



Water-Data Report 2006

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 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft ³ /s
Nov 9, 2005	8.81
Feb 23, 2006	10.7
May 16, 2006	15.2
Aug 21, 2006	1.33

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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Agricultural Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 20.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

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

Date	Time	Turbdty white Instan- taneous dis- charge, corrctd	UV absorb- ance, light, det ang 90+/-30	UV absorb- ance, 254 nm, wat flt	Baro- metric pres- sure, wat flt units	Dis- solved oxygen, mm Hg	Dis- solved oxygen, mg/L	pH, water, unfltrd percent of sat- uration	Specif. conduct- ance, field, std units	Temper- ature, wat unf uS/cm	Temper- ature, air, deg C	Temper- ature, water, deg C	Hard- ness, water, mg/L as CaCO ₃
(00061)	cfs (63676)	NTRU (50624)	/cm (61726)	/cm (00025)	(00300)	(00301)	(00400)	(25 degC (00095))	(00020)	(00010)	(00010)	(00900)	
Nov 09...	0940	8.8	9.4	.154	.127	762	9.5	87	6.5	190	15.5	11.4	64
Feb 23...	1110	11	16	.114	.094	759	12.8	99	--	199	4.5	4.3	57
May 16...	1040	15	20	.207	.165	750	8.1	85	6.9	189	12.0	16.8	62
Aug 21...	0950	1.3	35	.187	.160	759	5.7	64	6.7	224	23.5	21.2	77

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 5

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

Date	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, filtrd, mg/L as N (00623)
(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70301)	(70300)	(00530)	(00623)	
Nov 09...	17.3	4.96	5.69	6.67	32	18.5	.28	12.6	19.8	109	131	7	.33
Feb 23...	14.8	4.87	3.85	10.2	22	22.5	.25	10.2	21.4	112	114	7	.25
May 16...	17.4	4.40	3.47	7.94	37	18.4	.38	7.3	16.9	100	125	6	.50
Aug 21...	21.2	5.90	4.81	8.19	48	22.8	.35	10.0	16.3	122	128	10	.37

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Ammonia water, filtrd, mg/L as N (00608)	Nitrite + nitrate water, filtrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, filtrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Phosphorus, water, filtrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (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, filtrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
Nov 09...	.056	.76	.20	1.1	1.3	E.005	.008	.072	1.2	<.1	1.1	4.3	2.5
Feb 23...	.097	2.33	.14	2.6	2.7	E.005	.006	.092	.8	<.1	.8	1.8	<1.0
May 16...	.130	.45	.20	.95	1.1	E.004	.013	.136	1.4	<.1	1.4	4.4	E1.6
Aug 21...	.072	.76	.08	1.1	1.2	.018	.008	.166	.7	<.1	.7	3.1	E1.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Arsenic water, filtrd, ug/L (01000)	Arsenic water, unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	Beryllium, water, unfltrd recover -able, ug/L (01012)	Boron, water, unfltrd recover -able, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd recover -able, ug/L (01027)	Chromium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	Manganese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)
Nov 09...	--	--	--	--	31	--	--	--	--	--	--	--	--
Feb 23...	.38	1.1	21.3	E.04	23	23	.06	1.4	E.5	2,430	.30	115	<.010
May 16...	--	--	--	--	29	--	--	--	--	--	--	--	--
Aug 21...	.46	1.4	26.7	<.06	32	31	E.02	.61	.7	4,640	.22	166	<.010

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd recover -able, ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
Nov 09...	--	--	--	--
Feb 23...	6.61	.12	<.16	11
May 16...	--	--	--	--
Aug 21...	2.92	.11	<.16	3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	2,4-D methyl ester, water, filtrd, ug/L (50470)	2,4-DB water, water, filtrd, ug/L (39732)	CIAT, filtrd 0.7u GF	CEAT, water, filtrd, ug/L (04040)	OIET, water, filtrd, ug/L (04038)	Hydroxy carbo- furan, wat flt 0.7u GF	Aci- fluor- fen, water, filtrd 0.7u GF	Aldi- carb sulfone water, filtrd 0.7u GF	Aldi- carb oxide, wat flt 0.7u GF	Aldi- carb, water, filtrd, ug/L (49312)	Atra- zine, water, filtrd, ug/L (39632)	
May 16...	1040	<.190	E.15	<.02	<.03	<.08	E.038	<.008	<.028	<.02	<.100	<.15	.052

