

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°34'14", long 74°40'45" referenced to North American Datum of 1983, Branchburg Township, Somerset County, NJ, Hydrologic Unit 02030105, on right bank, 400 ft upstream from U.S. Route 202, 1.4 mi upstream from confluence with South Branch Raritan River, and 2.7 mi west of Raritan.

DRAINAGE AREA.--190 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1923 to current year. Monthly discharge only for June 1923, published in WSP 1302. Prior to October 1943, published as "at Milltown".

REVISED RECORDS.--WSP 1552: 1924-26, 1928-35. WDR NJ-79-1: 1971-78(P). WDR US-2011: 1997(P), 2004-10(P).

GAGE.--Water-stage recorder. Concrete control since Sep 1, 1936. Datum of gage is 50.43 ft above NGVD of 1929. Prior to Oct 17, 1936, non-recording gage at site 30 ft downstream at same datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. From Dec 10, 2010 water-stage recorder at station at North Branch Raritan River at South Branch (01400010), located just above the confluence with South Branch Raritan River, used as auxiliary gage when stage was above 3.40 ft to adjust for variable backwater. Some releases from Round Valley Reservoir enter stream upstream from gage (see 01399669 and 01399670). Occasional regulation due to gate operation at Ravine Lake, 13.8 mi upstream. Several measurements of water temperature were made during the year. National Weather Service telephone and USGS satellite telemetry at station.

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 1997, and 2004-2010 have been revised as shown in the following table. These values supersede figures published in the water data reports for water years 1997, and 2004-2010.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1997	Oct 19, 1996	*27,400	*15.44	2007	Mar 2, 2007	6,990	10.27
2004	Jul 23, 2004	*11,200	*11.95	2007	Apr 16, 2007	*11,400	*13.21
2004	Sep 29, 2004	7,090	10.50	2008	Dec 24, 2007	5,020	8.71
2005	Nov 28, 2004	4,660	8.67	2008	Feb 13, 2008	6,750	10.61
2005	Apr 3, 2005	*6,250	*10.34	2008	Mar 8, 2008	*7,720	*11.42
2006	Oct 9, 2005	*8,020	*10.88	2009	Dec 12, 2008	*6,950	*10.57
2006	Oct 12, 2005	5,160	9.69	2009	Aug 3, 2009	6,040	9.51
2006	Nov 30, 2005	5,000	8.46	2010	Dec 9, 2009	5,340	9.05
2006	Dec 16, 2005	4,990	8.55	2010	Dec 27, 2009	6,940	9.13
2006	Jan 18, 2006	4,380	7.83	2010	Jan 25, 2010	5,750	9.32
2006	Jun 28, 2006	7,160	10.72	2010	Mar 14, 2010	*14,400	*13.90
2007	Oct 28, 2006	5,120	8.43	2010	Mar 23, 2010	4,890	8.28
2007	Nov 8, 2006	5,580	9.69	2010	Mar 29, 2010	4,960	8.21
2007	Jan 1, 2007	5,190	8.91	2010	Mar 30, 2010	5,160	9.12

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 1	1445	6,600	8.98
Mar 7	0730	6,650	10.01
Mar 11	0745	5,770	9.52
Apr 17	0700	8,330	11.17
Aug 28	1215	*27,800	*17.96
Sep 7	0545	6,630	10.11
Sep 8	1415	11,500	12.72

