

01411400 FISHING CREEK AT RIO GRANDE, NJ

LOCATION.--Lat 39°01'39", long 74°53'47", Cape May County, Hydrologic Unit 02040206, at bridge on State Route 47 at Wildwood Pumping Station, and 1.4 mi northwest of Rio Grande.

DRAINAGE AREA.--2.29 mi².

PERIOD OF RECORD.--Water year 1965, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Environmental Protection, Bureau of Marine Water Monitoring Laboratory. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	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 unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)
NOV 05...	1050	0.76	0.9	0.611	0.465	767	9.6	82	6.2	224	11.0	8.5	69
MAR 12...	1020	3.4	0.9	0.724	0.561	765	10.9	87	6.3	134	6.5	5.7	31
MAY 22...	0950	2.7	1.3	0.965	0.758	764	8.9	91	6.1	127	14.0	16.4	33
SEP 03...	1000	1.3	2.0	1.20	0.938	763	4.3	53	6.5	137	24.5	25.2	37

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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 unfltrd 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 at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
NOV 05...	18.1	5.69	1.49	13.5	12	19.8	<0.17	7.7	54.5	128	175	3	0.55
MAR 12...	7.65	2.80	1.30	11.4	12	19.2	<0.17	5.6	15.8	73	107	<1	0.44
MAY 22...	8.37	2.95	1.56	11.9	16	20.6	<0.17	3.9	10.0	70	107	2	0.60
SEP 03...	10.2	2.75	1.46	10.2	22	19.4	<0.17	13.5	7.3	78	142	5	0.90

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd total, mg/L (00694)	Inorganic carbon, suspnd total, mg/L (00688)	Organic carbon, suspnd total, mg/L (00689)
NOV 05...	<0.030	<0.030	E.03	<0.003	<0.020	0.05	0.010	0.019	--	E.62	0.3	<0.1	0.3
MAR 12...	<0.030	<0.030	0.43	0.004	0.023	0.04	0.005	0.010	0.87	0.91	0.2	<0.1	0.2
MAY 22...	<0.030	<0.030	0.19	0.007	<0.020	0.04	0.006	0.012	0.79	0.83	0.5	<0.1	0.5
SEP 03...	0.116	0.112	E.03	0.010	<0.020	0.14	0.017	0.038	--	E1.1	0.9	<0.1	0.9

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Chlorophyll a fluorometric method, corrctd ug/L (32209)	Boron, water, fltrd, ug/L (01020)
NOV 05...	17.6	E1.4	--	25
MAR 12...	15.3	<1.0	--	30
MAY 22...	18.3	<1.0	4.00	26
SEP 03...	23.1	2.1	21.0	30

Remark codes used in this table:

< -- Less than

E -- Estimated value

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, ECbroth water, MPN/ 100 mL (31615)	Date	Time	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, ECbroth water, MPN/ 100 mL (31615)
JUN 12...	0800	23	20	13	JUL 07...	1223	28	10	40
19...	0830	50	65	30	10...	0730	82	27	9
26...	0818	30	10	53					