004	155	358	938	1070	0.00
9/15/2004	153	347	895	1010	0.10
9/16/2004	152	346	928	1030	0.02
9/17/2004	153	346	1170	1110	0.44
9/18/2004	4079	14099	15200	11700	4.43
9/19/2004	2000	7550	15700	21500	0.00
9/20/2004	1120	3800	8020	9690	0.00
9/21/2004	825	2620	6050	6979	0.00
9/22/2004	661	1830	4820	5540	0.00
9/23/2004	560	1470	3610	4230	0.00
9/24/2004	492	1240	2810	3210	0.00
9/25/2004	439	1090	2420	2660	0.00
9/26/2004	396	974	2230	2440	0.00
9/27/2004	363	868	2060	2240	0.00
9/28/2004	1010	2110	3850	3320	3.04
9/29/2004	1019	3900	10900	13300	0.01
9/30/2004	698	2340	6640	8240	0.20
10/1/2004	565	1750	5100	6160	0.00
10/2/2004	494	1429	3880	4510	0.04
10/3/2004	448	1250	3459	3950	0.01
10/4/2004	405	1090	3100	3500	0.00
10/5/2004	370	965	2710	3120	0.00
10/6/2004	343	865	2290	2590	0.00
10/7/2004	319	800	2080	2300	0.00
10/8/2004	302	744	1980	2170	0.00
10/9/2004	287	693	1890	2060	0.00
10/10/2004	271	652	1810	1980	0.00
10/11/2004	255	600	1720	1870	0.00
10/12/2004	239	565	1590	1770	0.00
10/13/2004	230	536	1470	1600	0.08
10/14/2004	275	620	1740	1930	0.45
10/15/2004	277	596	1840	2260	0.53
10/16/2004	304	773	1970	2550	0.05
10/17/2004	237	595	1780	2130	0.01

Demonstration Ended

-- gage inoperable

Chemical Analyses of Wadesville Mine Pool Water
TOC, Anions, Cations, Acidity, Alkalinity
 (Total concentration in mg/l unless otherwise indicated)

Sample Date	4/16/04	4/16/04	5/17/04	6/24/04	7/29/04	8/26/04	9/23/04	10/15/04
Depth	Discharge	600 Ft	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge
Constituent								
Total Organic Carbon	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloride	16	16	15	18	16	15	13	18
Bromide	<1	<1	<1	<1	<1	<1	<1	<1
Nitrate Nitrogen	<1	<1	<1	<1	<1	<1	<1	<1
Nitrite Nitrogen	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ammonia	0.5	0.5	0.5	0.6	0.7	0.7	0.4	0.6
Phosphorous, Ortho	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulfate	560	610	720	440	550	590	840	690
Sodium	60	61	51	62	74	68	84.4	73.7
Potassium	1.9	2.0	1.9	1.7	1.8	2.0	2.4	2.0
Calcium	190	190	220	170	190	190	178	164
Magnesium	108	109	134	86	105	110	131	117
Acidity	12	16	30	28	8	31	17	22
Alkalinity	334	324	295	340	392	360	288	336
Hardness	780	772	892	712	780	880	1010	920
TSS	8	13	8	5	4	5	3	11
TDS	1162	1130	1362	1047	1242	1279	1474	1234

Monthly Perkiomen Creek Monitoring

Associated with the Exelon's Wadesville Mine Demonstation Project

Perkiomen Creek upstream of East Branch confluence, Rt 73 Bridge Schwenksville

Sampling Date	Disolved			
	Oxygen (mg/l)	Temp (°C)	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
12-May	11.0	22.7	40	100
10-Jun	10.1	25.1	39	92
21-Jul	9.5	23.5	58	80
4-Aug	8.8	26.0	61	100
2-Sep	9.7	24.5	276	400
18-Oct	10.6	12.3	308	300

Perkiomen Creek downstream of East Branch confluence, Grateford Intake Pumphouse

Sampling Date	Disolved			
	Oxygen (mg/l)	Temp (°C)	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
12-May	10.0	22.9	30	80
10-Jun	7.7	25.3	80	100
21-Jul	9.1	24.9	65	80
4-Aug	8.6	26.5	161	200
2-Sep	10.1	24.9	579	1055
18-Oct	9.8	12.3	326	390

