

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

Miscellaneous water-quality data were collected for several projects in cooperation with the Schuylkill Conservation District and the Schuylkill Headwaters Association, Inc. These projects involve assessing the characteristics and remediation of abandoned mine drainage in the Upper Schuylkill River Basin. For additional information, contact Charles Cravotta at the USGS Pennsylvania Water Science Center, 215 Limekiln Road, New Cumberland, PA 17070; 717-730-6900, (email: cravotta@usgs.gov).

TABLE 4.--Acid mine drainage project station list.

Station number	Location	Latitude	Longitude	Drainage area (mi ²)
404512076025501	Bell Water Level Tunnel, nr Mary D, PA	40° 45' 10"	76° 02' 53"	n.a.
0146742498	Bell Water Level Tunnel, 225 M DS, nr Middleport, PA	40° 45' 14"	76° 02' 57"	0.02
404513076025811	Bell Wetland, Cell A Outflow Pipe	40° 45' 13"	76° 02' 58"	n.a.
404511076025811	Bell Wetland, Cell B Outflow Pipe	40° 45' 11"	76° 02' 58"	n.a.
404513076025812	Bell Wetland, Cell A Spillway	40° 45' 13"	76° 02' 58"	n.a.
404511076025812	Bell Wetland, Cell B Spillway	40° 45' 11"	76° 02' 58"	n.a.
404511076025813	Bell Wetland, Cell B, Flush Pipe	40° 45' 11"	76° 02' 58"	n.a.
404513076025818	Bell Wetland, Cell A, Vertical Pipe 18 inches to base	40° 45' 13"	76° 02' 58"	n.a.
404513076025836	Bell Wetland, Cell A, Vertical Pipe 36 inches to base	40° 45' 13"	76° 02' 58"	n.a.
404513076025854	Bell Wetland, Cell A, Vertical Pipe 54 inches to base	40° 45' 13"	76° 02' 58"	n.a.
404513076025872	Bell Wetland, Cell A, Vertical Pipe 72 inches to base	40° 45' 13"	76° 02' 58"	n.a.
404511076025818	Bell Wetland, Cell B, Vertical Pipe 18 inches to base	40° 45' 11"	76° 02' 58"	n.a.
404511076025836	Bell Wetland, Cell B, Vertical Pipe 36 inches to base	40° 45' 11"	76° 02' 58"	n.a.
404511076025854	Bell Wetland, Cell B, Vertical Pipe 54 inches to base	40° 45' 11"	76° 02' 58"	n.a.
404511076025872	Bell Wetland, Cell B, Vertical Pipe 72 inches to base	40° 45' 11"	76° 02' 58"	n.a.
0146742494	Schuylkill River ab Bell Tunnel at Mary D, PA	40° 45' 16"	76° 02' 54"	3.29
0146742500	Schuylkill River bl Bell Tunnel at Mary D, PA	40° 45' 12"	76° 03' 01"	3.35
01467448	Schuylkill River at Middleport, PA	40° 43' 43"	76° 05' 14"	14.5
403958076191401	Otto Air Shaft, nr Branchdale, PA	40° 39' 58"	76° 19' 14"	n.a.
0146784350	Otto Air Shaft, 400 M DS, nr Llewellyn, PA	40° 40' 07"	76° 19' 07"	0.09
0146784338	Muddy Branch ab Otto Mine Discharge nr Branchdale, PA	40° 40' 08"	76° 19' 07"	1.66
0146784354	Muddy Branch bl Otto Mine Discharge ab Steins, PA	40° 40' 03"	76° 18' 24"	2.25
0146784358	Muddy Branch bl Otto Mine Discharge bl Steins, PA	40° 39' 53"	76° 18' 10"	3.03

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
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404512076025501 -- Bell Water Level Tunnel--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
OCT				
06...	178	178	.140	.140
NOV				
05...	171	168	.190	.190
DEC				
16...	169	170	.200	.210
23...	--	--	--	--
APR				
15...	170	160	--	--
MAY				
18...	170	180	--	--
JUN				
16...	215	210	--	--
JUL				
15...	195	225	--	--
AUG				
16...	155	155	--	--
SEP				
15...	195	195	--	--
15...	208	204	.220	.210
30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146742498 -- Bell Water Level Tunnel, 225 M DS, nr Middleport--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
OCT 06...	172	178	.150	.150
NOV 05...	162	165	.190	.200
DEC 16...	--	--	--	--
16...	164	164	.200	.200
APR 15...	160	155	--	--
MAY 18...	160	165	--	--
JUN 16...	190	190	--	--
JUL 15...	180	195	--	--
AUG 16...	150	155	--	--
SEP 15...	--	--	--	--
15...	185	190	--	--
30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025811 -- Bell Wetland Cell A Outflow Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
JUL 15...	1015	1028	89203	.67	372	1.1	8.0	71	6.1	6.2
AUG 16...	1000	1028	89203	.27	351	.7	7.5	67	6.3	6.6
APR 15...	1045	1028	89203	.67	387	2.7	9.0	79	5.9	5.9
MAY 18...	1000	1028	89203	.67	365	2.0	8.3	74	5.9	5.9
JUN 16...	1000	1028	89203	.33	345	2.0	9.2	84	6.3	6.4
SEP 15...	1130	1028	--	.67	406	--	9.4	85	5.6	6.0
15...	1415	1028	89203	.67	396	--	8.9	80	6.0	6.0
15...	1416	1028	1028	.67	400	--	8.9	80	6.0	6.0

Date	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
JUL 15...	255	9.93	31.8	33.4	14.5	15.1	1.00	.900	2.70	2.60
AUG 16...	245	10.1	35.3	36.2	12.2	12.2	1.00	1.00	2.30	2.30
APR 15...	271	9.12	27.0	25.8	13.4	12.7	1.00	1.00	2.60	2.50
MAY 18...	256	10.4	26.2	26.8	13.5	13.4	.900	.900	2.50	2.50
JUN 16...	290	10.5	32.9	35.6	15.0	14.8	1.00	1.00	2.60	2.60
SEP 15...	296	10.2	--	--	--	--	--	--	--	--
15...	304	10.4	31.1	31.2	15.1	15.4	1.00	1.00	2.50	2.40
15...	300	10.4	27.1	28.2	13.4	13.8	.960	.970	2.74	2.70

Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate water, fltrd, mg/L (00945)	Sulfate water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
JUL 15...	20.4	--	3.43	--	--	--	107	--	.050	--
AUG 16...	38.8	--	3.24	<.010	--	--	85.4	--	.020	<.030
APR 15...	10.9	<8.60	3.36	--	--	--	116	--	.040	--
MAY 18...	12.2	<2.00	4.61	--	--	--	108	--	.020	--
JUN 16...	27.6	<19.6	3.70	--	--	--	115	--	.050	--
SEP 15...	18.6	--	--	--	--	--	--	--	--	--
15...	18.6	--	2.93	--	--	--	117	--	--	--
15...	19.0	--	--	--	11.1	11.6	--	101	--	--

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ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025811 -- Bell Wetland Cell A Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ortho-phosphate, water, fltrd, mg/L (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover -able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
JUL 15...	--	--	--	200	300	--	--	--	--
AUG 16...	<.020	--	--	<100	200	--	--	--	--
APR 15...	--	--	--	300	600	--	--	--	--
MAY 18...	--	--	--	300	500	--	--	--	--
JUN 16...	--	--	--	<100	300	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	200	800	--	--	--	--
15...	--	<.010	<.010	39.9	660	2.30	5.50	2.00	3.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover -able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
JUL 15...	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	.080	--	--
APR 15...	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	20.4	20.8	.800	.900	<.200	<.200	--	.130	.130