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,440	67	1,680	123	230	803	440	567	258	120	89	744
2	559	65	792	159	389	526	423	501	245	113	72	546
3	315	70	339	188	e405	433	354	462	225	171	61	431
4	273	214	275	134	e166	368	342	673	212	217	75	364
5	268	370	230	126	e190	346	363	562	208	138	70	326
6	243	174	191	103	e360	1,260	353	417	206	120	61	1,850
7	173	133	164	114	e390	4,010	373	385	195	116	97	3,970
8	135	116	141	76	e530	1,260	332	350	186	177	96	6,440
9	115	108	113	114	e445	945	350	321	181	281	133	2,620
10	100	98	99	111	e330	1,900	313	295	238	133	149	1,760
11	93	95	119	137	e270	4,010	304	278	231	113	81	1,280
12	124	83	914	169	e267	1,510	597	265	229	111	66	972
13	96	79	1,040	176	e243	1,200	2,000	253	202	111	62	741
14	93	77	338	160	e279	946	738	251	218	94	1,890	604
15	141	77	229	176	e530	732	521	756	310	85	1,460	536
16	108	80	210	178	e295	1,110	1,030	1,140	200	79	881	474
17	94	272	170	168	486	788	4,690	743	616	75	364	405
18	91	178	149	232	1,070	615	e1,140	1,400	279	73	330	374
19	94	124	140	413	1,060	529	e885	1,210	212	72	324	347
20	85	110	132	377	430	455	e780	886	191	83	384	333
21	78	103	136	237	377	606	e620	695	175	157	364	325
22	75	99	136	153	306	670	e515	520	161	160	997	336
23	70	95	123	134	262	913	e1,040	457	189	166	278	637
24	71	90	116	141	245	1,310	e870	965	278	166	215	1,450
25	73	84	108	176	2,390	854	e860	485	246	189	263	503
26	72	100	95	194	1,230	612	e615	423	206	282	263	411
27	80	101	101	248	645	528	894	378	181	92	382	371
28	92	90	131	250	1,100	485	1,660	334	159	72	15,500	1,670
29	80	84	135	242	---	431	1,010	302	146	104	2,390	1,160
30	71	84	120	239	---	400	660	351	131	96	1,610	689
31	69	---	128	228	---	389	---	290	---	77	1,100	---
Total	7,471	3,520	8,794	5,676	14,920	30,944	25,072	16,915	6,714	4,043	30,107	32,669
Mean	241	117	284	183	533	998	836	546	224	130	971	1,089
Max	3,440	370	1,680	413	2,390	4,010	4,690	1,400	616	282	15,500	6,440
Min	69	65	95	76	166	346	304	251	131	72	61	325
Cfsm	1.27	0.62	1.49	0.96	2.80	5.25	4.40	2.87	1.18	0.69	5.11	5.73
In.	1.46	0.69	1.72	1.11	2.92	6.06	4.91	3.31	1.31	0.79	5.89	6.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	189	281	369	394	428	533	477	338	231	191	198	184
Max	882	824	1,077	1,416	948	1,551	1,368	1,027	1,270	1,291	1,068	1,089
(WY)	(1997)	(1973)	(1997)	(1979)	(1925)	(2010)	(1983)	(1989)	(1972)	(1984)	(1942)	(2011)
Min	26.6	46.1	73.1	79.4	87.5	163	117	84.1	46.4	25.5	22.3	14.8
(WY)	(1931)	(1965)	(1966)	(1940)	(2002)	(1981)	(1985)	(1926)	(1965)	(1966)	(1932)	(1964)

