



Water-Data Report 2009

01409455 SPRINGERS BROOK NEAR HAMPTON FURNACE, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°45'19", long 74°41'46" referenced to North American Datum of 1983, Shamong Township, Burlington County, NJ, Hydrologic Unit 02040301, at downstream side of bridge on Hampton Road, 1.3 mi southwest of Hampton Furnace, 1.7 mi downstream from Bard Branch, and 3.7 mi southeast of Indian Mills.

DRAINAGE AREA.--18.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1996-98, 2004-09. Annual maximum gage-height, water years 2005-06.

GAGE.--Reference point only.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.36 ft, Oct 14, 2005.

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

Date	Discharge, in ft ³ /s
Nov 12, 2008	7.96
Feb 23, 2009	9.08
May 19, 2009	32.3
Aug 27, 2009	11.6

01409455 SPRINGERS BROOK NEAR HAMPTON FURNACE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1977-78, 1996-98, 2004-06, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 14.

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 6

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

Date	Time	Medium name	Sample type	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)	Instan-taneous dis-charge, ft³/s (00061)
Nov 12...	0930	Surface water	Regular	771	8.0	.317	.246	8.0
Feb 23...	0830	QC sample	Field Blank	--	--	--	--	--
23...	0900	Surface water	Regular	765	.0	.305	.237	9.1
May 19...	1000	Surface water	Regular	773	15.5	.868	.681	32
Aug 27...	1000	Surface water	Regular	762	25.5	1.24	.980	12

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

Part 2 of 6

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

Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, unfltrd water, field, std units (00400)	Specif-ic conduc-tance, wat unf field, μS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30 degC @ water, corrcrd (00010)	Dis-solved solids, 180degC wat flt NTRU (63676)	Dis-solved solids, sum of constituents, wat flt mg/L (70300)	Dis-solved solids, Hard-ness, water, mg/L as CaCO3 (70301)	Sus-pended solids, water, unfltrd mg/L (00900)	Magnes-iun, water, fltrd, mg/L (00530)	Potas-sium, water, fltrd, mg/L (00915)	Magnes-iun, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)
Nov 12...	10.2	86	6.7	186	7.5	1.3	117	E95	42	4	9.40	4.61	3.72
Feb 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	12.8	88	6.7	164	.3	1.5	92	E87	35	2	7.83	3.85	2.77
May 19...	7.3	72	6.4	133	13.8	2.2	114	E66	30	4	6.57	3.26	2.30
Aug 27...	6.1	72	6.4	131	23.6	5.8	113	E68	30	5	6.63	3.38	2.88

01409455 SPRINGERS BROOK NEAR HAMPTON FURNACE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 6

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

Date	ANC, wat unf fixed	Total carbon, suspnd	Inor- ganic carbon, suspnd	Ammonia + org-N, water, filtrd,	Nitrate + nitrite, water, filtrd,	Ortho- phosphate, water, filtrd,	Partic- ulate nitro- gen, susp, water, mg/L						
	Sodium, water, filtrd, mg/L	CaCO ₃ (00930)	end pt, lab, sedimnt total,	Chlor- ide, water, filtrd,	Fluor- ide, water, filtrd,	Silica, water, filtrd, mg/L	Sulfate water, filtrd, mg/L	as N (00623)	Ammonia water, filtrd, mg/L	as N (00608)	nitrite water, filtrd, mg/L	as P (00671)	as N (00631)
Nov 12...	13.0	11	.3	25.6	<.08	<.04	6.0	24.4	.37	.040	.43	E.003	.05
Feb 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	13.2	E7	.3	23.4	<.08	<.04	3.7	20.4	2.9	.391	1.56	E.002	.03
May 19...	11.2	13	.5	20.8	E.06	<.04	2.6	10.4	.69	.033	.30	<.010	.07
Aug 27...	10.8	15	.9	20.2	E.04	<.04	6.1	8.41	1.5	.052	.13	E.006	.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 6

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

Date	Phos- phorus, water, filtrd, mg/L	Phos- phorus, water, unfiltrd mg/L	Total nitro- gen, water, filtrd,	Total nitro- gen, water, unfiltrd	Barium, water, unfiltrd recover -able,	Beryll- ium, water, unfiltrd recover -able,	Cadmium water, unfiltrd recover -able,	Chrom- ium, water, unfiltrd Copper, water, unfiltrd recover -able,	Copper, water, unfiltrd recover -able,	Iron, water, unfiltrd recover -able,	Lead, water, unfiltrd recover -able,		
	as P (00666)	as P (00665)	mg/L (00602)	mg/L (00600)	mg/L (01007)	µg/L (01012)	µg/L (01027)	µg/L (01034)	µg/L (01040)	µg/L (01042)	µg/L (01045)	µg/L (01049)	µg/L (01051)
Nov 12...	E.006	.014	.81	.86	--	--	--	--	--	--	--	--	--
Feb 23...	--	--	--	--	--	--	--	<1.0	--	--	<.06	--	--
23...	.013	.018	4.5	4.5	30.0	.03	<.06	E.26	--	5.4	530	--	.47
May 19...	.025	.036	1.0	1.1	--	--	--	--	--	--	--	--	--
Aug 27...	.024	.042	1.6	1.7	35.0	.03	<.06	.46	--	<4.0	3,150	--	.97

01409455 SPRINGERS BROOK NEAR HAMPTON FURNACE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 6

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

Date	Manganese, water, unfiltrd recover -able, μg/L (01055)		Mercury water, unfiltrd recover -able, μg/L (71890)		Nickel, water, unfiltrd recover -able, μg/L (01065)		Silver, water, unfiltrd recover -able, μg/L (01067)		Zinc, water, unfiltrd recover -able, μg/L (01090)		Arsenic, water, unfiltrd recover -able, μg/L (01000)		Arsenic, water, unfiltrd recover -able, μg/L (01002)		Boron, water, unfiltrd recover -able, μg/L (01022)	Selenium, water, unfiltrd recover -able, μg/L (01147)	Organic carbon, susnd sedimt total, mg/L (00689)
	Mercury water, unfiltrd recover -able, μg/L (71900)	Nickel, water, unfiltrd recover -able, μg/L (01065)	Zinc, water, unfiltrd recover -able, μg/L (01092)	Arsenic, water, unfiltrd recover -able, μg/L (01000)	Arsenic, water, unfiltrd recover -able, μg/L (01002)	Boron, water, unfiltrd recover -able, μg/L (01022)	Selenium, water, unfiltrd recover -able, μg/L (01147)	Organic carbon, susnd sedimt total, mg/L (00689)									
Nov																	
12...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.32	
Feb																	
23...	--	<.010	--	<.12	--	--	<2.0	--	<.06	--	--	--	--	--	--	--	
23...	11.7	--	<.010	--	.69	<.06	--	8.1	.45	.50	16	E.10	.29				
May																	
19...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.48	
Aug																	
27...	31.7	--	<.010	--	1.1	<.06	--	6.7	1.5	2.2	22	.19	.87				

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009

Part 6 of 6

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

Date	Organic carbon, water, filtrd, mg/L (00681)
Nov	
12...	7.4
Feb	
23...	--
23...	6.9
May	
19...	15.6
Aug	
27...	21.4