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover -able, ug/L (01034)	Cobalt, water, fltrd, ug/L (01035)	Cobalt, water, unfltrd recover -able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	114	124	.090	.100	<1.00	<1.00	33.6	35.6	3.30	4.10

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404513076025811 -- Bell Wetland Cell A Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	9.40	10.9	4.88	6.89	2.46	3.10	14.0	14.2	<.050	<.050

Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd, recoverable, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recoverable, ug/L (01051)
JUL 15...	--	--	--	--	490	640	--	--	--	--
AUG 16...	--	--	--	--	160	190	--	--	--	--
APR 15...	--	--	--	--	1150	1360	--	--	--	--
MAY 18...	--	--	--	--	960	1240	--	--	--	--
JUN 16...	--	--	--	--	460	600	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	620	1070	--	--	--	--
15...	<.050	<.050	1.76	2.00	474	878	65.3	68.5	.100	.400

Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, unfltrd, recoverable, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recoverable, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recoverable, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recoverable, ug/L (01067)
JUL 15...	--	--	1100	1040	--	--	--	--	55.0	55.0
AUG 16...	--	--	530	520	--	--	--	--	35.0	35.0
APR 15...	--	--	1700	1640	--	--	--	--	60.0	50.0
MAY 18...	--	--	1560	1560	--	--	--	--	55.0	55.0
JUN 16...	--	--	1330	1460	--	--	--	--	55.0	50.0
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	1040	1050	--	--	--	--	55.0	55.0
15...	15.3	17.1	1090	1120	<2.00	<2.00	54.6	57.3	51.3	52.0

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404513076025811 -- Bell Wetland Cell A Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	14.3	16.8	<.300	<.300	1.94	1.92	12.7	12.8	--	--

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	120	124	1.62	2.04	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd ug/L (01203)
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.650	.970	<.500	<.500	<.500	<.500	4.18	5.34	51.7	59.4

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404513076025811 -- Bell Wetland Cell A Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd ug/L (28011)
JUL 15...	155	170	--	--
AUG 16...	95.0	95.0	--	--
APR 15...	145	150	--	--
MAY 18...	160	165	--	--
JUN 16...	155	155	--	--
SEP 15...	--	--	--	--
15...	190	185	--	--
15...	182	188	<.100	.150

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025811 -- Bell Wetland Cell B Outflow Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
MAY 18...	1015	1028	89203	.33	375	1.0	7.8	70	5.8	5.7
JUL 15...	1030	1028	89203	.13	257	.0	6.8	62	6.3	6.3
AUG 16...	1030	1028	89203	.13	259	.6	5.6	50	6.0	6.6
APR 15...	1100	1028	89203	.22	365	8.5	6.4	55	6.4	6.4
JUN 16...	1015	1028	89203	.19	346	1.0	6.9	62	6.4	6.4
SEP 15...	1115	1028	--	.13	217	--	7.0	64	6.3	6.2
15...	1345	1028	89203	.15	198	--	6.2	56	6.3	6.2
15...	1346	1028	1028	.15	200	--	6.2	56	6.3	6.2

Date	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
MAY 18...	251	10.4	24.6	24.7	13.5	13.5	1.30	1.30	2.70	2.60
JUL 15...	271	10.5	35.6	37.5	15.2	15.7	1.70	1.60	2.90	2.80
AUG 16...	243	10.2	28.6	29.6	13.2	13.1	1.50	1.50	2.20	2.40
APR 15...	310	9.01	39.8	41.1	15.0	15.3	3.70	3.70	3.20	3.10
JUN 16...	290	10.8	32.9	34.9	15.4	15.1	1.70	1.60	2.60	2.70
SEP 15...	305	10.3	--	--	--	--	--	--	--	--
15...	311	10.3	32.5	32.6	16.3	16.5	1.50	1.50	2.40	2.40
15...	310	10.3	30.9	31.6	15.2	15.8	1.55	1.51	2.87	2.88

Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate water, fltrd, mg/L (00945)	Sulfate water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
MAY 18...	9.50	3.60	3.48	--	--	--	106	--	.030	--
JUL 15...	33.8	--	3.56	--	--	--	105	--	.040	--
AUG 16...	28.4	--	4.90	<.010	--	--	85.6	--	.050	.030
APR 15...	29.4	<25.2	3.89	--	--	--	119	--	.060	--
JUN 16...	26.0	<17.9	3.81	--	--	--	115	--	.050	--
SEP 15...	28.8	--	--	--	--	--	--	--	--	--
15...	28.8	--	4.79	--	--	--	114	--	--	--
15...	29.0	--	--	--	12.0	12.2	--	103	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025811 -- Bell Wetland Cell B Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ortho-phosphate, water, fltrd, mg/L (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
MAY 18...	--	--	--	400	500	--	--	--	--
JUL 15...	--	--	--	<100	<100	--	--	--	--
AUG 16...	<.020	--	--	<100	<100	--	--	--	--
APR 15...	--	--	--	100	400	--	--	--	--
JUN 16...	--	--	--	<100	<100	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	<100	<100	--	--	--	--
15...	--	<.010	<.010	22.9	35.0	62.7	58.0	<1.00	1.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover-able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
MAY 18...	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	.080	--	--
APR 15...	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	18.6	18.7	.400	.400	<.200	<.200	--	.070	.100

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt, water, fltrd, ug/L (01035)	Cobalt, water, unfltrd recover-able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover-able, ug/L (01042)
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	50.2	51.8	.080	.070	<1.00	<1.00	29.4	31.4	.960	1.60

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025811 -- Bell Wetland Cell B Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	3.72	3.17	1.98	2.46	.970	1.07	4.64	5.90	<.050	<.050

Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd, recoverable, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recoverable, ug/L (01051)
MAY 18...	--	--	--	--	280	400	--	--	--	--
JUL 15...	--	--	--	--	390	390	--	--	--	--
AUG 16...	--	--	--	--	210	210	--	--	--	--
APR 15...	--	--	--	--	280	430	--	--	--	--
JUN 16...	--	--	--	--	310	290	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	90.0	110	--	--	--	--
15...	<.050	<.050	.560	.640	51.0	53.0	30.5	33.6	<.050	<.050

Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, unfltrd, recoverable, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recoverable, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recoverable, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recoverable, ug/L (01067)
MAY 18...	--	--	1600	1610	--	--	--	--	55.0	55.0
JUL 15...	--	--	1100	1050	--	--	--	--	50.0	50.0
AUG 16...	--	--	850	830	--	--	--	--	40.0	40.0
APR 15...	--	--	1690	1730	--	--	--	--	50.0	45.0
JUN 16...	--	--	1570	1700	--	--	--	--	55.0	55.0
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	920	930	--	--	--	--	45.0	45.0
15...	14.7	14.0	984	998	<2.00	<2.00	20.3	21.4	45.5	46.3

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025811 -- Bell Wetland Cell B Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd, ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd, ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd, ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd, ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd, ug/L (01147)
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	5.70	5.92	<.300	<.300	2.24	2.30	4.72	3.98	--	--

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd, ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd, ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd, ug/L (82364)
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	130	132	.600	.780	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd, ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd, ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd, ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd, ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd, ug/L (01203)
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.270	.340	<.500	<.500	<.500	<.500	1.42	2.17	23.0	24.2

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025811 -- Bell Wetland Cell B Outflow Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd ug/L (28011)
MAY 18...	160	160	--	--
JUL 15...	120	140	--	--
AUG 16...	140	120	--	--
APR 15...	110	115	--	--
JUN 16...	150	150	--	--
SEP 15...	--	--	--	--
15...	135	135	--	--
15...	134	137	<.100	<.100

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025812 -- Bell Wetland Cell B Spillway

