01467689 PINE KNOT DISCHARGE 500 METERS BELOW TUNNEL AT DUNCOTT, PA

Undefined Aquifer
Undefined Aquifer

Schuylkill County, PA

LOCATION.--Lat 40°42'14.9", long 76°14'59.7" referenced to North American Datum of 1927, Schuylkill County, PA, Hydrologic Unit 02040203, on left bank, behind the Duncott Municipal Building, at Duncott.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2007 to July 05, 2010 (discontinued).

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Schuylkill Headwaters Association and the Schuylkill County Conservation District.

REMARKS.--Some values for filtered parameters exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods. Station operated as part of the Schuylkill RGI/Pine Knot AMD project.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 3

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; ft^3/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Discharge, instanta-neous, ft^3/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conduc-tance, water, unfiltered, µS/cm at 25°C (00095)	Tempera-ture, water, °C (00010)	Oxidation reduction potential, relative to the standard hydrogen electrode (SHE), millivolts (63002)	Calcium, water, filtered, mg/L (00915)
11-22-2011	1100	31	9.9	89	6.4	6.5	530	10.8	310	36.8
01-09-2012	1300	33	10.3	92	6.4	6.4	520	10.4	300	33.0
02-07-2012	0930	32	10.8	96	6.4	--	520	10.2	320	--
02-22-2012	1030	25	8.8	79	6.5	6.5	530	10.6	300	35.8
03-13-2012	1100	21	10.7	97	6.4	--	540	10.6	280	--
04-03-2012	1115	18	10.3	93	6.6	6.9	540	10.9	260	36.9
05-07-2012	0900	16	10.2	92	6.8	6.7	540	10.8	270	36.7
05-22-2012	0945	48	9.5	88	5.7	--	530	11.4	350	--
06-06-2012	0900	43	9.6	89	5.8	--	510	11.5	360	--
06-19-2012	1130	31	9.5	88	6.1	6.5	500	11.6	310	32.3
07-31-2012	1000	17	10.6	97	6.3	6.7	530	11.1	270	36.5

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01467689, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01467689.2012.pdf

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 2 of 3
[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; ft^3/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Magne-sium, water, filtered, mg/L (00925)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (00417)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Aluminum, water, filtered, µg/L (01106)	Aluminum, water, unfiltered, recover-able, µg/L (01105)	Iron, water, filtered, µg/L (01046)
11-22-2011	1100	37.8	12.7	37	-24	19.2	204	100	430	3,180
01-09-2012	1300	35.4	11.6	35	-25	18.4	202	160	430	3,110
02-07-2012	0930	--	--	--	--	--	--	--	--	--
02-22-2012	1030	35.3	12.2	33	-22	19.3	201	140	420	3,710
03-13-2012	1100	--	--	--	--	--	--	--	--	--
04-03-2012	1115	36.5	12.0	41	-30	20.1	203	130	430	4,140
05-07-2012	0900	36.7	13.3	38	--	22.0	203	130	410	3,950
05-22-2012	0945	--	--	--	--	--	--	--	--	--
06-06-2012	0900	--	--	--	--	--	--	--	--	--
06-19-2012	1130	33.7	13.7	30	--	22.2	186	80	540	2,770
07-31-2012	1000	36.7	13.0	38	--	19.7	199	< 50	340	4,670

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 3 of 3
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Date	Sample start time	Iron, water, unfiltered, recover-able, µg/L (01045)	Manga-nese, water, filtered, µg/L (01056)	Manga-nese, water, unfiltered, recover-able, µg/L (01055)	Nickel, water, filtered, µg/L (01065)	Nickel, water, unfiltered, recover-able, µg/L (01067)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover-able, µg/L (01092)
11-22-2011	1100	3,610	1,830	1,680	41.2	39.7	94.0	84.5
01-09-2012	1300	3,440	1,740	1,650	40.5	38.6	100	91.0
02-07-2012	0930	--	--	--	--	--	--	--
02-22-2012	1030	4,060	1,800	1,730	40.0	38.8	92.4	81.8
03-13-2012	1100	--	--	--	--	--	--	--
04-03-2012	1115	4,780	1,840	1,910	38.0	40.8	86.9	82.6
05-07-2012	0900	4,140	1,860	1,870	38.5	40.9	90.0	77.9
05-22-2012	0945	--	--	--	--	--	--	--
06-06-2012	0900	--	--	--	--	--	--	--
06-19-2012	1130	3,670	1,690	1,680	39.8	40.6	98.8	94.8
07-31-2012	1000	5,270	1,870	1,880	36.4	37.7	72.6	68.7

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 1 of 2
[%, percent; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; E, estimated]

Date	Sample start time	Discharge, instantaneous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Oxidation reduction potential, relative to the standard hydrogen electrode (SHE), millivolts (63002)	Sulfate, water, filtered, mg/L (00945)	Aluminum, water, unfiltered, recoverable, µg/L (01105)
11-19-2010	**1245**	E 21	9.6	87	6.4	600	10.8	370	--	--
03-07-2011	**1315**	E 51	8.8	78	5.3	560	10.1	460	210	6,100
06-24-2011	**1430**	E 34	11.6	101	6.4	560	11.2	330	--	--
08-26-2011	**1315**	E 18	10.9	100	6.8	580	11.1	230	--	--
09-23-2011	**1030**	E 56	9.8	90	6.1	610	11.4	340	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 2 of 2
[%, percent; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; E, estimated]

Date	Sample start time	Iron, water, unfiltered, recoverable, µg/L (01045)	Manganese, water, unfiltered, recoverable, µg/L (01055)
11-19-2010	**1245**	--	--
03-07-2011	**1315**	12,800	2,570
06-24-2011	**1430**	--	--
08-26-2011	**1315**	--	--
09-23-2011	**1030**	--	--

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Date	Sample start time	Discharge, instantaneous, ft^3/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Oxidation reduction potential, relative to the standard hydrogen electrode (SHE), millivolts (63002)	Calcium, water, filtered, mg/L (00915)
12-15-2009	**1115**	31	9.6	87	6.8	6.4	600	10.8	290	39.2
03-16-2010	**1230**	38	9.5	85	5.7	6.1	590	10.6	330	36.5
06-14-2010	**1200**	16	10.7	97	7.3	6.7	580	10.8	300	40.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 2 of 3
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Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (00417)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Aluminum, water, filtered, µg/L (01106)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Iron, water, filtered, µg/L (01046)
12-15-2009	**1115**	45.0	9.62	34	-19	16.2	248	120	1,230	5,680
03-16-2010	**1230**	42.0	7.93	26	-11	14.4	257	170	2,620	5,550
06-14-2010	**1200**	39.3	11.7	42	-30	20.9	227	60	420	6,000

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WATER-QUALITY DATA
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Date	Sample start time	Iron, water, unfiltered, recoverable, µg/L (01045)	Manganese, water, filtered, µg/L (01056)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Nickel, water, filtered, µg/L (01065)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recoverable, µg/L (01092)
12-15-2009	**1115**	6,310	2,460	2,420	60.3	57.8	152	130
03-16-2010	**1230**	8,610	2,480	2,520	70.7	72.5	224	198
06-14-2010	**1200**	5,760	2,180	2,160	41.4	40.1	81.1	73.7