East Branch Perkiomen Creek Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project
(sampling frequency = 5 per month)

Sampling Date	200' Upstream of Bradshaw Outfall				Outfall from Bradshaw Reservoir				Downstream, Bucks Rd. USGS gage				EBPC at Rt. 73 Bridge			
	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)	Diss. Oxygen	Temp	<i>E. coli</i> (mpn/100ml)	Fecal Coliforms (no./100ml)
	(mg/l)	(°C)			(mg/l)	(°C)			(mg/l)	(°C)			(mg/l)	(°C)		
5/12/2004	10.7	19.4	172	174	10.7	18.7	3	7	11.8	19.7	25	30	10.8	23.6	26	42
5/13/2004	8.9	20.3	121	120	10.4	19.6	12	13	8.5	20.6	27	29	9.0	23.9	15	15
5/18/2004	9.7	19.4	236	240	10.2	20.6	24	40	9.9	20.8	46	54	10.4	22.8	52	80
5/19/2004	7.5	18.4	54	140	9.2	20.9	17	28	8.6	20.6	44	70	8.3	21.2	140	140
5/24/2004	7.4	23.9	138	200	9.5	22.8	5	28	8.5	23.7	37	42	9.9	27.6	NA*	80
6/7/2004	10.7	19.1	1733	1700	11.0	17.8	10	10	9.8	19.0	26	38	10.5	22.1	12	36
6/8/2004	10.2	21.8	727	600	10.7	18.9	6	12	9.7	20.3	44	40	10.4	24.9	20	42
6/9/2004	9.1	22.3	688	635	9.8	20.7	1	2	9.6	21.8	57	88	8.6	25.4	22	60
6/10/2004	8.3	22.2	1203	1135	9.3	22.6	6	6	9.1	23.3	36	50	9.5	25.5	38	96
6/14/2004	8.6	17.6	345	400	9.9	20.6	2	8	9.0	20.8	36	40	10.6	20.1	59	80
7/8/2004	4.8	22.4	106	70	8.9	26.0	<1	<2	9.4	27.6	10	13	8.3	26.3	18	58
7/14/2004	8.8	20.0	816	1700	9.4	22.9	21	90	8.6	23.0	84	170	8.7	21.3	980	2600
7/20/2004	8.3	20.6	387	400	9.5	22.3	1	6	8.6	22.8	40	48	9.0	23.8	194	290
7/21/2004	9.1	21.0	179	185	9.4	23.3	4	4	9.2	23.9	28	40	9.5	24.5	40	76
7/22/2004	9.5	22.0	126	120	9.6	24.3	2	4	8.9	24.8	31	42	10.0	25.5	48	48
8/4/2004	8.8	23.2	387	380	8.7	25.6	9	9	8.1	25.9	26	40	8.8	26.6	37	70
8/9/2004	8.8	21.0	114	100	9.9	22.1	1	2	8.9	22.9	13	13	10.1	24.2	19	32
8/11/2004	7.2	22.1	225	200	9.3	23.4	<1	<2	8.6	23.6	10	20	10.5	23.7	34	42
8/16/2004	7.8	23.8	225	210	9.7	20.8	96	90	9.0	21.6	74	80	9.7	24.6	8	40
8/23/2004	8.5	20.5	96	240	10.3	20.3	308	450	9.6	21.1	687	1000	9.3	23.7	23	80
9/2/2004	9.6	21.3	411	500	11.0	23.2	30	70	10.4	23.7	91	250	10.5	25.1	236	400
9/13/2004	8.7	19.2	687	665	9.9	20.8	12	14	8.7	21.3	26	80	9.9	21.6	91	240
9/14/2004	8.8	18.6	816	1100	9.6	21.0	23	38	8.6	21.1	46	40	9.6	20.8	68	167
9/20/2004	8.9	14.8	2420	1700	9.0	19.9	51	54	8.8	19.2	86	160	9.6	16.7	1120	1315
9/21/2004	9.2	13.7	921	1200	9.0	20.1	12	12	8.8	17.7	133	130	9.3	15.1	980	1300