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
APR 15...	1130	1028	89203	.91	567	8.4	9.8	88	4.4	4.4
MAY 18...	1045	1028	89203	--	589	8.0	8.5	78	3.9	4.2
JUN 16...	1045	1028	89203	.19	462	5.0	8.6	79	4.4	4.2
JUL 15...	1100	1028	89203	1.1	514	3.2	8.2	75	4.0	4.0
AUG 16...	1045	1028	89203	1.0	480	4.3	8.0	71	4.4	4.3
SEP 15...	1400	1028	1028	.42	523	--	9.0	84	4.0	3.9
15...	1100	1028	--	.54	418	--	8.6	78	4.1	3.9
15...	1401	1028	1028	<.76	520	--	9.0	84	4.0	3.9

Date	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
APR 15...	263	10.5	18.5	21.2	12.7	14.5	.900	1.20	2.50	2.90
MAY 18...	262	10.6	17.8	17.6	13.3	13.4	.900	.900	2.70	2.60
JUN 16...	274	11.3	19.0	19.1	14.4	14.4	1.00	1.00	2.60	2.60
JUL 15...	255	11.2	17.7	18.6	13.7	14.1	.900	.900	2.70	2.50
AUG 16...	206	10.4	14.2	13.9	11.0	10.9	.900	.900	2.30	2.30
SEP 15...	298	12.3	18.5	18.3	14.1	14.1	1.00	1.00	2.30	2.40
15...	289	10.8	--	--	--	--	--	--	--	--
15...	300	12.3	16.4	16.2	12.8	13.0	1.02	.960	2.37	2.54

Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)
APR 15...	.000	18.4	3.29	--	--	--	115	--	.010	--
MAY 18...	.000	14.6	3.32	--	--	--	109	--	.010	--
JUN 16...	.000	18.3	3.69	--	--	--	117	--	.010	--
JUL 15...	.000	--	3.44	--	--	--	106	--	.030	--
AUG 16...	.000	--	3.39	<.010	--	--	82.5	--	.020	.030
SEP 15...	.000	--	3.02	--	--	--	115	--	--	--
15...	.000	--	--	--	--	--	--	--	--	--
15...	.000	--	--	--	11.7	11.7	--	101	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025812 -- Bell Wetland Cell B Spillway--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ortho-phosphate, water, fltrd, mg/L (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover -able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
APR 15...	--	--	--	1100	1400	--	--	--	--
MAY 18...	--	--	--	900	1000	--	--	--	--
JUN 16...	--	--	--	1100	1100	--	--	--	--
JUL 15...	--	--	--	900	800	--	--	--	--
AUG 16...	<.020	--	--	800	800	--	--	--	--
SEP 15...	--	--	--	1300	1300	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	<.010	<.010	1120	1160	10.8	8.60	2.00	2.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover -able, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover -able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
APR 15...	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	.100	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	20.1	19.9	1.80	1.80	<.200	<.200	--	.150	.160

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover -able, ug/L (01034)	Cobalt, water, fltrd, ug/L (01035)	Cobalt, water, unfltrd recover -able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	242	240	.120	.110	<1.00	<1.00	52.9	51.1	7.60	7.60

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025812 -- Bell Wetland Cell B Spillway--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	21.9	21.2	11.6	12.3	6.08	6.35	27.9	28.3	<.050	<.050

Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd, recoverable, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recoverable, ug/L (01051)
APR 15...	--	--	--	--	2540	3430	--	--	--	--
MAY 18...	--	--	--	--	2260	3000	--	--	--	--
JUN 16...	--	--	--	--	2700	3200	--	--	--	--
JUL 15...	--	--	--	--	2230	2770	--	--	--	--
AUG 16...	--	--	--	--	2030	2580	--	--	--	--
SEP 15...	--	--	--	--	2020	2530	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	4.08	4.03	1700	2400	118	115	1.10	1.20

Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, unfltrd, recoverable, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recoverable, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recoverable, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recoverable, ug/L (01067)
APR 15...	--	--	1680	1930	--	--	--	--	60.0	65.0
MAY 18...	--	--	1680	1680	--	--	--	--	60.0	60.0
JUN 16...	--	--	1930	1970	--	--	--	--	65.0	60.0
JUL 15...	--	--	1440	1400	--	--	--	--	65.0	65.0
AUG 16...	--	--	1050	1030	--	--	--	--	50.0	50.0
SEP 15...	--	--	1420	1430	--	--	--	--	65.0	60.0
15...	--	--	--	--	--	--	--	--	--	--
15...	18.4	18.1	1580	1580	<2.00	<2.00	120	117	58.0	59.4

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025812 -- Bell Wetland Cell B Spillway--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	31.7	31.9	<.300	<.300	1.94	1.91	26.2	25.9	--	--

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	115	117	4.08	3.85	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd ug/L (01203)
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	2.02	2.01	<.500	<.500	<.500	<.500	10.5	11.1	105	105

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025812 -- Bell Wetland Cell B Spillway--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
APR 15...	160	165	--	--
MAY 18...	180	180	--	--
JUN 16...	205	205	--	--
JUL 15...	195	210	--	--
AUG 16...	160	155	--	--
SEP 15...	195	195	--	--
15...	--	--	--	--
15...	196	198	.200	.210

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025813 -- Bell Cell B Flush Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
MAY 18...	1327	1028	89203	--	--	--	--	--	--	5.2
Date	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water unfltrd recover, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Potassium water unfltrd recover, mg/L (00937)	Sodium water, fltrd, mg/L (00930)	Sodium water unfltrd recover, mg/L (00929)
MAY 18...	271	10.2	36.5	48.5	14.1	20.1	2.70	3.30	2.90	3.10
Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum water, fltrd, ug/L (01106)	Aluminum water unfltrd recover, ug/L (01105)	Bromine water unfltrd, mg/L (71871)
MAY 18...	2.10	4.35	--	118	.020	--	--	<100	22400	--
Date	Iron, water, unfltrd recover, ug/L (01046)	Iron, water, unfltrd recover, ug/L (01045)	Manganese water, fltrd, ug/L (01056)	Manganese water unfltrd recover, ug/L (01055)	Nickel, water, fltrd, ug/L (01065)	Nickel, water unfltrd recover, ug/L (01067)	Zinc, water, fltrd, ug/L (01090)	Zinc, water unfltrd recover, ug/L (01092)		
MAY 18...	490	93300	1540	1700	45.0	80.0	115	350		

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025818 -- Bell Cell A Vertical Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
AUG 16...	1130	1028	89203	.00	386	22	8.3	79	5.7	6.4
SEP 15...	1730	1028	89203	--	325	--	7.9	78	5.9	6.2
15...	1731	1028	1028	--	330	--	7.9	78	5.9	6.2

Date	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
AUG 16...	226	13.2	28.9	--	11.6	--	1.00	--	2.60	--
SEP 15...	285	14.3	--	--	--	--	--	--	--	--
15...	290	14.3	22.1	23.1	13.8	14.6	.920	1.00	2.71	2.94

Date	ANC, wat unfltrd fixed end pt, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
AUG 16...	25.8	--	--	--	--	--	--	--	--	--
SEP 15...	7.00	--	2.87	--	--	--	116	--	--	--
15...	7.00	--	--	--	11.4	12.3	--	104	--	--

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd, ug/L (01002)
AUG 16...	--	--	--	<100	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	<.010	<.010	218	778	47.7	54.2	<1.00	2.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover-able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
AUG 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	20.8	21.8	1.10	1.40	<.200	<.200	--	.140	.160

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025818 -- Bell Cell A Vertical Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd ug/L (01117)	Chrom- ium, water, fltrd, ug/L (01030)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover- able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover- able, ug/L (01042)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	209	215	.110	.120	<1.00	<1.00	39.1	40.9	5.60	6.20

