Water-Data Report 2008

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°35′41″, long 75°11′23″ referenced to North American Datum of 1983, Pohatcong Township, Warren County, NJ, Hydrologic Unit 02040105, on left bank of suspension bridge at Riegelsville, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931), and at river mile 174.8. Water-quality samples are collected from the bridge and are not affected by the flow of the Musconetcong River.

DRAINAGE AREA.--6,328 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, water years 1906-71. Annual maximum, water years 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.12 ft above NGVD of 1929.

COOPERATION.--Gage operated in cooperation with the Delaware River Joint Toll Bridge Commission.

REMARKS.--Satellite stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340,000 ft^3/s, Aug 19, 1955, gage height, 38.85 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Maximum discharge, 106,000 ft^3/s, Mar 10 at 0000, gage height, 20.90 ft.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

REMARKS.--Cooperative Network Site Descriptor: Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11. The samples on Feb 25 and Jun 3 included volatile organic compound and filtered pesticide assessments, respectively.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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 2007 TO SEPTEMBER 2008
Part 1 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Instantaneous discharge, ft3/s (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov													
28...	1045	E9,740	9.2	.116	.089	771	12.2	97	7.5	125	4.5	5.5	38
Feb													
25...	1045	E23,200	2.7	.053	.038	757	13.3	96	7.5	159	4.5	1.9	45
Jun													
03...	1015	E6,210	1.4	.058	.044	754	8.4	93	8.0	214	25.0	20.4	72
Aug													
26...	1000	E3,460	.8	.050	.038	760	7.0	82	7.9	230	18.5	22.8	75

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov													
28...	10.6	2.85	1.01	8.38	25	13.2	<.12	4.3	10.8	69	76	12	.25
Feb													
25...	12.2	3.61	.91	11.0	31	18.4	<.12	4.2	11.3	83	87	4	.17
Jun													
03...	18.5	6.24	1.42	11.3	53	18.7	<.12	3.6	18.0	E114	119	3	.18
Aug													
26...	18.8	6.82	1.65	14.1	56	20.1	E.06	2.3	18.3	E120	120	4	.21

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)
Nov													
28...	.032	.55	.10	.80	.90	.018	.019	.046	1.1	<.04	1.1	3.2	--
Feb													
25...	.022	.76	.04	.93	.97	.011	.016	.023	.4	<.04	.4	1.9	.20
Jun													
03...	E.007	.90	.13	1.1	1.2	.037	.041	.057	1.4	M	1.4	2.1	--
Aug													
26...	.018	.89	.04	1.1	1.1	.063	.072	.076	.3	<.04	.3	2.0	.48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recoverable, µg/L (01007)	Beryllium, water, unfltrd recoverable, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recoverable, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recoverable, µg/L (01034)	Copper, water, unfltrd recoverable, µg/L (01042)	Iron, water, unfltrd recoverable, µg/L (01045)	Lead, water, unfltrd recoverable, µg/L (01051)	Manganese, water, unfltrd recoverable, µg/L (01055)	Mercury water, unfltrd recoverable, µg/L (71900)	Nickel, water, unfltrd recoverable, µg/L (01067)
Nov													
28...	--	--	--	9.0	--	--	--	--	--	--	--	--	--
Feb													
25...	<.60	23.6	E.02	8.3	E6	.05	E.27	E1.1	127	.30	27.8	<.010	1.2
Jun													
03...	--	--	--	14	--	--	--	--	--	--	--	--	--
Aug													
26...	E.49	23.8	<.04	14	15	.03	E.24	E1.2	41	.16	14.8	<.010	.53

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Selenium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover-able, µg/L (01077)	Zinc, water, unfltrd recover-able, µg/L (01092)
Nov			
28...	--	--	--
Feb			
25...	.10	<.02	10.3
Jun			
03...	--	--	--
Aug			
26...	.21	<.02	3.8

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 1 of 7
[Remark codes: <, less than; E, estimated.]