Exelon Nuclear

Sampling Date	200' Upstream of Bradshaw Outfall				Outfall from Bradshaw Reservoir				Downstream, Bucks Rd. USGS gage				EBPC at Rt. 73 Bridge			
	Diss. Oxygen	Temp	<i>E. coli</i>	Fecal Coliforms	Diss. Oxygen	Temp	<i>E. coli</i>	Fecal Coliforms	Diss. Oxygen	Temp	<i>E. coli</i>	Fecal Coliforms	Diss. Oxygen	Temp	<i>E. coli</i>	Fecal Coliforms
	(mg/l)	(°C)	(mpn/100ml)	(no./100ml)	(mg/l)	(°C)	(mpn/100ml)	(no./100ml)	(mg/l)	(°C)	(mpn/100ml)	(no./100ml)	(mg/l)	(°C)	(mpn/100ml)	(no./100ml)
10/4/2004	10.7	14.0	196	195	10.5	16.3	214	190	9.9	16.8	88	80	10.5	15.7	83	82
10/11/2004	10.9	12.0	219	620	10.3	15.1	81	100	9.8	15.3	54	96	10.5	14.0	65	120
10/13/2004	10.5	8.7	84	185	9.3	14.4	70	220	9.4	14.0	108	130	10.7	10.9	88	90
10/18/2004	10.0	8.9	344	330	9.6	12.3	816	860	9.0	12.7	461	450	11.1	10.4	33	40
10/20/2004	7.9	10.2	416	400	8.2	12.2	141	180	7.2	11.7	130	160	8.7	11.1	63	60

Chemical Analyses of E. Norwegian Creek and Schuylkill River TSS, TDS, Osmotic Pressure, Iron

(Concentration in mg/l unless otherwise indicated)

Station 109 = ~ 3 mi. downstream of Norwegian Creek

Station 106 = ~ 0.5 mi. upstream of Norwegian Creek

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
5/18/2004			
Total Suspended Solids	22	9	8
Total Dissolved Solids	225	105	169
Osmotic Pressure (milliosmoles/kg)	<10	18	<10
Iron, Dissolved	0.31	<0.02	1.15
Iron, Total	1.60	1.45	2.01
Total Alkalinity	36	261	19
Dissolved Oxygen	9.1	9.8	9.8
Spec. Cond. (μ mhos/cm)	314	1440	226
pH (SU)	5.98	6.83	5.70
Temp ($^{\circ}$ C)	14.9	14.6	14.2

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
6/24/2004			
Total Suspended Solids	5	7	12
Total Dissolved Solids	264	930	195
Osmotic Pressure (milliosmoles/kg)	<10	16	<10
Iron, Dissolved	0.03	<0.2	0.68
Iron, Total	1.46	2.33	2.61
Total Alkalinity	N/A	N/A	N/A
Dissolved Oxygen	10.9	10.1	9.6
Spec. Cond. (μ mhos/cm)	497	1394	491
pH (SU)	7.39	7.95	6.95
Temp ($^{\circ}$ C)	17.2	16.2	15.1

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
8/10/2004			
Total Suspended Solids	8	20	10
Total Dissolved Solids	255	1015	229
Osmotic Pressure (milliosmoles/kg)	<10	18	<10
Iron, Dissolved	0.19	0.02	2.39
Iron, Total	1.75	3.33	1.34
Total Alkalinity	36	298	22
Dissolved Oxygen	10.9	10.0	10.7
Spec. Cond. (μ mhos/cm)	382	1325	327
pH (SU)	6.92	7.78	6.52
Temp ($^{\circ}$ C)	17.5	16.5	16.5