Date	Dyspros- ium, water, fltrd, ug/L (82331)	Dyspros- ium, water, unfltrd ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd ug/L (01246)	Euro- pium, water, fltrd, ug/L (50574)	Euro- pium, water, unfltrd ug/L (01236)	Gado- linium, water, fltrd, ug/L (50575)	Gado- linium, water, unfltrd ug/L (01219)	Gallium water, fltrd, ug/L (01120)	Gallium water, unfltrd ug/L (01122)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	14.4	17.0	10.6	10.4	3.69	4.16	20.1	20.6	<.050	<.050

Date	German- ium, water, fltrd, ug/L (01125)	German- ium, water, unfltrd ug/L (01127)	Holmium water, fltrd, ug/L (50577)	Holmium water, unfltrd ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lantha- num, water, fltrd, ug/L (01180)	Lantha- num, water, unfltrd ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)
AUG 16...	--	--	--	--	540	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	3.12	3.58	903	1490	110	111	.400	.830

Date	Lithium water, fltrd, ug/L (01130)	Lithium water, unfltrd recover- able, ug/L (01132)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Molyb- denum, water, fltrd, ug/L (01060)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Neodym- ium, water, fltrd, ug/L (50579)	Neodym- ium, water, unfltrd ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)
AUG 16...	--	--	730	--	--	--	--	--	40.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	14.8	15.4	1400	1480	<2.00	<2.00	94.7	93.0	57.3	61.8

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	23.9	25.4	<.300	<.300	1.96	2.08	25.8	27.6	1.50	9.30

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025818 -- Bell Cell A Vertical Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	114	122	3.61	2.92	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd ug/L (01203)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	1.23	1.77	<.500	<.500	<.500	<.500	7.95	8.75	90.4	98.3

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd ug/L (28011)
AUG 16...	130	--	--	--
SEP 15...	--	--	--	--
15...	202	211	.140	.180

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025836 -- Bell Cell A Vertical Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
SEP 15...	1745	1028	89203	--	409	--	8.3	81	5.0	5.0
SEP 15...	1746	1028	1028	--	410	--	8.3	81	5.0	5.0
Date	Specif. conductance, wat unfltrd, uS/cm (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water, unfltrd recover, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Potassium water, unfltrd recover, mg/L (00937)	Sodium water, fltrd, mg/L (00930)	Sodium water, unfltrd recover, mg/L (00929)
SEP 15...	280	14.1	--	--	--	--	--	--	--	--
SEP 15...	280	14.1	19.6	20.2	13.7	13.8	.970	1.04	2.87	3.00
Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride water, fltrd, mg/L (00940)	Fluoride water, fltrd, mg/L (00950)	Silica water, fltrd, mg/L (00955)	Silica water, unfltrd, mg/L (00956)	Sulfate water, fltrd, mg/L (00945)	Sulfate water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
SEP 15...	1.00	--	2.90	--	--	--	117	--	--	--
SEP 15...	1.00	--	--	--	11.6	12.2	--	100	--	--
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd, ug/L (01002)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	--	<.010	<.010	802	918	44.3	46.9	<1.00	<1.00	
Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover, ug/L (00998)	Bismuth water, fltrd, ug/L (01015)	Bismuth water, unfltrd, ug/L (01017)	Bromine water, unfltrd, mg/L (71871)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd, ug/L (01027)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	20.6	21.2	1.40	1.40	<.200	<.200	--	.160	.150	
Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover, ug/L (01042)
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15...	241	256	.100	.120	<1.00	<1.00	43.8	44.5	6.30	6.90

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025836 -- Bell Cell A Vertical Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	19.4	19.4	12.2	13.4	4.80	5.89	22.0	22.9	<.050	<.050
Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, recoverable, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recoverable, ug/L (01051)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	<.050	<.050	4.16	4.18	1160	1780	118	124	.680	.900
Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, unfltrd, recoverable, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recoverable, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recoverable, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recoverable, ug/L (01067)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	15.2	14.7	1540	1540	<2.00	<2.00	109	112	58.3	63.0
Date	Praseodymium, water, fltrd, ug/L (50582)	Praseodymium, water, unfltrd, ug/L (01238)	Rhenium, water, fltrd, ug/L (50583)	Rhenium, water, unfltrd, ug/L (01242)	Rubidium, water, fltrd, ug/L (01135)	Rubidium, water, unfltrd, ug/L (01137)	Samarium, water, fltrd, ug/L (82323)	Samarium, water, unfltrd, ug/L (82322)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd, ug/L (01147)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	27.4	29.3	<.300	<.300	1.84	1.91	32.0	32.8	<1.00	<1.00
Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd, recoverable, ug/L (01077)	Strontium, water, fltrd, ug/L (01080)	Strontium, water, unfltrd, recoverable, ug/L (01082)	Terbium, water, fltrd, ug/L (50586)	Terbium, water, unfltrd, ug/L (01218)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Thorium, water, fltrd, ug/L (82365)	Thorium, water, unfltrd, ug/L (82364)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	<3.00	<3.00	116	118	3.83	3.83	<.100	<.100	<.200	<.200
Date	Thulium, water, fltrd, ug/L (50587)	Thulium, water, unfltrd, ug/L (01245)	Tungsten, water, fltrd, ug/L (01155)	Tungsten, water, unfltrd, ug/L (01154)	Vanadium, water, fltrd, ug/L (01085)	Vanadium, water, unfltrd, ug/L (01087)	Ytterbium, water, fltrd, ug/L (01194)	Ytterbium, water, unfltrd, ug/L (01196)	Yttrium, water, fltrd, ug/L (01201)	Yttrium, water, unfltrd, ug/L (01203)
SEP 15... 15...	--	--	--	--	--	--	--	--	--	--
	1.58	1.64	<.500	<.500	<.500	<.500	10.6	9.40	105	109
Date				Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd, recoverable, ug/L (01092)	Uranium, natural water, fltrd, ug/L (22703)	Uranium, natural water, unfltrd, ug/L (28011)			
SEP 15... 15...				--	--	--	--			
				199	208	.190	.200			

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025854 -- Bell Cell A Vertical Pipe 3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
SEP 15...	1800	1028	89203	--	400	--	8.3	81	5.1	5.0
SEP 15...	1801	1028	1028	--	400	--	8.3	81	5.1	5.0
Date	Specif. conductance, wat unfltrd, uS/cm (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water, unfltrd recover, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Potassium water, unfltrd recover, mg/L (00937)	Sodium water, fltrd, mg/L (00930)	Sodium water, unfltrd recover, mg/L (00929)
SEP 15...	290	14.5	--	--	--	--	--	--	--	--
SEP 15...	290	14.5	21.4	21.9	13.7	13.9	.995	.990	2.81	3.00
Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride water, fltrd, mg/L (00940)	Fluoride water, fltrd, mg/L (00950)	Silica water, fltrd, mg/L (00955)	Silica water, unfltrd, mg/L (00956)	Sulfate water, fltrd, mg/L (00945)	Sulfate water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
SEP 15...	3.40	--	2.88	--	--	--	117	--	--	--
SEP 15...	3.40	--	--	--	11.9	12.2	--	102	--	--
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd, ug/L (01002)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	--	<.010	<.010	642	862	49.5	45.7	<1.00	<1.00	
Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover, ug/L (00998)	Bismuth water, fltrd, ug/L (01015)	Bismuth water, unfltrd, ug/L (01017)	Bromine water, unfltrd, mg/L (71871)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd, ug/L (01027)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	21.0	21.1	1.40	1.60	<.200	<.200	--	.150	.150	
Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover, ug/L (01042)
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15...	237	240	.110	.120	<1.00	<1.00	42.3	42.3	6.50	6.90

