



Water-Data Report 2009

01482580 SALEM CANAL AT U.S. ROUTE 130, AT DEEPWATER, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°40'54", long 75°29'29" referenced to North American Datum of 1983, Pennsville Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on U.S. Route 130 in Deepwater, 1.0 mi upstream from mouth, 2.0 mi northeast of Pennsville, and 3.5 mi south of Penns Grove.

DRAINAGE AREA.--58.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2007-09.

GAGE.--Reference point only.

REMARKS.--Almost the entire flow of the upper Salem River is diverted through the Salem (Deepwater) Canal, some of which is used for industrial water supply.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft³/s
May 5, 2009	13.9

01482580 SALEM CANAL AT U.S. ROUTE 130, AT DEEPWATER, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007 to current year.

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

[Remark codes: <, less than.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat un- f μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	CBOD, water, unfltrd 5 day, mg/L (80082)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Sus- pended solids, water, unfltrd mg/L (00530)
May 05...	0900	765	13.5	14	6.1	61	6.7	283	16.1	20	<1.0	174	22

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

[Remark codes: <, less than.]

Date	ANC, wat un- fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Chloro- phyll a phyto- plank- ton, fluoro, μg/L (70953)	Pheo- phytin a, phyto- plank- ton, μg/L (62360)	Iron, water, unfltrd recover- able, μg/L (01045)	Boron, water, unfltrd recover- able, μg/L (01022)	Organic carbon, water, unfltrd mg/L (00680)
May 05...	43	35.6	1.2	.234	.831	.02	.13	2.0	31.4	22.1	1,800	30	12.4