

Water-Data Report 2010

01463558 ASSUNPINK LAKE AT COOLEYS CORNER, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°13'10", long 74°31'25" referenced to North American Datum of 1983, Upper Freehold Township, Monmouth County, NJ, Hydrologic Unit 02040105, at outlet on Assunpink Creek, 0.5 mi northwest of Cooleys Corner, 2.0 mi east of Carsons Mills, 2.3 mi upstream from New Sharon Branch, and 3.0 mi west of Roosevelt.

DRAINAGE AREA.--8.65 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to August 2010.

REMARKS.--Cooperative Network Site Descriptor: Development of Mercury-Bioaccumulation Factors special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 3

[%, percent; NTRU, nephelometric turbidity ratio unit; cm, centimeter; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	filtered, units per centimeter (50624)	Absorbance, UV, organic	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Absorbance, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Dissolved oxygen, water, unfiltered, mg/L (00300)
05-10-2010	1000	Surface water	Regular	768	12.5	.148	.117	--	--	
05-10-2010	1001	QC sample - Surface water	Sequential Replicate	--	--	.145	.115	--	--	
05-10-2010	1001	Surface water	Regular	768	--	--	--	--	--	4.7
05-10-2010	1002	Surface water	Regular	768	--	--	--	--	--	8.0
05-10-2010	1003	Surface water	Regular	768	--	--	--	--	--	8.9
06-16-2010	0815	QC sample - Artificial	Field Blank	--	--	.003	.003	--	--	
06-16-2010	0845	QC sample - Artificial	Field Blank	--	--	--	--	--	--	
06-16-2010	0915	Surface water	Regular	765	23.0	.164	.124	--	--	
06-16-2010	0916	Surface water	Regular	765	--	--	--	--	--	5.7
06-16-2010	0917	Surface water	Regular	765	--	--	--	--	--	8.4
06-16-2010	0918	Surface water	Regular	765	--	--	--	--	--	8.9
08-16-2010	1015	QC sample - Artificial	Field Blank	--	--	<.001	<.001	--	--	
08-16-2010	1045	QC sample - Artificial	Field Blank	--	--	--	--	--	--	
08-16-2010	1130	Surface water	Regular	759	31.0	.162	.120	--	--	
08-16-2010	1131	QC sample - Surface water	Sequential Replicate	--	--	.159	.118	--	--	
08-16-2010	1131	Surface water	Regular	759	--	--	--	--	--	3.2
08-16-2010	1132	Surface water	Regular	759	--	--	--	--	--	4.0
08-16-2010	1133	Surface water	Regular	759	--	--	--	--	--	5.1

01463558 ASSUNPINK LAKE AT COOLEYS CORNER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

[%, percent; NTRU, nephelometric turbidity ratio unit; cm, centimeter; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than]

Date	Dissolved oxygen, water, unfiltered, % saturation	pH, water, unfiltered, field, standard units (00301) (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling depth, ft (00003)	Depth of sensor below water surface, feet (72147)	Sulfate, water, filtered, mg/L (00945)	Mercury, water, unfiltered, nanograms per liter (50286)
05-10-2010	--	6.8	108	--	3.9	1.00	--	12.9	.83
05-10-2010	--	--	--	--	--	1.00	--	12.6	.76
05-10-2010	46	--	--	16.4	--	--	13.50	--	--
05-10-2010	82	--	--	16.8	--	--	6.00	--	--
05-10-2010	82	--	--	17.0	--	--	1.00	--	--
06-16-2010	--	--	--	--	--	--	--	<.18	--
06-16-2010	--	--	--	--	--	--	--	--	.06
06-16-2010	--	9.2	104	--	21	1.00	--	10.9	1.25
06-16-2010	71	--	--	24.2	--	--	12.00	--	--
06-16-2010	100	--	--	24.5	--	--	6.00	--	--
06-16-2010	106	--	--	24.2	--	--	1.00	--	--
08-16-2010	--	--	--	--	--	--	--	<.18	--
08-16-2010	--	--	--	--	--	--	--	--	<.04
08-16-2010	--	7.2	125	--	25	1.00	--	6.17	.79
08-16-2010	--	--	--	--	--	1.00	--	6.20	.75
08-16-2010	39	--	--	25.2	--	--	12.00	--	--
08-16-2010	49	--	--	25.2	--	--	6.00	--	--
08-16-2010	60	--	--	25.5	--	--	1.00	--	--

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Date	Methyl- mercury, water, filtered, recoverable, nanograms per liter (50285)	Organic carbon, water, filtered, mg/L (00681)
05-10-2010	.09	5.0
05-10-2010	.09	5.1
05-10-2010	--	--
05-10-2010	--	--
05-10-2010	--	--
06-16-2010	--	.3
06-16-2010	<.04	--
06-16-2010	<.04	7.1
06-16-2010	--	--
06-16-2010	--	--
06-16-2010	--	--
08-16-2010	--	.6
08-16-2010	<.04	--
08-16-2010	<.04	8.5
08-16-2010	.05	8.7
08-16-2010	--	--
08-16-2010	--	--
08-16-2010	--	--