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
9/16/2004			
Total Suspended Solids	3	5	11
Total Dissolved Solids	339	1287	218
Osmotic Pressure (milliosmoles/kg)	<10	22	<10
Iron, Dissolved	0.10	<0.02	0.87
Iron, Total	0.74	1.20	2.04
Total Alkalinity	68	306	25
Dissolved Oxygen	9.2	9.6	9.5
Spec. Cond. (μ mhos/cm)	412	1500	268
pH (SU)	7.30	7.95	6.48
Temp ($^{\circ}$ C)	16.0	15.6	16.0

Sampling Date, Constituents	Schuylkill River at Station 109	E. Norwegian Creek	Schuylkill River at Station 106
10/22/2004			
Total Suspended Solids	7	6	5
Total Dissolved Solids	197	287	205
Osmotic Pressure (milliosmoles/kg)	<10	<10	<10
Iron, Dissolved	0.35	0.02	1.27
Iron, Total	1.15	0.17	1.91
Total Alkalinity	37	62	24
Dissolved Oxygen	10.6	10.5	10.7
Spec. Cond. (μ mhos/cm)	265	369	254
pH (SU)	6.85	6.83	6.26
Temp ($^{\circ}$ C)	11.3	11.2	10.7

**Pottstown Water Treatment Plant, Schuylkill River Monitoring
Associated with the Exelon's Wadesville Mine Demonstration Project**

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
4/23/2004	6.9	6.8	
4/24/2004	7.0	6.8	
4/25/2004	7.1	6.8	
4/26/2004	7.0	6.6	
4/27/2004	6.8	6.6	
4/28/2004	6.8	6.8	
4/29/2004	7.1	6.9	
4/30/2004	7.1	6.8	
5/1/2004	7.0	6.8	
5/2/2004	6.9	6.6	
5/3/2004	7.0	6.7	
5/4/2004	6.8	6.7	
5/5/2004	6.8	6.8	
5/6/2004	6.9	6.8	
5/7/2004	6.9	6.8	
5/8/2004	6.9	6.6	
5/9/2004	7.0	6.9	
5/10/2004	7.1	6.9	
5/11/2004	7.1	6.8	
5/12/2004	7.0	6.8	
5/13/2004	7.3	6.8	
5/14/2004	7.0	6.8	
5/15/2004	6.9	6.8	
5/16/2004	6.9	6.8	
5/17/2004	6.9	6.7	
5/18/2004	6.8	6.7	
5/19/2004	6.9	6.7	
5/20/2004	6.8	6.7	
5/21/2004	6.9	6.8	
5/22/2004	6.9	6.8	
5/23/2004	6.9	6.8	
5/24/2004	6.9	6.8	
5/25/2004	7.1	6.8	
5/26/2004	6.9	6.8	
5/27/2004	6.9	6.7	
5/28/2004	7.0	6.8	
5/29/2004	6.9	6.8	
5/30/2004	6.9	6.9	
5/31/2004	7.0	6.8	
6/1/2004	6.9	6.8	
6/2/2004	6.9	6.8	
6/3/2004	7.0	6.8	
6/4/2004	7.0	6.9	
6/5/2004	7.1	7.0	
6/6/2004	6.8	6.7	

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
6/7/2004	7.0	6.8	
6/8/2004	7.0	6.8	
6/9/2004	7.0	6.8	
6/10/2004	6.9	6.8	
6/11/2004	7.0	6.8	
6/12/2004	6.9	6.8	
6/13/2004	6.9	6.8	
6/14/2004	7.1	6.9	
6/15/2004	7.1	6.8	
6/16/2004	6.9	6.6	
6/17/2004	6.9	6.7	360
6/18/2004	6.9	6.8	
6/19/2004	7.0	6.8	
6/20/2004	7.0	6.9	
6/21/2004	7.1	7.0	
6/22/2004	7.0	6.9	350
6/23/2004	7.0	6.7	
6/24/2004	7.0	6.8	370
6/25/2004	7.0	6.9	
6/26/2004	7.0	6.5	
6/27/2004	6.9	6.8	
6/28/2004	7.1	6.9	360
6/29/2004	7.1	6.9	
6/30/2004	7.2	7.0	380
7/1/2004	7.1	7.0	
7/2/2004	7.2	7.0	
7/3/2004	7.2	7.1	
7/4/2004	7.3	7.2	
7/5/2004	7.3	7.2	
7/6/2004	7.3	7.2	
7/7/2004	7.2	7.1	
7/8/2004	7.1	6.8	
7/9/2004	7.0	6.9	440
7/10/2004	7.2	7.0	
7/11/2004	7.1	7.0	
7/12/2004	7.2	6.0	
7/13/2004	6.7	5.9	
7/14/2004	6.8	6.5	
7/15/2004	6.5	6.1	210
7/16/2004	6.7	6.2	
7/17/2004	6.8	6.5	
7/18/2004	6.9	6.7	
7/19/2004	6.8	6.5	
7/20/2004	7.0	6.8	
7/21/2004	7.0	6.7	
7/22/2004	6.9	6.8	
7/23/2004	7.0	6.9	
7/24/2004	6.9	6.8	
7/25/2004	6.9	6.8	