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025854 -- Bell Cell A Vertical Pipe 3--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
SEP 15... 15...	-- 17.7	-- 18.2	-- 13.5	-- 12.5	-- 5.26	-- 4.85	-- 22.9	-- 23.7	-- .050	-- <.050
Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, recover-able, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recover-able, ug/L (01051)
SEP 15... 15...	-- <.050	-- <.050	-- 4.64	-- 4.15	-- 1120	-- 1750	-- 117	-- 120	-- .600	-- .850
Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, recover-able, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recover-able, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recover-able, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recover-able, ug/L (01067)
SEP 15... 15...	-- 14.7	-- 16.1	-- 1520	-- 1500	-- <2.00	-- <2.00	-- 109	-- 109	-- 58.7	-- 60.7
Date	Praseodymium, water, fltrd, ug/L (50582)	Praseodymium, water, unfltrd, ug/L (01238)	Rhenium, water, fltrd, ug/L (50583)	Rhenium, water, unfltrd, ug/L (01242)	Rubidium, water, fltrd, ug/L (01135)	Rubidium, water, unfltrd, ug/L (01137)	Samarium, water, fltrd, ug/L (82323)	Samarium, water, unfltrd, ug/L (82322)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd, ug/L (01147)
SEP 15... 15...	-- 28.7	-- 28.2	-- <.300	-- <.300	-- 1.97	-- 1.91	-- 32.8	-- 30.5	-- <1.00	-- 1.20
Date	Silver, water, fltrd, ug/L (01075)	Silver, water, recover-able, ug/L (01077)	Strontium, water, fltrd, ug/L (01080)	Strontium, water, unfltrd, recover-able, ug/L (01082)	Terbium, water, fltrd, ug/L (50586)	Terbium, water, unfltrd, ug/L (01218)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Thorium, water, fltrd, ug/L (82365)	Thorium, water, unfltrd, ug/L (82364)
SEP 15... 15...	-- <3.00	-- <3.00	-- 118	-- 118	-- 3.70	-- 3.47	-- <.100	-- <.100	-- <.200	-- <.200
Date	Thulium, water, fltrd, ug/L (50587)	Thulium, water, unfltrd, ug/L (01245)	Tungsten, water, fltrd, ug/L (01155)	Tungsten, water, unfltrd, ug/L (01154)	Vanadium, water, fltrd, ug/L (01085)	Vanadium, water, unfltrd, ug/L (01087)	Ytterbium, water, fltrd, ug/L (01194)	Ytterbium, water, unfltrd, ug/L (01196)	Yttrium, water, fltrd, ug/L (01201)	Yttrium, water, unfltrd, ug/L (01203)
SEP 15... 15...	-- 1.75	-- 1.35	-- <.500	-- <.500	-- <.500	-- <.500	-- 7.76	-- 9.07	-- 104	-- 104
Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, recover-able, ug/L (01092)	Zinc, water, unfltrd, recover-able, ug/L (01090)	Zinc, water, unfltrd, recover-able, ug/L (01092)	Uranium, natural water, fltrd, ug/L (22703)	Uranium, natural water, unfltrd, ug/L (28011)				
SEP 15... 15...					-- 202	-- 204	-- .170	-- .180		

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025872 -- Bell Cell A Vertical Pipe 4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
AUG 16...	1145	1028	89203	.00	422	88	8.7	84	5.1	5.0
SEP 15...	1815	1028	89203	--	451	--	8.2	80	4.6	4.5
15...	1816	1028	1028	--	450	--	8.2	80	4.6	4.5

Date	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, unfltrd recover-able, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, unfltrd recover-able, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
AUG 16...	201	14.0	14.7	--	10.7	--	.900	--	2.30	--
SEP 15...	284	14.2	--	--	--	--	--	--	--	--
15...	280	14.2	19.1	19.9	13.4	13.7	.975	1.03	2.90	2.84

Date	ANC, wat unfltrd fixed end pt, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)
AUG 16...	2.70	--	--	--	--	--	--	--	--	--
SEP 15...	.000	--	2.90	--	--	--	116	--	--	--
15...	.000	--	--	--	12.1	12.1	--	100	--	--

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
AUG 16...	--	--	--	700	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	<.010	<.010	905	938	41.8	48.7	<1.00	<1.00

Date	Barium, water, unfltrd recover-able, ug/L (01005)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, unfltrd recover-able, ug/L (01010)	Beryllium, water, unfltrd recover-able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
AUG 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	20.6	21.0	1.70	1.60	<.200	<.200	--	.140	.140

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025872 -- Bell Cell A Vertical Pipe 4--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chrom- ium, water, fltrd, ug/L (01030)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, recover- able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover- able, ug/L (01042)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	255	257	.120	.110	<1.00	<1.00	42.7	44.8	7.20	7.60
Date	Dyspros- ium, water, fltrd, ug/L (82331)	Dyspros- ium, water, unfltrd ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd ug/L (01246)	Euro- pium, water, fltrd, ug/L (50574)	Euro- pium, water, unfltrd ug/L (01236)	Gado- linium, water, fltrd, ug/L (50575)	Gado- linium, water, unfltrd ug/L (01219)	Gallium water, fltrd, ug/L (01120)	Gallium water, unfltrd ug/L (01122)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	20.0	21.0	12.7	12.9	5.59	5.53	24.0	22.2	.060	.070
Date	German- ium, water, fltrd, ug/L (01125)	German- ium, water, unfltrd ug/L (01127)	Holmium water, fltrd, ug/L (50577)	Holmium water, unfltrd ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lantha- num, water, fltrd, ug/L (01180)	Lantha- num, water, unfltrd ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)
AUG 16...	--	--	--	--	1730	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	4.38	4.30	1390	2010	122	122	.930	1.00
Date	Lithium water, fltrd, ug/L (01130)	Lithium unfltrd recover- able, ug/L (01132)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Molyb- denum, water, fltrd, ug/L (01060)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Neodym- ium, water, fltrd, ug/L (50579)	Neodym- ium, water, unfltrd ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)
AUG 16...	--	--	1000	--	--	--	--	--	45.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	15.2	16.9	1570	1570	<2.00	<2.00	116	116	61.5	60.9
Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	30.3	29.5	<.300	<.300	1.88	1.88	32.7	31.4	1.70	<1.00

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404513076025872 -- Bell Cell A Vertical Pipe 4--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover-able, ug/L (01077)	Strontium, water, fltrd, ug/L (01080)	Strontium, water, unfltrd recover-able, ug/L (01082)	Terbium, water, fltrd, ug/L (50586)	Terbium, water, unfltrd, ug/L (01218)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Thorium, water, fltrd, ug/L (82365)	Thorium, water, unfltrd, ug/L (82364)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	116	117	3.96	3.68	<.100	<.100	<.200	.320

Date	Thulium, water, fltrd, ug/L (50587)	Thulium, water, unfltrd, ug/L (01245)	Tungsten, water, fltrd, ug/L (01155)	Tungsten, water, unfltrd, ug/L (01154)	Vanadium, water, fltrd, ug/L (01085)	Vanadium, water, unfltrd, ug/L (01087)	Ytterbium, water, fltrd, ug/L (01194)	Ytterbium, water, unfltrd, ug/L (01196)	Yttrium, water, fltrd, ug/L (01201)	Yttrium, water, unfltrd, ug/L (01203)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	1.86	2.26	<.500	<.500	<.500	<.500	11.3	10.3	112	111

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	Uranium, natural water, fltrd, ug/L (22703)	Uranium, natural water, unfltrd, ug/L (28011)
AUG 16...	160	--	--	--
SEP 15...	--	--	--	--
15...	208	208	.170	.200

