

## Water-Data Report 2009

**01443466 NELDONS BROOK AT SWARTSWOOD ROAD, AT SWARTSWOOD, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 41°05'05.24", long 74°49'37.02" referenced to North American Datum of 1927, Stillwater Township, Sussex County, NJ, Hydrologic Unit 02040105, at bridge on Swartswood Road in Swartswood, 0.5 mi upstream from Swartswood Lake, and 2.7 mi northeast of Middleville.

DRAINAGE AREA.--9.68 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2004-05, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 1.

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 2008 TO SEPTEMBER 2009**

Part 1 of 5

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

Date	Time	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfiltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30 90+/-30 corrctd	Dis-solved solids, dried @ 180degC wat flt (63676)	Dis-solved solids, sum of constituents, mg/L (70300)
<b>Dec</b>												
15...	0900	757	10.0	.208	.160	--	--	7.3	113	2.9	1.8	72
<b>Feb</b>												
26...	0900	759	7.0	.082	.062	12.3	88	7.4	199	1.5	.8	113
<b>Jun</b>												
03...	0900	752	23.5	.111	.085	8.7	90	7.7	201	16.5	.7	130
<b>Sep</b>												
03...	0900	756	18.5	.135	.101	9.2	92	7.8	198	15.7	.5	116
												E102

## 01443466 NELDONS BROOK AT SWARTSWOOD ROAD, AT SWARTSWOOD, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 5

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

Date	ANC,						Inor-						
	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	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)	wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Total carbon, susnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	ganic carbon, susnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, fltrd, mg/L (00945)
Dec 15...	26	1	7.59	1.83	.74	11.4	16	.3	17.1	.13	<.04	4.8	8.41
Feb 26...	39	<1	11.5	2.51	.69	19.8	21	<.2	34.9	<.08	<.04	5.5	11.1
Jun 03...	46	1	14.0	2.75	.64	19.0	30	.2	33.6	E.06	<.04	5.3	8.88
Sep 03...	51	<1	15.5	2.93	.78	17.4	37	E.1	29.8	E.05	<.04	6.8	6.21

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 5

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

Date	Ammonia		Nitrate	Ortho-	Partic-	Beryll-			Chrom-				
	+ org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	+ nitrite water, fltrd, mg/L as N (00631)	phos- phate, water, fltrd, mg/L as P (00671)	phos- phorus, water, fltrd, mg/L as P (49570)	partic- ulate nitro- gen, susp, water, mg/L as P (00666)	Phos- phorus, water, fltrd, mg/L as P (00665)	Phos- phorus, water, unfltrd, mg/L as P (00602)	Total nitro- gen, water, fltrd, mg/L (00600)	Total nitro- gen, water, unfltrd, recover able, mg/L (01007)	Barium, water, unfltrd, recover able, mg/L (01012)	Beryll- ium, water, unfltrd, recover able, mg/L (01027)	Chrom- ium, water, unfltrd, recover able, mg/L (01034)
Dec 15...	.23	.015	.08	E.005	.05	E.008	.014	.31	.36	--	--	--	--
Feb 26...	.16	.013	.12	E.005	E.01	E.005	E.006	.28	E.29	17.7	<.02	<.06	<.40
Jun 03...	.24	.010	.12	.010	.03	.011	.014	.36	.40	--	--	--	--
Sep 03...	.22	<.010	.11	.012	.03	.015	.015	.33	.36	18.1	<.02	<.06	<.40

**01443466 NELDONS BROOK AT SWARTSWOOD ROAD, AT SWARTSWOOD, NJ—Continued**

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 5

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

Date	Mangan-												Organic carbon, susnd sedimt total, mg/L (00689)
	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)	Arsenic water, filtrd, unfltrd μg/L (01000)	Arsenic water, unfltrd μg/L (01002)	Boron, water, unfltrd recover -able, μg/L (01022)	Selen- ium, water, unfltrd μg/L (01147)	
Dec 15...	--	--	--	--	--	--	--	--	--	--	--	--	.27
Feb 26...	<4.0	115	E.07	13.8	<.010	.59	<.06	E1.5	.16	E.17	<14	<.12	<.12
Jun 03...	--	--	--	--	--	--	--	--	--	--	--	--	.21
Sep 03...	<4.0	230	E.07	7.9	<.010	.56	<.06	E1.1	.39	.43	14	E.09	<.12

**WATER-QUALITY  
DATA  
WATER YEAR  
OCTOBER 2008 TO  
SEPTEMBER 2009**

Part 5 of 5

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

Date	Organic carbon, water, filtrd, mg/L (00681)
Dec 15...	5.3
Feb 26...	2.4
Jun 03...	3.2
Sep 03...	3.5