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
7/26/2004	7.0	6.9	330
7/27/2004	7.0	6.9	
7/28/2004	6.7	6.1	
7/29/2004	6.7	6.4	300
7/30/2004	6.8	6.6	
7/31/2004	6.9	6.7	
8/1/2004	6.8	6.1	
8/2/2004	6.8	6.4	310
8/3/2004	6.9	6.7	
8/4/2004	6.8	6.6	
8/5/2004	6.9	6.7	
8/6/2004	7.0	6.7	310
8/7/2004	6.9	6.8	
8/8/2004	6.9	6.8	
8/9/2004	7.0	6.9	
8/10/2004	7.0	6.8	
8/11/2004	7.0	6.9	
8/12/2004	7.0	6.9	
8/13/2004	7.0	6.6	260
8/14/2004	6.6	6.2	
8/15/2004	6.8	6.7	
8/16/2004	6.8	6.7	
8/17/2004	6.9	6.7	
8/18/2004	6.9	6.8	
8/19/2004	6.9	6.7	
8/20/2004	6.9	6.8	
8/21/2004	6.8	6.7	
8/22/2004	6.8	6.6	
8/23/2004	6.9	6.7	
8/24/2004	6.9	6.7	300
8/25/2004	7.0	6.8	
8/26/2004	7.0	6.8	
8/27/2004	7.0	6.8	
8/28/2004	7.0	6.8	
8/29/2004	7.0	6.9	
8/30/2004	7.0	6.8	
8/31/2004	6.9	6.8	
9/1/2004	7.0	6.8	
9/2/2004	7.2	7.0	290
9/3/2004	7.3	6.9	
9/4/2004	7.3	6.9	
9/5/2004	7.2	6.9	
9/6/2004	7.2	6.8	
9/7/2004	7.2	7.0	
9/8/2004	7.3	6.9	
9/9/2004	7.0	6.8	360
9/10/2004	6.9	6.8	
9/11/2004	7.0	6.8	
9/12/2004	7.0	6.9	

Date	pH (SU) Range**		Spec. Cond. (µmhos/cm)
	Max	Min	
9/13/2004	7.0	6.8	300
9/14/2004	7.1	7.0	
9/15/2004	7.2	6.9	
9/16/2004	7.1	6.9	
9/17/2004	7.1	6.9	280
9/18/2004	7.1	6.9	
9/19/2004	6.4	6.0	
9/20/2004	6.6	6.6	310
9/21/2004	6.7	6.3	
9/22/2004	7.6	6.6	
9/23/2004	7.6	7.4	300
9/24/2004	7.5	7.3	
9/25/2004	7.4	7.3	
9/26/2004	7.5	7.4	
9/27/2004	7.6	7.5	320
9/28/2004	7.5	7.3	
9/29/2004	7.4	7.3	
9/30/2004	7.3	7.1	
10/1/2004	7.3	7.2	300
10/2/2004	7.3	7.2	
10/3/2004	7.4	7.3	
10/4/2004	7.4	7.2	
10/5/2004	7.5	7.2	280
10/6/2004	7.5	7.4	
10/7/2004	7.7	7.4	
10/8/2004	7.5	7.4	290
10/9/2004	7.6	7.4	
10/10/2004	7.5	7.3	
10/11/2004	7.8	7.6	
10/12/2004	7.7	7.4	290
10/13/2004	7.8	7.4	
10/14/2004	7.8	7.5	280
10/15/2004	7.7	7.2	
10/16/2004	7.4	7.2	
10/17/2004	7.4	7.3	
10/18/2004	7.7	7.3	
10/19/2004	7.5	7.3	300
10/20/2004	7.5	7.2	
10/21/2004	7.5	7.2	
10/22/2004	7.6	7.2	310

