

## Water-Data Report 2007

**01443000 DELAWARE RIVER AT PORTLAND, PA**

## DELAWARE RIVER BASIN

LOCATION.--Lat 40°55'26", long 75°05'46" referenced to North American Datum of 1927, Portland Borough, Northampton County, PA, Hydrologic Unit 02040105, at footbridge connecting Portland, PA and Columbia, NJ, 0.5 mi upstream from Paulins Kill, and at river mile 207.5.

DRAINAGE AREA.--4,165 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). Cooperative Network Site Descriptor: Delaware River Main Stem, NJ Department of Environmental Protection Watershed Management Area 1. The sample on Feb 12 included a Volatile Organic Compound assessment.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Turbdty Instan- taneous dis- charge, cfs (00061)	UV white light, det ang 90+/-30 corctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, μS/cm 25 degC (00095)	Temper- ature, wat unf air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)
Nov 13...	1100	12,900	3.8	.100	.075	751	11.3	100	7.1	75	13.0	9.4	21
Feb 12...	1030	3,780	1.0	.053	.039	760	14.1		6.9	--	.1	.0	29
May 09...	0920	4,790	1.0	.055	.042	759	10.7	107	7.4	102	20.0	15.2	28
Aug 08...	1210	5,800	2.6	.079	.059	746	8.2	103	7.5	105	29.0	26.8	28

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	ANC, wat unf fixed						Chlor- ide, lab, mg/L as CaCO <sub>3</sub>	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed mg/L as CaCO <sub>3</sub>	Chlor- ide, lab, mg/L as CaCO <sub>3</sub>								
Nov 13...	6.36	1.23	.68	5.17	16	7.58	<.10	3.6	6.84	42	47	3	.16	
Feb 12...	8.71	1.70	.79	6.73	21	10.0	E.05	3.0	8.40	54	54	5	.26	
May 09...	8.44	1.59	.71	7.35	20	11.3	<.10	1.2	7.82	51	49	1	.18	
Aug 08...	8.56	1.63	.80	7.38	21	11.4	<.10	1.9	7.48	53	72	5	.12	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Nitrate water, fltrd, mg/L as N (00608)	Nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp., water, fltrd, mg/L (49570)	Total nitro- gen, water, fltrd, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)	
	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp., water, fltrd, mg/L (49570)	Total nitro- gen, water, fltrd, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)	
Nov 13...	.020	.21	<.02	.36	--	.024	.012	.020	<.1	<.1	<.1	<.1	2.6	6.7
Feb 12...	.045	.35	<.02	.61	--	E.009	.010	.017	.3	<.1	.3	<.1	1.9	7.1
May 09...	E.008	.15	.03	.33	.36	E.004	E.007	.013	<.1	<.1	<.1	<.1	1.9	7.0
Aug 08...	.034	.20	.08	.32	.40	.012	.018	.031	.5	<.1	.5	<.1	2.5	8.8