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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Date	Bendio- carb, water, filtrd, ug/L (50299)	Bensul- furon- methyl, water, filtrd, ug/L (50300)	Ben- tazon, methyl, water, filtrd, ug/L (61693)	Broma- oxynil, water, filtrd 0.7u GF	Caf- feine, water, filtrd 0.7u GF	Car- baryl, water, filtrd 0.7u GF	Carbo- furan, water, filtrd 0.7u GF	Chlor- aben- methyl ester, water, filtrd 0.7u GF	Chlori- muron, water, filtrd 0.7u GF	Chloro- di- amino- s-tri- azine, water, filtrd 0.7u GF	Clopyr- alid, water, filtrd ug/L (49305)		
May 16...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	.03	<.016	<.02	<.032	<.04	<.07

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

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[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

	Dacthal mono-	Di- chlor-											
Cyclo-	acid, water, water, fltrd	Dicamba water, fltrd	prop, water, water, fltrd	Dinoseb water, fltrd	Diphen- amid, water, fltrd	Diuron, water, water, fltrd	Fenuron water, fltrd	Flumet- sulam, water, fltrd	meturon water, fltrd	Imaza- quin, water, fltrd	Imaze- thapyr, water, fltrd,	Imida- cloprid water, fltrd,	
Date	0.7u GF ug/L (04031)	0.7u GF ug/L (49304)	0.7u GF ug/L (38442)	0.7u GF ug/L (49302)	0.7u GF ug/L (49301)	0.7u GF ug/L (04033)	0.7u GF ug/L (49300)	0.7u GF ug/L (49297)	0.7u GF ug/L (61694)	0.7u GF ug/L (38811)	0.7u GF ug/L (50356)	0.7u GF ug/L (50407)	0.7u GF ug/L (61695)
May													
16...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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				Methio-	Meth-		N-(4-						
Linuron water, fltrd	MCPA, water, fltrd	MCPB, water, fltrd	Meta- laxyl, water, fltrd	Methio- carb, water, fltrd	Meth- omyl, water, fltrd	Metsul- furon, water, fltrd	Chloro- phenyl) -N'- methyl- urea, water, fltrd	Neburon water, fltrd	Nico- sul- furon, water, fltrd	Norflur azon, water, fltrd	Ory- zalin, water, fltrd	Oxamyl, water, fltrd	
Date	0.7u GF ug/L (38478)	0.7u GF ug/L (38482)	0.7u GF ug/L (38487)	0.7u GF ug/L (50359)	0.7u GF ug/L (38501)	0.7u GF ug/L (49296)	0.7u GF ug/L (61697)	0.7u GF ug/L (61692)	0.7u GF ug/L (49294)	0.7u GF ug/L (50364)	0.7u GF ug/L (49293)	0.7u GF ug/L (49292)	0.7u GF (38866)
May													
16...	<.01	E.02	<.10	M	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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	Pic- loram, water, fltrd	Propham water, fltrd	Propi- cona- zole, water, fltrd	Pro- poxur, water, fltrd	Sulfo- met- ruron, water, fltrd	Tebu- thiuron water, fltrd	Terba- cil, water, fltrd	Tri- clopyr, water, fltrd
Date	0.7u GF ug/L (49291)	0.7u GF ug/L (49236)	0.7u GF ug/L (50471)	0.7u GF ug/L (38538)	0.7u GF ug/L (38548)	0.7u GF ug/L (50337)	0.7u GF ug/L (82670)	0.7u GF ug/L (04032)
May								
16...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026
								<.03

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enter-		Fecal	
		cocci, m-E	MF, water, water, col/	E coli, m-TEC	coli- form, ECbroth MPN/
		100 mL (31649)	100 mL (31633)	100 mL (31615)	
May					
03...	1005	15.6	30	150	20
10...	0935	13.0	110	370	<20
17...	1010	14.6	160	170	230
24...	0930	15.9	60	50	500
31...	1010	20.3	310	20	130