

Water-Data Report 2007

01464527 BLACKS CREEK AT CHESTERFIELD, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°06'34", long 74°38'30" referenced to North American Datum of 1983, Chesterfield Township, Burlington County, NJ, Hydrologic Unit 02040201, at bridge on Chesterfield-Georgetown Road, 0.4 mi south of Chesterfield, 2.2 mi north of Georgetown, and 2.4 mi upstream of Bacons Run.

DRAINAGE AREA.--8.91 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Discharge, in ft³/s
Nov 16, 2006	20.7
Feb 13, 2007	6.77
May 15, 2007	7.77
Aug 16, 2007	1.76

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001 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: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 20.

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: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity 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 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 16...	1130	21	33	.301	.243	757	9.1	91	6.8	146	21.5	15.2	46
Feb 13...	1110	6.8	12	.082	.070	770	14.1	104	7.0	219	2.0	2.7	68
May 15...	0950	7.8	16	.183	.149	762	8.1	84	6.9	191	23.5	17.4	62
Aug 16...	1030	1.8	19	.220	.180	759	5.9	67	6.9	237	24.0	21.8	81

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

Part 2 of 3

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

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 (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 16...	12.1	3.89	6.39	5.31	27	12.4	.20	9.5	13.1	85	94	12	.40
Feb 13...	18.3	5.50	4.20	8.27	27	22.0	.29	12.7	25.8	124	125	11	.26
May 15...	16.3	5.08	4.11	8.00	33	17.9	.30	7.9	19.3	103	116	6	.44
Aug 16...	22.4	5.97	5.18	9.38	56	25.3	.42	8.9	13.6	126	141	7	.36

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, 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 carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 16...	.077	1.14	.10	1.5	1.6	E.008	.013	.183	1.0	<.1	1.0	4.8	30
Feb 13...	.062	2.33	.12	2.6	2.7	E.006	.008	.065	.9	<.1	.9	1.5	24
May 15...	.076	.96	.13	1.4	1.5	E.004	.017	.109	.9	<.1	.9	4.1	31
Aug 16...	.067	.39	.07	.75	.82	E.003	.025	.121	.7	<.1	.7	4.4	34