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025818 -- Bell Cell B Vertical Pipe

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
AUG 16...	1100	1028	89203	.00	379	38	8.8	87	5.4	5.2
SEP 15...	1615	1028	89203	--	151	--	3.9	37	6.3	6.4
SEP 15...	1616	1028	1028	--	150	--	3.9	37	6.3	6.4

Date	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Calcium, water, unfltrd recoverable, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recoverable, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recoverable, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recoverable, mg/L (00929)
AUG 16...	211	14.4	16.8	--	10.7	--	1.00	--	2.40	--
SEP 15...	339	13.3	--	--	--	--	--	--	--	--
SEP 15...	340	13.3	34.2	34.0	15.7	15.6	1.65	1.58	2.71	2.73

Date	ANC, wat unfltrd fixed end pt, mg/L as CaCO3 (00417)	Acidity, water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)
AUG 16...	2.60	--	--	--	--	--	--	--	--	--
SEP 15...	41.0	--	2.98	--	--	--	113	--	--	--
SEP 15...	41.0	--	--	--	12.1	11.9	--	100	--	--

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
AUG 16...	--	--	--	400	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
SEP 15...	--	.060	.060	12.6	27.1	57.8	44.4	1.00	<1.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recoverable, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recoverable, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
AUG 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
SEP 15...	18.6	18.4	.400	.400	<.200	<.200	--	.040	.080

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025818 -- Bell Cell B Vertical Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd ug/L (01117)	Chrom- ium, water, fltrd, ug/L (01030)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt unfltrd recover- able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover- able, ug/L (01042)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	42.7	49.9	.100	.100	<1.00	<1.00	27.1	25.4	.890	1.70
Date	Dyspros- ium, water, fltrd, ug/L (82331)	Dyspros- ium, water, unfltrd ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd ug/L (01246)	Euro- pium, water, fltrd, ug/L (50574)	Euro- pium, water, unfltrd ug/L (01236)	Gado- linium, water, fltrd, ug/L (50575)	Gado- linium, water, unfltrd ug/L (01219)	Gallium water, fltrd, ug/L (01120)	Gallium water, unfltrd ug/L (01122)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	3.21	2.49	1.99	2.66	.990	1.04	4.47	4.80	<.050	<.050
Date	German- ium, water, fltrd, ug/L (01125)	German- ium, water, unfltrd ug/L (01127)	Holmium water, fltrd, ug/L (50577)	Holmium water, unfltrd ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lantha- num, water, fltrd, ug/L (01180)	Lantha- num, water, unfltrd ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)
AUG 16...	--	--	--	--	1550	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	.740	.790	240	258	29.0	31.9	<.050	.070
Date	Lithium water, fltrd, ug/L (01130)	Lithium water, unfltrd recover- able, ug/L (01132)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Molyb- denum, water, fltrd, ug/L (01060)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Neodym- ium, water, fltrd, ug/L (50579)	Neodym- ium, water, unfltrd ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)
AUG 16...	--	--	990	--	--	--	--	--	45.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	15.7	15.0	1060	1060	<2.00	<2.00	21.2	22.3	42.4	42.1
Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	5.57	6.51	<.300	<.300	2.53	2.48	4.29	3.87	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025818 -- Bell Cell B Vertical Pipe--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	134	133	.560	.590	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd ug/L (01203)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	.250	.410	<.500	<.500	<.500	<.500	2.01	2.21	23.9	24.5

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd ug/L (28011)
AUG 16...	245	--	--	--
SEP 15...	--	--	--	--
15...	84.9	114	<.100	<.100

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025836 -- Bell Cell B Vertical Pipe 2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
SEP 15...	1630	1028	89203	--	141	--	3.4	33	6.4	6.5
SEP 15...	1631	1028	1028	--	140	--	3.4	33	6.4	6.5
Date	Specif. conductance, wat unfltrd, uS/cm (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water, unfltrd recover, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Potassium water, unfltrd recover, mg/L (00937)	Sodium water, fltrd, mg/L (00930)	Sodium water, unfltrd recover, mg/L (00929)
SEP 15...	337	13.2	--	--	--	--	--	--	--	--
SEP 15...	340	13.2	34.2	34.7	15.7	15.9	1.60	1.58	2.91	3.06
Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride water, fltrd, mg/L (00940)	Fluoride water, fltrd, mg/L (00950)	Silica water, fltrd, mg/L (00955)	Silica water, unfltrd, mg/L (00956)	Sulfate water, fltrd, mg/L (00945)	Sulfate water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
SEP 15...	40.6	--	3.07	--	--	--	114	--	--	--
SEP 15...	41.0	--	--	--	11.9	12.2	--	101	--	--
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd, ug/L (01002)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	--	.050	.060	12.1	23.5	54.9	44.5	1.00	1.00	
Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover, ug/L (00998)	Bismuth water, fltrd, ug/L (01015)	Bismuth water, unfltrd, ug/L (01017)	Bromine water, unfltrd, mg/L (71871)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd, ug/L (01027)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	18.2	18.7	.300	.400	<.200	<.200	--	.030	.070	
Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover, ug/L (01042)
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15...	38.9	48.2	.110	.090	<1.00	<1.00	26.0	27.6	.680	1.90

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025836 -- Bell Cell B Vertical Pipe 2--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	2.53	3.89	2.34	1.81	.800	1.15	4.40	5.59	<.050	<.050
Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, recover-able, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recover-able, ug/L (01051)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	.580	.840	222	250	26.7	30.8	<.050	.060
Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, recover-able, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recover-able, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recover-able, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recover-able, ug/L (01067)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	15.6	14.2	1060	1070	<2.00	<2.00	18.5	22.9	43.9	44.2
Date	Praseodymium, water, fltrd, ug/L (50582)	Praseodymium, water, unfltrd, ug/L (01238)	Rhenium, water, fltrd, ug/L (50583)	Rhenium, water, unfltrd, ug/L (01242)	Rubidium, water, fltrd, ug/L (01135)	Rubidium, water, unfltrd, ug/L (01137)	Samarium, water, fltrd, ug/L (82323)	Samarium, water, unfltrd, ug/L (82322)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd, ug/L (01147)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	5.30	6.18	<.300	<.300	2.50	2.47	3.07	3.88	--	--
Date	Silver, water, fltrd, ug/L (01075)	Silver, water, recover-able, ug/L (01077)	Strontium, water, fltrd, ug/L (01080)	Strontium, water, unfltrd, recover-able, ug/L (01082)	Terbium, water, fltrd, ug/L (50586)	Terbium, water, unfltrd, ug/L (01218)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Thorium, water, fltrd, ug/L (82365)	Thorium, water, unfltrd, ug/L (82364)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	134	136	.520	.710	<.100	<.100	<.200	<.200
Date	Thulium, water, fltrd, ug/L (50587)	Thulium, water, unfltrd, ug/L (01245)	Tungsten, water, fltrd, ug/L (01155)	Tungsten, water, unfltrd, ug/L (01154)	Vanadium, water, fltrd, ug/L (01085)	Vanadium, water, unfltrd, ug/L (01087)	Ytterbium, water, fltrd, ug/L (01194)	Ytterbium, water, unfltrd, ug/L (01196)	Yttrium, water, fltrd, ug/L (01201)	Yttrium, water, unfltrd, ug/L (01203)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	.330	.270	<.500	<.500	<.500	4.75	1.94	2.08	21.2	23.9

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025836 -- Bell Cell B Vertical Pipe 2--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, unfltrd water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
SEP				
15...	--	--	--	--
15...	74.5	114	<.100	<.100