** - pH is taken every 2 hours during the day

Chemical Analyses of Schuylkill River at Pottstown Water Treatment Plant
Low Flow Sampling

(Total concentration in mg/l unless otherwise indicated)

Constituent	Sample Dates>>	7/9/2004
River Flow (cfs)		817
Iron, Total		0.14
Manganese, Total		0.056
Sulfide		<1
Total Organic Carbon		2.3
TDS		268

**Chemical Analyses of Schuylkill River at Pennsylvania American Water Company
TDS Sampling**

(Total concentration in mg/l unless otherwise indicated)

Constituent	Sample	7/30/2004	8/30/2004	9/7/2004	10/18/2004
	Dates>>				
TDS		201	203	247	230
Dissolved Oxygen		7.7	7.5	6.5	8.1
Spec. Cond. (μ mhos/cm)		359	362	374	280
pH (SU)		7.65	7.48	7.41	7.68
Temp ($^{\circ}$ C)		22.0	23.3	20.6	11.0

**Chemical Analyses of Wadesville Mine Pool Water
Monthly NPDES Sampling**

(Total concentration in mg/l unless otherwise indicated)

Constituent	Sample						
	Dates>>	5/12/2004	6/7/2004	7/7/2004	8/8/2004	9/1/2004	10/5/2004
pH (SU)		7.40	6.74	6.98	7.00	6.76	7.03
Spec. Cond. (µmhos/cm)		1832	1438	1740	1478	1709	1727
Iron, Total		1.29	1.79	0.97	4.04	2.36	1.44
Manganese, Total		2.06	2.46	1.84	2.84	2.66	1.91
Sulfate		788	445	610	429	611	605
Acidity		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Alkalinity		308	330	336	382	359	312
TSS		6	8	9	4	1	1

Aquatic Habitat Observations of Little Schuylkill River

Performed During Visits to Download Temperature Monitoring Data

Date*	Site	p-chems				Comments/Observation
		Dissoved Oxygen (mg/l)	Spec. Cond. (µmhos/cm)	Temp. (°C)	pH (SU)	
16-Apr	Little Schuylkill River	N/A	N/A	N/A	N/A	water clear, rocky bottom, stream appears normal
24-Jun	Little Schuylkill River	N/A	N/A	N/A	N/A	water clear, rocky bottom, stream appears normal
29-Jul	Little Schuylkill River	9.4	197	18.0	7.04	water clear, rocky bottom, stream appears normal
	Little Schuylkill River - Upstream	9.1	156	17.3	7.30	water clear, rocky bottom, stream appears normal
	Still Creek	7.7	148	18.5	7.27	water clear, silty bottom, stream appears normal
26-Aug	Little Schuylkill River	9.0	131	17.5	6.90	water clear, rocky bottom, stream appears normal
	Little Schuylkill River - Upstream	9.4	279	16.1	7.29	water clear, rocky bottom, stream appears normal
	Still Creek	7.3	133	20.7	7.07	water clear, silty bottom, stream appears normal
21-Oct	Little Schuylkill River	11.0	80	10.6	6.35	water clear, rocky bottom, stream appears normal
	Little Schuylkill River - Upstream	10.9	94	10.2	5.89	water clear, rocky bottom, stream appears normal
	Still Creek	9.8	22	12.2	6.59	water clear, silty bottom, stream appears normal

* dates of installation and downloading of temperature monitors

Site Locations: Little Schuylkill River - Downstream of Tuscarora Road Bridge
 Little Schuylkill River - Upstream - Just below PA Route 54 Bridge
 Still Creek - Upstream of PA Route 309 Bridge

Fish collected by electrofishing at Schuylkill River Station 106 upstream of the Norwegian Creek confluence during 2004.