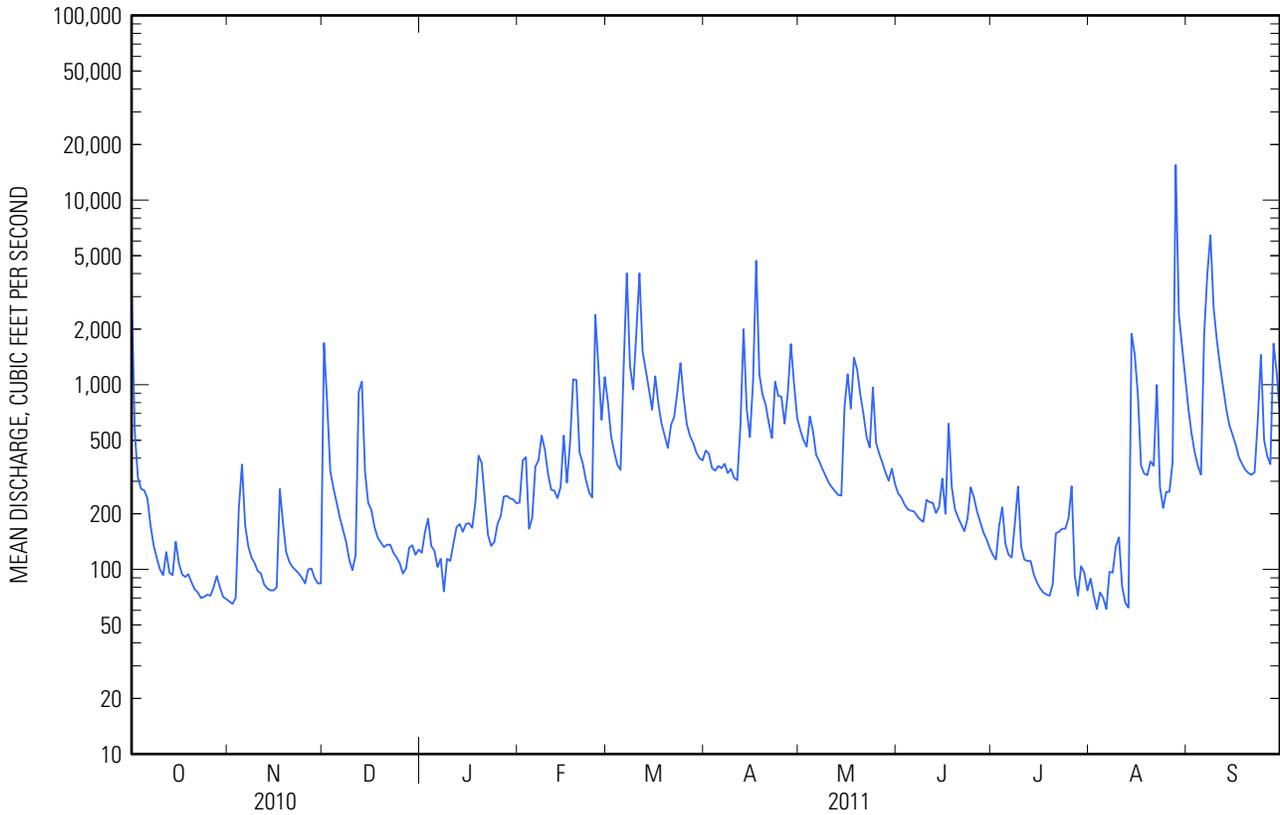
01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1924 - 2011	
Annual total	139,224		186,845			
Annual mean	381		512		317	
Highest annual mean					605	1984
Lowest annual mean					120	1965
Highest daily mean	11,600	Mar 14	15,500	Aug 28	15,500	Aug 28, 2011
Lowest daily mean	34	Sep 26	61	Aug 3	7.5	Sep 26, 1964
Annual seven-day minimum	43	Sep 21	72	Jul 31	8.9	Sep 22, 1964
Maximum peak flow			27,800	Aug 28	29,000	Sep 16, 1999
Maximum peak stage			17.97	Aug 28	18.98	Sep 16, 1999
Instantaneous low flow			^a 44	Jan 8	^b 3.0	Nov 28, 1930
Annual runoff (cfsm)	2.01		2.69		1.67	
Annual runoff (inches)	27.26		36.58		22.68	
10 percent exceeds	771		1,080		630	
50 percent exceeds	209		258		189	
90 percent exceeds	82		84		59	

^a Result of freezing upstream.

^b Probably result of temporary regulation.



01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1923-25, 1960-76, 1978-80, 1997 to current year.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: September 2009.

DISSOLVED OXYGEN, PERCENT OF SATURATION: September 2009.

pH: September 2009.

SPECIFIC CONDUCTANCE: September 2009.

WATER TEMPERATURE: September 2009.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 8.

COOPERATION.--Samples were collected in cooperation with the NJ Water Supply Authority. Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determination of concentrations of ammonia in filtered water was performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory (DHSS-ECL) except during the period May 12 through August 25, 2011 when the determination was performed by the National Water-Quality Laboratory. Determination of concentrations of suspended solids in unfiltered water was performed by the DHSS-ECL except during the period June 17 through August 25, 2011 when samples could not be accepted.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-15-2010	0950	760	14.0	.081	.063	77	12.2	103	8.0
02-07-2011	1100	760	4.5	.123	.097	e390	15.6	107	7.5
06-15-2011	1000	756	23.5	.128	.099	334	10.0	105	8.0
09-20-2011	0945	764	17.0	.105	.081	327	8.6	86	7.8

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
11-15-2010	0950	379	8.0	1.6	212	E 195	116	2	29.0
02-07-2011	1100	847	.0	8.2	458	E 428	119	11	31.6
06-15-2011	1000	321	17.7	14	202	177	90.1	14	22.1
09-20-2011	0945	303	15.2	1.7	183	162	84.1	3	20.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 5