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025854 -- Bell Cell B Vertical Pipe 3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
SEP 15...	1700	1028	89203	--	128	--	3.9	38	6.3	6.4
SEP 15...	1701	1028	1028	--	130	--	3.9	38	6.3	6.4
Date	Specif. conductance, wat unfltrd, uS/cm (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Calcium, water, unfltrd, recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd, recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd, recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd, recover-able, mg/L (00929)
SEP 15...	322	13.8	--	--	--	--	--	--	--	--
SEP 15...	320	13.8	31.1	30.9	15.4	15.5	1.55	1.47	2.68	2.87
Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity, water, heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)
SEP 15...	31.0	--	2.94	--	--	--	112	--	--	--
SEP 15...	31.0	--	--	--	12.6	12.2	--	102	--	--
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd, recover-able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	--	.115	.180	21.0	99.0	68.0	58.1	<1.00	<1.00	
Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd, recover-able, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd, recover-able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)	
SEP 15...	--	--	--	--	--	--	--	--	--	
SEP 15...	20.1	19.8	.600	.700	<.200	<.200	--	<.020	.120	
Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd, ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd, ug/L (01117)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd, recover-able, ug/L (01034)	Cobalt, water, fltrd, ug/L (01035)	Cobalt, water, unfltrd, recover-able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd, recover-able, ug/L (01042)
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15...	74.5	102	.100	.110	<1.00	<1.00	34.1	32.0	<.500	4.10

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025854 -- Bell Cell B Vertical Pipe 3--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dysprosium, water, fltrd, ug/L (82331)	Dysprosium, water, unfltrd, ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd, ug/L (01246)	Europium, water, fltrd, ug/L (50574)	Europium, water, unfltrd, ug/L (01236)	Gadolinium, water, fltrd, ug/L (50575)	Gadolinium, water, unfltrd, ug/L (01219)	Gallium, water, fltrd, ug/L (01120)	Gallium, water, unfltrd, ug/L (01122)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	5.43	8.59	4.02	6.12	1.34	2.18	6.90	11.3	<.050	<.050
Date	Germanium, water, fltrd, ug/L (01125)	Germanium, water, unfltrd, ug/L (01127)	Holmium, water, fltrd, ug/L (50577)	Holmium, water, unfltrd, ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, recover-able, ug/L (01045)	Lanthanum, water, fltrd, ug/L (01180)	Lanthanum, water, unfltrd, ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recover-able, ug/L (01051)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	1.00	1.55	130	174	47.6	58.2	<.050	.100
Date	Lithium, water, fltrd, ug/L (01130)	Lithium, water, unfltrd, recover-able, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recover-able, ug/L (01055)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd, recover-able, ug/L (01062)	Neodymium, water, fltrd, ug/L (50579)	Neodymium, water, unfltrd, ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd, recover-able, ug/L (01067)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	18.9	14.8	1230	1200	<2.00	<2.00	33.4	44.1	51.7	50.6
Date	Praseodymium, water, fltrd, ug/L (50582)	Praseodymium, water, unfltrd, ug/L (01238)	Rhenium, water, fltrd, ug/L (50583)	Rhenium, water, unfltrd, ug/L (01242)	Rubidium, water, fltrd, ug/L (01135)	Rubidium, water, unfltrd, ug/L (01137)	Samarium, water, fltrd, ug/L (82323)	Samarium, water, unfltrd, ug/L (82322)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd, ug/L (01147)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	8.92	12.4	<.300	<.300	2.43	2.53	5.87	7.51	--	--
Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd, recover-able, ug/L (01077)	Strontium, water, fltrd, ug/L (01080)	Strontium, water, unfltrd, recover-able, ug/L (01082)	Terbium, water, fltrd, ug/L (50586)	Terbium, water, unfltrd, ug/L (01218)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Thorium, water, fltrd, ug/L (82365)	Thorium, water, unfltrd, ug/L (82364)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	132	132	.800	1.54	<.100	<.100	<.200	<.200
Date	Thulium, water, fltrd, ug/L (50587)	Thulium, water, unfltrd, ug/L (01245)	Tungsten, water, fltrd, ug/L (01155)	Tungsten, water, unfltrd, ug/L (01154)	Vanadium, water, fltrd, ug/L (01085)	Vanadium, water, unfltrd, ug/L (01087)	Ytterbium, water, fltrd, ug/L (01194)	Ytterbium, water, unfltrd, ug/L (01196)	Yttrium, water, fltrd, ug/L (01201)	Yttrium, water, unfltrd, ug/L (01203)
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	.380	.780	<.500	<.500	<.500	<.500	2.50	4.48	36.9	53.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025854 -- Bell Cell B Vertical Pipe 3--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, unfltrd water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
SEP				
15...	--	--	--	--
15...	77.7	150	<.100	<.100

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025872 -- Bell Cell B Vertical Pipe 4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
AUG 16...	1115	1028	89203	.00	432	82	8.4	81	4.6	4.4
SEP 15...	1715	1028	89203	--	127	--	2.0	19	7.3	7.4
15...	1716	1028	1028	--	130	--	2.0	19	7.3	7.4

Date	Specif. conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)
AUG 16...	205	13.6	14.0	--	10.6	--	.900	--	2.30	--
SEP 15...	455	13.0	--	--	--	--	--	--	--	--
15...	460	13.0	71.8	73.5	13.4	13.6	1.36	1.38	3.27	3.08

Date	ANC, wat unfltrd fixed end pt, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)
AUG 16...	.000	--	--	--	--	--	--	--	--	--
SEP 15...	108	--	3.07	--	--	--	122	--	--	--
15...	110	--	--	--	9.15	9.05	--	110	--	--

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Antimony, water, unfltrd, ug/L (01097)	Arsenic, water, fltrd, ug/L (01000)	Arsenic, water, unfltrd, ug/L (01002)
AUG 16...	--	--	--	800	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	--	<.010	<.010	17.9	91.5	34.7	46.2	<1.00	<1.00

Date	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recover-able, ug/L (00998)	Bismuth, water, fltrd, ug/L (01015)	Bismuth, water, unfltrd, ug/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)
AUG 16...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--
15...	15.9	16.6	<.050	.100	<.200	<.200	--	<.020	<.020

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025872 -- Bell Cell B Vertical Pipe 4--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cerium, water, fltrd, ug/L (01110)	Cerium, water, unfltrd ug/L (01112)	Cesium, water, fltrd, ug/L (01115)	Cesium, water, unfltrd ug/L (01117)	Chrom- ium, water, fltrd, ug/L (01030)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt unfltrd recover- able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover- able, ug/L (01042)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	1.52	8.06	.070	.070	<1.00	<1.00	2.91	3.31	<.500	.780
Date	Dyspros- ium, water, fltrd, ug/L (82331)	Dyspros- ium, water, unfltrd ug/L (82330)	Erbium, water, fltrd, ug/L (50573)	Erbium, water, unfltrd ug/L (01246)	Euro- pium, water, fltrd, ug/L (50574)	Euro- pium, water, unfltrd ug/L (01236)	Gado- linium, water, fltrd, ug/L (50575)	Gado- linium, water, unfltrd ug/L (01219)	Gallium water, fltrd, ug/L (01120)	Gallium water, unfltrd ug/L (01122)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.005	1.04	.320	1.14	<.005	.450	.370	2.15	<.050	<.050
Date	German- ium, water, fltrd, ug/L (01125)	German- ium, water, unfltrd ug/L (01127)	Holmium water, fltrd, ug/L (50577)	Holmium water, unfltrd ug/L (01247)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lantha- num, water, fltrd, ug/L (01180)	Lantha- num, water, unfltrd ug/L (01182)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)
AUG 16...	--	--	--	--	1860	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<.050	<.050	.059	.170	182	364	1.08	4.70	<.050	.070
Date	Lithium water, fltrd, ug/L (01130)	Lithium unfltrd recover- able, ug/L (01132)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Molyb- denum, water, fltrd, ug/L (01060)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Neodym- ium, water, fltrd, ug/L (50579)	Neodym- ium, water, unfltrd ug/L (01237)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)
AUG 16...	--	--	1000	--	--	--	--	--	45.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	12.1	14.1	180	196	<2.00	<2.00	.890	4.52	13.6	12.8
Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	.200	1.26	<.300	<.300	2.06	2.10	.220	1.77	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