Sampling Date:		18 May		24 June		10 August		16 September		21 October	
Scientific Name	Common Name	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)
<i>Notemigonus crysoleucas</i>	golden shiner			2	78-80			1	60	1	90
<i>Salmo trutta</i>	brown trout (carry over)					1	222				
<i>Salvelinus fontinalis</i>	brook trout (wild)	1	38	27	24-131	9	70-236	6	110-134	2	94-120
<i>Rhinichthys atratulus</i>	blacknose dace	60	44-98	117	45-92	124	40-95	114	53-92	134	56-96
<i>Semotilus atromaculatus</i>	creek chub	86	57-207	77	65-152	80	62-163	61	70-190	32	73-201
<i>Catostomus commersoni</i>	white sucker	53	71-214	72	71-383	70	73-334	54	79-336	58	66-275
<i>Ameiurus natalis</i>	yellow bullhead										
<i>Ameiurus nebulosus</i>	brown bullhead							1	75		
<i>Lepomis cyanellus</i>	green sunfish	43	29-133	76	29-145	167	35-121	203	35-111	125	38-145
<i>Lepomis gibbosus</i>	pumpkinseed	1	66	1	64	9	40-67	2	46-67	3	52-59
<i>Lepomis machrochirus</i>	bluegill	2	40-47	4	31-71	2	30-60			8	42-61
<i>Lepomis spp.</i>	sunfish hybrid	1	53	3	51-62						
<i>Etheostoma olmstedii</i>	tessellated darter									1	67
Total Species:		8		9		8		8		9	
Total Individuals:		247		379		462		442		364	
Physicochemical data:											
Time:		1218		1205		1305		1330		1228	
Water Temp (C):		14.2		15.1		16.5		16.0		10.7	
DO (mg/l):		9.8		9.6		10.7		9.53		10.7	
pH:		5.70		6.95		6.52		6.48		6.26	
Specific Conductance (µmhos/cm):		226		491		327		268		254	
Total Alkalinity		19				22		25		24	

Fish collected by electrofishing at Schuylkill River Station 109 downstream of the Norwegian Creek confluence during 2004.

Scientific Name	Common Name	18 May		24 June		10 August		16 September		Total No.	Length Range (mm)
		Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)	Total No.	Length Range (mm)		
<i>Onchorynchus mykiss</i>	rainbow trout	1	315	2	358-366	2	145-295			2	103-106
<i>Salmo trutta</i>	brown trout (carry over)							3	236-255	1	340
<i>Salmo trutta</i>	brown trout (stock)			8	199-400						
<i>Salmo trutta</i>	brown trout (wild)					2	305-395			2	114-140
<i>Salvelinus fontinalis</i>	brook trout (wild)	1	132	6	100-241	3	201-243	5	205-242	4	22-156
<i>Rhinichthys atratulus</i>	blacknose dace	36	24-82	17	53-91	38	45-90	26	36-86	30	40-93
<i>Semotilus atromaculatus</i>	creek chub	5	66-123			12	31-135	13	42-170	8	42-160
<i>Catostomus commersoni</i>	white sucker	21	111-411	67	124-402	87	27-360	172	41-370	113	44-348
<i>Ameiurus natalis</i>	yellow bullhead	1	139					2	162-225		
<i>Ameiurus nebulosus</i>	brown bullhead			1	118	1	95			1	135
<i>Lepomis auritus</i>	redbreast sunfish							1	50		
<i>Lepomis cyanellus</i>	green sunfish	19	30-134	7	38-59	79	36-125	140	36-160	105	33-163
<i>Lepomis gibbosus</i>	pumpkinseed	4	50-76			1	45	2	50-52	8	43-70
<i>Lepomis machrochirus</i>	bluegill	1	54	1	97	1	40				
<i>Lepomis spp.</i>	sunfish hybrid	1	75								
<i>Micropterus salmoides</i>	laremouth bass					1	40	2	50-62		
<i>Etheostoma olmstedi</i>	tessellated darter	1	45								
Total Species:		11		8		11		10		10	
Total Individuals:		91		109		227		366		274	
Physicochemical data:											
Time:		0900		1310		1200		0840		915	
Water Temp (C):		14.9		17.2		17.5		16.0		11.3	
DO (mg/l):		9.07		10.9		10.9		9.2		10.6	
pH:		5.98		7.39		6.92		7.3		6.85	
Specific Conductance (µmhos/cm):		314		497		382		412		265	
Total Alkalinity		36				36		68		37	