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Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)
11-15-2010	0950	10.6	2.43	24.2	74.8	.19	51.8	.08	< .03	6.54
02-07-2011	1100	9.70	2.31	109	46.2	.34	216	.06	< .03	9.64
06-15-2011	1000	8.50	1.82	24.6	60.7	.70	51.3	.10	.07	13.2
09-20-2011	0945	8.12	1.83	22.5	54.2	.15	45.3	.06	< .03	14.8

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)
11-15-2010	0950	21.7	.20	E .008	.86	.015	.038	.021	.027
02-07-2011	1100	16.6	.22	E .009	1.08	.020	.049	.027	.044
06-15-2011	1000	14.6	.21	.014	.94	.036	.063	.041	.083
09-20-2011	0945	12.7	.17	< .010	.96	.023	< .017	.024	.030

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Boron, water, filtered, µg/L (01020)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
11-15-2010	0950	1.1	1.1	54	.18	2.63
02-07-2011	1100	1.3	1.3	--	.33	3.33
06-15-2011	1000	1.1	1.2	--	.64	3.44
09-20-2011	0945	1.1	< 1.2	--	.15	2.99

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 6

[<, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Moisture content, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, percent (49282)	pH, bed sediment, standard units (70310)	Carbon (inorganic plus organic), bed sediment, total, dry weight, grams per kilogram (00693)		Inorganic carbon, bed sediment, total, dry weight, grams per kilogram (00686)	Phosphorus, bed sediment, total, dry weight, milligrams per kilogram as phosphorus (00668)	Cadmium, bed sediment, recoverable, dry weight, milligrams per kilogram (01028)	Chromium, bed sediment, recoverable, dry weight, milligrams per kilogram (01029)	Cobalt, bed sediment, recoverable, dry weight, milligrams per kilogram (01038)	Copper, bed sediment, recoverable, dry weight, milligrams per kilogram (01043)
09-20-2011	0930	20	6.67	3.6	< .2	E 1.4	.100	20	9.5	16	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 6

[<, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Iron, bed sediment, total digestion, dry weight, milligrams per kilogram (01170)	Lead, bed sediment, recoverable, dry weight, milligrams per kilogram (01052)	Manganese, bed sediment, recoverable, dry weight, milligrams per kilogram (01053)	Mercury, bed sediment, recoverable, dry weight, milligrams per kilogram (71921)	Nickel, bed sediment, recoverable, dry weight, milligrams per kilogram (01068)	Zinc, bed sediment, recoverable, dry weight, milligrams per kilogram (01093)	Arsenic, bed sediment, recoverable, dry weight, milligrams per kilogram (64847)	Selenium, bed sediment, recoverable, dry weight, milligrams per kilogram (64848)	p-Cresol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49451)
09-20-2011	0930	20,000	14	460	.013	16.7	56	3.4	.2	< 50

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 6

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Date	Sample start time	PCBs, bed sediment, recoverable, dry weight, micrograms per kilogram (39519)	1,2-Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49403)	1,6-Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49404)	1-Methyl-9H-fluorene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49398)	1-Methylphenanthrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49410)	1-Methylpyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49388)	2,3,6-Trimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49405)	2,6-Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49406)	2-Ethyl-naphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49948)
09-20-2011	0930	< 5.00	M	< 50	E 2	9	9	E 1	< 50	< 50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 6

[<, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	2-Methylanthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49435)	4H-Cyclopenta[def]phenanthrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49411)	9H-Fluorene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49399)	Acenaphthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49429)	Acenaphthylene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49428)	Anthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49434)	Benzo[a]anthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49436)	Benzo[a]pyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49389)	Benzo[b]fluoranthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49458)
09-20-2011	0930	7	14	4	3	5	16	81	91	130

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 6

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Date	Sample start time	Benzo[ghi]perylene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49408)	Benzo[k]fluoranthene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49397)	Chrysene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49450)	Dibenzo[a,h]anthracene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49461)	Fluoranthene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49466)	Indeno[1,2,3-cd]pyrene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49390)	Isophorone, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49400)	Naphthalene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49402)	Phenanthrene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49409)
		09-20-2011	0930	33	48	92	E 12	180	E 38	< 50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 6

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Date	Sample start time	Phenanthrene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49393)	Pyrene, bed sediment smaller than 2 millimeter s, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49387)	Bed sediment, wet sieved, sieve diameter, percent smaller than 0.0625 millimeters (69600)
		09-20-2011	0930	< 50