404511076025872 -- Bell Cell B Vertical Pipe 4--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, recover able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, recover able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water unfltrd ug/L (82364)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	<3.00	<3.00	148	150	<.005	.270	<.100	<.100	<.200	<.200

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water unfltrd ug/L (01203)
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
15...	.065	.190	<.500	<.500	<.500	<.500	.630	.900	2.53	7.48

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, recover able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
AUG 16...	160	--	--	--
SEP 15...	--	--	--	--
15...	9.70	12.2	.590	.630

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146742494 -- Schuylkill R ab Bell Tunnel at Mary D, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
OCT 06...	45.5	44.5	.009	.023
NOV 05...	45.0	44.5	<.100	<.100
DEC 16...	50.0	50.0	<.100	<.100
APR 15...	35.0	90.0	--	--
MAY 18...	40.0	40.0	--	--
JUL 15...	40.0	45.0	--	--
AUG 16...	45.0	45.0	--	--
JUN 16...	45.0	50.0	--	--
SEP 15...	50.0	45.0	--	--
30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146742500 -- Schuylkill River bl Bell Tunnel at Mary D, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
OCT 06...	100	104	.060	.140
NOV 05...	106	116	<.100	.170
DEC 16...	121	121	<.100	<.100
JUN 16...	90.0	85.0	--	--
JUL 15...	80.0	90.0	--	--
AUG 16...	90.0	105	--	--
APR 15...	65.0	75.0	--	--
MAY 18...	95.0	90.0	--	--
SEP 15...	115	115	--	--
30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

01467448 -- Schuylkill River at Middleport, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
OCT 06...	.054	<.010	118	115	.018	.029	<.050	<.050	<.020	<.020
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd ug/L (01203)
OCT 06...	.008	.012	.035	.033	<.100	<.100	.044	.070	.600	.800
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd ug/L (28011)
OCT 06...	71.5	71.5	.020	.043
SEP 30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

403958076191401 -- Otto Air Shaft--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
DEC 16...	220	224	<.100	.580
MAR 31...	180	120	--	--
JUN 03...	155	165	--	--
JUL 26...	135	140	--	--
SEP 30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146784350 -- Otto Air Shaft, 400 M DS, nr Llewellyn, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water unfltrd ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)
OCT 06...	1.10	1.40	<.020	<.020	2.10	2.10	.750	1.20	<.200	<.200
DEC 16...	1.03	1.70	<.300	<.300	2.22	2.30	.720	1.56	<1.00	<1.00
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Silver, water, recover fltrd, ug/L (01075)	Silver, water, unfltrd ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd ug/L (82364)
OCT 06...	<.010	<.010	334	345	.130	.180	<.050	<.050	<.030	<.030
DEC 16...	<3.00	<3.00	334	342	.130	.250	<.100	<.100	<.200	<.200
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Thulium water, fltrd, ug/L (50587)	Thulium water unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water unfltrd ug/L (01203)
OCT 06...	.063	.096	<.020	<.020	<.100	<.100	.320	.560	3.80	4.90
DEC 16...	.054	.120	<.500	<.500	<.500	<.500	.290	.700	3.82	5.91
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, recover able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)
OCT 06...	172	178	.035	.420
DEC 16...	205	224	<.100	.620
MAR 31...	180	130	--	--
JUN 03...	155	155	--	--
JUL 26...	125	140	--	--
SEP 30...	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146784338 -- Muddy Branch ab Otto Mine Discharge nr Branchdale, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Thulium water, fltrd, ug/L (50587)	Thulium water unfltrd ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water unfltrd ug/L (01203)
OCT 06...	.016	.029	<.020	.086	<.100	<.100	.089	.160	1.20	2.00
DEC 16...	.006	.040	<.500	<.500	<.500	1.00	.040	.230	.580	2.63
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water unfltrd ug/L (28011)	
OCT 06...		130	132	.034	.066
DEC 16...		92.3	106	<.100	.130
MAR 31...		80.0	85.0	--	--
JUN 03...		115	110	--	--
JUL 26...		105	115	--	--
SEP 30...		--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
ACID MINE DRAINAGE PROJECTS IN THE UPPER SCHUYLKILL RIVER BASIN**

0146784354 -- Muddy Branch bl Otto Mine Discharge ab Steins, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Praseo- dymium, water, fltrd, ug/L (50582)	Praseo- dymium, water, unfltrd, ug/L (01238)	Rhenium water, fltrd, ug/L (50583)	Rhenium water, unfltrd, ug/L (01242)	Rubid- ium, water, fltrd, ug/L (01135)	Rubid- ium, water, unfltrd, ug/L (01137)	Samar- ium, water, fltrd, ug/L (82323)	Samar- ium, water, unfltrd, ug/L (82322)	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd, ug/L (01147)
OCT 06...	--	--	--	--	--	--	--	--	--	--
OCT 06...	--	--	--	--	--	--	--	--	--	--
DEC 16...	.300	1.06	<.300	<.300	2.14	2.17	.160	.990	<1.00	<1.00
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Silver, water, unfltrd, recover- able, ug/L (01075)	Silver, water, unfltrd, recover- able, ug/L (01077)	Stront- ium, water, fltrd, ug/L (01080)	Stront- ium, water, unfltrd, recover- able, ug/L (01082)	Terbium water, fltrd, ug/L (50586)	Terbium water, unfltrd, ug/L (01218)	Thall- ium, water, fltrd, ug/L (01057)	Thall- ium, water, unfltrd, ug/L (01059)	Thorium water, fltrd, ug/L (82365)	Thorium water, unfltrd, ug/L (82364)
OCT 06...	--	--	--	--	--	--	--	--	--	--
OCT 06...	--	--	--	--	--	--	--	--	--	--
DEC 16...	<3.00	<3.00	278	284	.030	.170	<.100	<.100	<.200	<.200
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Thulium water, fltrd, ug/L (50587)	Thulium water, unfltrd, ug/L (01245)	Tung- sten, water, fltrd, ug/L (01155)	Tung- sten, water, unfltrd, ug/L (01154)	Vanad- ium, water, fltrd, ug/L (01085)	Vanad- ium, water, unfltrd, ug/L (01087)	Ytterb- ium, water, fltrd, ug/L (01194)	Ytterb- ium, water, unfltrd, ug/L (01196)	Yttrium water, fltrd, ug/L (01201)	Yttrium water, unfltrd, ug/L (01203)
OCT 06...	--	--	--	--	--	--	--	--	--	--
OCT 06...	--	--	--	--	--	--	--	--	--	--
DEC 16...	.010	.082	<.500	<.500	<.500	<.500	.060	.480	1.29	4.19
MAR 31...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, unfltrd, recover- able, ug/L (01090)	Zinc, water, unfltrd, recover- able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Uranium natural water, unfltrd, ug/L (28011)
OCT 06...	--	--	--	--
OCT 06...	--	--	--	--
DEC 16...	143	167	<.100	.410
MAR 31...	105	115	--	--
JUN 03...	125	135	--	--
JUL 26...	105	115	--	--
SEP 30...	--	--	--	--