Benthic macroinvertebrates collected at Schuylkill River Station 106 upstream of the Norwegian Creek confluence during 2004.

Taxon	Sample Date:	18 May	24 June	10 August	16 September	21 October
Amphipoda (scuds)						
<i>Stygobromis</i>		11		1		
Diptera (true flies)						
<i>Bezzia</i>				2	1	1
Chironomidae		122	137	61	273	15
<i>Chelifera</i>				5		
Dicranota			3	4		1
Hemerodromia				3		
<i>Limnophora</i>		1				
<i>Ormosia</i>		1	1	1		
<i>Psychoda</i>		2	1			
<i>Probezzia</i>		3				
<i>Tipula</i>		7	1	2	7	3
Hoplonemertea (proposcus worms)						
Lumbricida						
<i>Lumbricidae</i>		2	2		1	6
Lumbriculida						
<i>Lumbriculidae</i>			2	1		
Megaloptera						
<i>Nigronia</i>			1	1	1	
<i>Sialis</i>					2	2
Plecoptera (stoneflies)						
<i>Amphinemura</i>			1			
<i>Leuctra</i>			2	1	2	
Trichoptera (caddisflies)						
<i>Ceratopsyche</i>				7		
<i>Cheumatopsyche</i>			1			
<i>Diplectrona</i>					3	4
<i>Hydropsyche</i>		1			15	2
<i>Lepidostoma</i>		1				
<i>Rhyacophila</i>						1
Tubificida						
<i>Enchytraeidae</i>		2				
Tubificidae			1			
Total Taxa		11	12	12	9	9
Total Individuals		153	153	89	305	35

Benthic macroinvertebrates collected at Schuylkill River Station 109 downstream of the Norwegian Creek confluence during 2004.

Taxon	Sample Date:	18 May	24 June	10 August	16 September	21 October
Amphipoda (scuds)						
<i>Crangonyx</i>		8	16	9	11	31
Coleoptera (beetles)						
<i>Dubiraphia</i>			1		1	
<i>Promoresia</i>			1			
<i>Stenelmis</i>					2	1
Decapoda						
<i>Cambarus</i>			1			
Diptera (true flies)						
<i>Antocha</i>			1	3		
Chironomidae		738	784	279	513	135
<i>Chelifera</i>		1		1		
Empididae		3				
<i>Hemerodromia</i>		2		6		
<i>Tipula</i>		2	1	3		6
Tipulidae			3			
Ephemeroptera (mayflies)						
<i>Baetis</i>			5	2	2	
Isopoda (sowbugs)						
<i>Caecidotea</i>		30	49	32	18	17
Lumbricida						
Lumbricidae		2	36	10	7	53
Lumbriculida						
Lumbriculidae		1	4	1		
Megaloptera (dobsonflies)						
<i>Nigronia</i>		1			1	
<i>Sialis</i>		2				
Oligochaeta (worms)						
Enchytraeidae		3				
Tubificidae		2				
Plecoptera (stoneflies)						
<i>Amphinemura</i>		1				
Trichoptera (caddisflies)						
<i>Ceratopsyche</i>		8	8	53	86	67
<i>Cheumatopsyche</i>		8	75	22	16	81
<i>Diplectrona</i>						4
<i>Glossomoma</i>						2
<i>Hydropsyche</i>		28	28	38	94	182
Veneroida						
<i>Pisidium</i>					1	
Total Taxa		17	15	13	12	11
Total Individuals		840	1013	459	752	579