Date	1-Naphthol, water, fltrd 0.7u GF µg/L (49295)	2,6-Diethylaniline water, fltrd 0.7u GF µg/L (82660)	2Chloro-2',6'-diethyl acetanilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methylaniline water, fltrd, µg/L (61620)	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinphosmethyl oxon, water, fltrd, µg/L (61635)
Jun													
03...	<.04	<.006	<.010	E.020	<.010	E.006	<.008	<.005	.008	<.006	<.006	.045	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 7
[Remark codes: <, less than; E, estimated.]

Date	Azinphosmethyl, water, fltrd 0.7u GF µg/L (82686)	Benfluralin, water, fltrd 0.7u GF µg/L (82673)	Carbaryl, water, fltrd 0.7u GF µg/L (82680)	Carbofuran, water, fltrd 0.7u GF µg/L (82674)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)	cis-Permethrin water fltrd 0.7u GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)
Jun													
03...	<.120	<.010	E.014	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 7
[Remark codes: <, less than; E, estimated.]

Date	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7u GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7u GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethoprop, water, fltrd 0.7u GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)
Jun													
03...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 7
[Remark codes: <, less than; E, estimated.]

Date	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)	Desulfinylfipronil amide, wat flt µg/L (62169)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)	Metalaxyl, water, fltrd, µg/L (61596)
Jun													
03...	<.20	<.03	<.029	<.013	<.024	E.006	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 7
[Remark codes: <, less than; E, estimated.]

Date	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7u GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7u GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)
Jun													
03...	<.004	<.01	<.008	.015	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 7
[Remark codes: <, less than; E, estimated.]

Date	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd 0.7u GF µg/L (82676)	Propanil, water, fltrd 0.7u GF µg/L (82679)	Propargite, water, fltrd 0.7u GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7u GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7u GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)
Jun													
03...	E.01	<.006	<.004	<.006	<.04	.018	<.02	<.003	<.04	<.02	<.01	<.010	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 7 of 7
[Remark codes: <, less than; E, estimated.]

Date	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7u GF µg/L (82661)	Dichlorvos, water, fltrd, µg/L (38775)
Jun			
03...	<.035	<.009	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 1 of 7
[Remark codes: <, less than; E, estimated.]

Date	1,1,1,2-Tetrachloroethane, water, unfltrd µg/L (77562)	1,1,1-Trichloroethane, water, unfltrd µg/L (34506)	1,1,2,2-Tetrachloroethane, water, unfltrd µg/L (34516)	CFC-113 water, unfltrd µg/L (77652)	1,1,2-Trichloroethane, water, unfltrd µg/L (34511)	1,1-Dichloroethane, water, unfltrd µg/L (34496)	1,1-Dichloroethene, water, unfltrd µg/L (34501)	1,1-Dichloropropene water, unfltrd µg/L (77168)	1,2,3,4-Tetramethylbenzene water, unfltrd µg/L (49999)	1,2,3,5-Tetramethylbenzene water, unfltrd µg/L (50000)	1,2,3-Trichlorobenzene water, unfltrd µg/L (77613)	1,2,3-Trichloropropane water, unfltrd µg/L (77443)	1,2,3-Trimethylbenzene water, unfltrd µg/L (77221)
Feb													
25...	<.04	<.02	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 7
[Remark codes: <, less than; E, estimated.]