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,1,1,2 -Tetra- chloro- ethane, water, unfltrd	1,1,1- Tri- chloro- ethane, water, unfltrd	1,1,2,2 -Tetra- chloro- ethane, water, unfltrd	CFC-113	1,1,2- Tri- chloro- ethane, water, unfltrd	1,1-Di- chloro- ethane, water, unfltrd	1,1-Di- chloro- ethene, water, unfltrd	1,1-Di- chloro- propene	1,2,3,4 -Tetra- methyl- benzene	1,2,3,5 -Tetra- methyl- benzene	1,2,3- Tri- chloro- benzene	1,2,3- Tri- chloro- propane	1,2,3- Tri- methyl- benzene	
	µg/L (77562)	µg/L (34506)	µg/L (34516)		µg/L (77652)	µg/L (34511)	µg/L (34496)	µg/L (34501)	µg/L (77168)	µg/L (49999)	µg/L (50000)	µg/L (77613)	µg/L (77443)	µg/L (77221)
Nov														
13...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb														
12...	<.04	<.04	<.10	<.04	<.04	<.06	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1
May														
09...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug														
08...	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,2,4- Tri- chloro- benzene water, unfltrd	1,2,4- Tri- methyl- benzene water, unfltrd	Dibromo- chloro- propane water, unfltrd	1,2-Di- bromo- ethane, water, unfltrd	1,2-Di- chloro- benzene water, unfltrd	1,2-Di- chloro- ethane, water, unfltrd	1,2-Di- chloro- propane water, unfltrd	1,3,5- Tri- methyl- benzene water, unfltrd	1,3-Di- chloro- benzene water, unfltrd	1,3-Di- chloro- propane water, unfltrd	1,4-Di- chloro- benzene water, unfltrd	2,2-Di- chloro- propane water, unfltrd	2- Chloro- toluene water, unfltrd	
	µg/L (34551)	µg/L (77222)	µg/L (82625)	µg/L (77651)	µg/L (34536)	µg/L (32103)	µg/L (34541)	µg/L (77226)	µg/L (34566)	µg/L (77173)	µg/L (34571)	µg/L (77170)	µg/L (77275)	
Nov														
13...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb														
12...	<.1	<.04	<.5	<.04	<.04	<.1	<.02	<.04	<.04	<.1	<.04	<.06	<.04	<.04
May														
09...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug														
08...	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	2-Ethyl-toluene water, unfltrd µg/L (77220)	3-Chloro-propene water, unfltrd µg/L (78109)	4-Chloro-toluene water, unfltrd µg/L (77277)	4-Iso-propyl-toluene water, unfltrd µg/L (77356)	Acetone	Acrylo-nitrile water, unfltrd µg/L (34215)	Benzene	Bromo-benzene water, unfltrd µg/L (81555)	Bromo-chloro-methane water, unfltrd µg/L (77297)	Bromo-di-chloro-methane water, unfltrd µg/L (32101)	Bromo-ethene, water, unfltrd µg/L (50002)	Bromo-methane water, unfltrd µg/L (34413)	Carbon di-sulfide water, unfltrd µg/L (77041)
Nov 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 12...	<.04	<.08	<.04	<.08	<6	<.4	<.02	<.02	<.06	<.04	<.1	<.4	<.06
May 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 08...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Chloro-benzene water, unfltrd µg/L (34301)	Chloro-ethane, water, unfltrd µg/L (34311)	Chloro-methane water, unfltrd µg/L (34418)	cis-1,2-Di-chloro-ethene, water, unfltrd µg/L (77093)	cis-1,3-Di-chloro-propene water, unfltrd µg/L (34704)	Di-bromo-chloro-methane water, unfltrd µg/L (32105)	Di-bromo-methane water, unfltrd µg/L (30217)	Di-chloro-fluoro-methane water, unfltrd µg/L (34668)	Di-chloro-methane water, unfltrd µg/L (34423)	Di-ethyl ether, water, unfltrd µg/L (81576)	Diisopropyl ether, water, unfltrd µg/L (81577)	Ethyl methacrylate, water, unfltrd µg/L (73570)	Ethyl methyl ketone, water, unfltrd µg/L (81595)
Nov 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 12...	<.02	<.1	<.1	<.02	<.06	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6
May 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 08...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Ethyl-benzene water, unfltrd	Hexa-chloro-butadiene, water, unfltrd	Hexa-chloro-ethane, water, unfltrd	Iodo-methane water, unfltrd	Iso-butyyl methyl ketone, water, unfltrd	Iso-propylbenzene water, unfltrd	Methyl acrylonitrile water, unfltrd	Methyl acrylate, water, unfltrd	Methyl methacrylate, water, unfltrd	Methyl tert-pentyl ether, water, unfltrd	meta-+ para-Xylene, water, unfltrd	Naphthalene, water, unfltrd	Methyl n-butyl ketone, water, unfltrd
	µg/L (34371)	µg/L (39702)	µg/L (34396)	µg/L (77424)	µg/L (78133)	µg/L (77223)	µg/L (81593)	µg/L (49991)	µg/L (81597)	µg/L (50005)	µg/L (85795)	µg/L (34696)	µg/L (77103)
Nov 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 12...	<.02	<.1	<.1	<.40	<.2	<.04	<.4	<.4	<.2	<.04	<.08	<.4	<.4
May 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 08...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	n-Butyl benzene water, unfltrd	n-propylbenzene water, unfltrd	o-Xylene, water, unfltrd	sec-Butylbenzene water, unfltrd	Styrene water, unfltrd	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	tert-Butylbenzene water, unfltrd	Tetra-chloroethene, water, unfltrd	Tetra-chloromethane, water, unfltrd	Tetra-hydrofuran, water, unfltrd	Toluene water, unfltrd	trans-1,2-Dichloroethene, water, unfltrd
	µg/L (77342)	µg/L (77224)	µg/L (77135)	µg/L (77350)	µg/L (7728)	µg/L (50004)	µg/L (78032)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)	µg/L (34546)
Nov 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 12...	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.08	<.04	<.08	<1	E.02	<.02
May 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 08...	--	--	--	--	--	--	--	--	--	--	--	--	--

**01443000 DELAWARE RIVER AT PORTLAND, PA—Continued**

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 7 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	trans- 1,3-Di- chloro- propene water, unfltrd	trans- 1,4-Di- chloro- butene, wat unf	Tri- bromo- water, unfltrd	Tri- chloro- ethene, unfltrd	Tri- fluoro- methane, unfltrd	Tri- chloro- methane, unfltrd	Vinyl chlor- ide, water, unfltrd
	µg/L (34699)	µg/L (73547)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)
<b>Nov</b>							
<b>13...</b>	--	--	--	--	--	--	--
<b>Feb</b>							
<b>12...</b>	<.10	<.6	<.08	<.02	<.08	<.04	<.1
<b>May</b>							
<b>09...</b>	--	--	--	--	--	--	--
<b>Aug</b>							
<b>08...</b>	--	--	--	--	--	--	--