

Water-Data Report 2006

01411400 FISHING CREEK AT RIO GRANDE, NJ

FISHING CREEK BASIN

LOCATION.--Lat 39°01'39", long 74°53'47" referenced to North American Datum of 1983, Middle Township, Cape May County, NJ, Hydrologic Unit 02040206, at bridge on State Route 47 at Wildwood Pumping Station, 1.4 mi northwest of Rio Grande, and 2.7 mi upstream of mouth.

DRAINAGE AREA.--2.29 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1965-72, 1990-92. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft³/s
Nov 22, 2005	4.72
Feb 21, 2006	3.05
May 23, 2006	1.24
Aug 15, 2006	0.19

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1965, 1998 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: Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 16.

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, and total suspended residue, were performed by the NJ Department of Health and Senior Services. Determinations of fecal coliform, E. coli, and enterococcus bacteria were performed by the NJDEP, Bureau of Marine Water Monitoring Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Nov 22...	1020	4.7	1.8	.573	.443	736	9.6	85	6.7	186	6.0	8.7	53
Feb 21...	1210	3.0	1.4	.649	.505	764	12.1	91	6.4	139	5.0	3.9	31
May 23...	1200	1.2	2.7	.839	.656	767	8.2	86	6.8	128	14.5	18.3	31
Aug 15...	1200	.19	2.9	.771	.588	760	5.1	63	6.8	151	31.5	26.0	38

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

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

Date	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)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, 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 + org-N, water, fltrd, mg/L as N (00623)
Nov 22...	13.3	4.84	2.29	13.8	17	20.1	<.10	9.7	31.1	105	134	3	.48
Feb 21...	7.68	2.88	1.21	12.4	13	20.3	<.10	5.5	14.1	73	104	3	.45
May 23...	7.90	2.73	1.34	10.8	17	17.9	<.10	3.5	8.74	63	106	7	.65
Aug 15...	10.1	3.17	1.50	11.3	26	18.8	<.10	5.8	8.95	75	124	4	.77

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Particulate 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)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
Nov 22...	.031	<.06	.07	--	--	E.008	.017	.041	.7	<.1	.7	13.0	E1.1
Feb 21...	.048	.25	.07	.71	.77	E.008	.005	.013	.4	<.1	.4	13.0	<1.0
May 23...	.042	<.06	.12	--	--	E.006	.013	.023	1.2	<.1	1.2	15.6	E1.4
Aug 15...	.058	<.06	.20	--	--	E.006	.019	.046	1.6	<.1	1.6	16.6	E2.3

**WATER-QUALITY
DATA**

**WATER YEAR
OCTOBER 2005 TO
SEPTEMBER 2006**

Part 4 of 4

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

Date	Boron, water, fltrd, ug/L (01020)
Nov 22...	26
Feb 21...	21
May 23...	23
Aug 15...	32

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
Jul					
20...	1045	28.0	20	20	20
27...	1000	27.0	20	28	<20
Aug					
03...	0930	28.0	18	15	<20
10...	1000	27.0	5	<3	<20
17...	1000	27.0	15	5	<20