Date	1,2,4-Tri-chloro-benzene water, unfltrd µg/L (34551)	1,2,4-Tri-methyl-benzene water, unfltrd µg/L (77222)	Dibromo chloro-propane water, unfltrd µg/L (82625)	1,2-Di-bromo-ethane, water, unfltrd µg/L (77651)	1,2-Di-chloro-benzene water, unfltrd µg/L (34536)	1,2-Di-chloro-ethane, water, unfltrd µg/L (32103)	1,2-Di-chloro-propane water, unfltrd µg/L (34541)	1,3,5-Tri-methyl-benzene water, unfltrd µg/L (77226)	1,3-Di-chloro-benzene water, unfltrd µg/L (34566)	1,3-Di-chloro-propane water, unfltrd µg/L (77173)	1,4-Di-chloro-benzene water, unfltrd µg/L (34571)	2,2-Di-chloro-propane water, unfltrd µg/L (77170)	2-Chloro-toluene water, unfltrd µg/L (77275)
Feb													
25...	<.1	<.04	<.5	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 7
[Remark codes: <, 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 water, unfltrd µg/L (81552)	Acrylo-nitrile water, unfltrd µg/L (34215)	Benzene water, unfltrd µg/L (34030)	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)	Tri-bromo-methane water, unfltrd µg/L (32104)	Bromo-methane water, unfltrd µg/L (34413)
Feb													
25...	<.04	<.08	<.04	<.08	<4	<.4	E.01	<.02	<.06	<.04	<.1	<.08	<.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 7
[Remark codes: <, less than; E, estimated.]

Date	Carbon di-sulfide water, unfltrd µg/L (77041)	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-di-fluoro-methane wat unf µg/L (34668)	Di-chloro-methane water, unfltrd µg/L (34423)	Di-ethyl ether, water, unfltrd µg/L (81576)	Diiso-propyl ether, water, unfltrd µg/L (81577)	Ethyl methac-rylate, water, unfltrd µg/L (73570)
Feb													
25...	<.06	<.02	<.1	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 7
[Remark codes: <, less than; E, estimated.]

Date	Ethyl methyl ketone, water, unfltrd µg/L (81595)	Ethyl-benzene water, unfltrd µg/L (34371)	Hexa-chloro-buta-diene, water, unfltrd µg/L (39702)	Hexa-chloro-ethane, water, unfltrd µg/L (34396)	Iodo-methane water, unfltrd µg/L (77424)	Iso-butyl methyl ketone, water, unfltrd µg/L (78133)	Iso-propyl-benzene water, unfltrd µg/L (77223)	Methyl acrylo-nitrile water, unfltrd µg/L (81593)	Methyl acryl-ate, water, unfltrd µg/L (49991)	Methyl methac-rylate, water, unfltrd µg/L (81597)	Methyl tert-pentyl ether, water, unfltrd µg/L (50005)	meta- + para-Xylene, water, unfltrd µg/L (85795)	Naphth-alene, water, unfltrd µg/L (34696)
Feb													
25...	<1.6	<.04	<.1	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 7
[Remark codes: <, less than; E, estimated.]

Date	Methyl n-butyl ketone, water, unfltrd µg/L (77103)	n-Butyl benzene water, unfltrd µg/L (77342)	n-Propyl-benzene water, unfltrd µg/L (77224)	o-Xylene, water, unfltrd µg/L (77135)	sec-Butyl-benzene water, unfltrd µg/L (77350)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	tert-Butyl-benzene water, unfltrd µg/L (77353)	Tetra-chloro-ethene, water, unfltrd µg/L (34475)	Tetra-chloro-methane water, unfltrd µg/L (32102)	Tetra-hydro-furan, water, unfltrd µg/L (81607)	Toluene water, unfltrd µg/L (34010)
Feb													
25...	<.6	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	E.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 7 of 7
[Remark codes: <, less than; E, estimated.]

Date	trans-1,2-Di-chloro-ethene, water, unfltrd µg/L (34546)	trans-1,3-Di-chloro-propene water, unfltrd µg/L (34699)	trans-1,4-Di-chloro-2-butene, wat unf µg/L (73547)	Tri-chloro-ethene, water, unfltrd µg/L (39180)	Tri-chloro-fluoro-methane water, unfltrd µg/L (34488)	Tri-chloro-methane water, unfltrd µg/L (32106)	Vinyl chlor-ide, water, unfltrd µg/L (39175)
Feb							
25...	<.02	<.10	<.6	<.02	<.08	<.02	<.1