Water-Data Report 2011

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY

Upper Hudson Basin
Hudson-Wappinger Subbasin

LOCATION.--Lat 41°43′18″, long 73°56′28″ referenced to North American Datum of 1927, Dutchess County, NY, Hydrologic Unit 02020008, at city pumping station on left bank, adjacent (north) to Marist College,0.5 mi north of Poughkeepsie, and 1.3 mi upstream from Mid-Hudson bridge.

DRAINAGE AREA.--11,700 mi^2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-75, 1988-96, 1999-2000, 2010-11.
CHEMICAL DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973 (e), 1974-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c),1994 (d), 1995 (c), 1996 (a), 2010-11 (d).
MINOR ELEMENTS DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a).
RADIOCHEMICAL DATA: 1974 (a), 1975 (d).
PESTICIDE DATA: 1993-94, 1996 (a), 2010-11 (d).
ORGANIC DATA: OC--1974 (b), 1975 (d), 1993 (c), 1994 (d), 1995 (c), 1999-2000 (e), 2010-11 (d). PCB--1993 (a). PCN--1993 (a).
NUTRIENT DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1993 (c), 1994 (d), 1995 (c), 2010-11 (d).
BIOLOGICAL DATA: Bacteria--1973 (c), 1974-75 (d). Phytoplankton--1973 (a), 1974 (b), 1975 (d), 1993 (a). Periphyton--1974 (c), 1975 (a).
SEDIMENT DATA: 1973 (a), 1974 (b), 1975 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (c), 1999-2000 (e), 2010 (e), 2011 (d).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1959 to September 1966.

REMARKS.--Samples were collected by boat during the period of fastest ebb current of tidal cycle in a cross section in the vicinity of the city pumping station, unless otherwise noted. Daily water-temperature measurements were made at approximately 0830 during water years 1959-63 and at approximately 0700 during water years 1964-66.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1959-66): Maximum daily, 26.5°C, August 29, 1959; minimum daily, 0.0°C on many days during winter periods.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01372043, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01372043.2011.pdf

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 15

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Medium code	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)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)
10-13-2010	**0930**	WS	16.5	.224	.172	8.7	85	7.6	185
12-13-2010	**1200**	WS	6.0	.162	.126	12.7	95	7.5	196
01-11-2011	**1200**	WS	--	.107	.082	13.3	95	7.6	213
02-10-2011	**1130**	WS	-5.0	.105	.081	13.2	90	7.3	254
02-24-2011	**1115**	WS	2.0	.112	.088	13.6	92	7.5	311
03-10-2011	**0915**	WS	6.0	.139	.110	14.8	101	7.3	280
03-10-2011	**0925**	WSQ	--	--	--	--	--	--	--
03-24-2011	**0930**	WS	7.0	.112	.087	12.9	100	7.8	271
04-07-2011	**0815**	WS	9.0	.094	.072	12.4	98	7.6	275
04-21-2011	**0815**	WS	10.0	.146	.113	12.3	104	7.6	154
05-23-2011	**1100**	WS	16.0	.141	.108	9.5	94	7.6	197
06-07-2011	**0930**	WS	27.0	.128	.097	7.6	88	7.4	188
08-22-2011	**1230**	WS	26.0	.168	.127	7.3	88	7.4	235
08-22-2011	**1233**	WSQ	--	--	--	--	--	--	--
08-30-2011	**0620**	WS	16.0	.250	.196	8.2	91	7.6	184
08-31-2011	**0700**	WS	17.0	.269	.211	8.0	86	7.6	164

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 15

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Tempera-ture, 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)	Sampling method (82398)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
10-13-2010	**0930**	14.8	30	Single vertical	121	20.9	3.29	1.70
12-13-2010	**1200**	2.5	58	Grab sample(dip)	109	22.7	3.79	1.39
01-11-2011	**1200**	1.9	E 12	Grab smp tap wat sup	120	23.9	4.42	.99
02-10-2011	**1130**	.0	E 7.1	Weighted bottle	144	24.2	4.54	.97
02-24-2011	**1115**	.0	E 9.1	Weighted bottle	168	26.7	5.23	1.13
03-10-2011	**0915**	.4	57	Weighted bottle	151	23.7	4.26	1.45
03-10-2011	**0925**	--	--	Weighted bottle	--	--	--	--
03-24-2011	**0930**	4.4	45	Weighted bottle	136	26.1	4.43	1.23
04-07-2011	**0815**	5.3	E 11	Weighted bottle	142	26.2	4.80	1.00
04-21-2011	**0815**	8.2	34	Weighted bottle	94	16.2	2.82	.82
05-23-2011	**1100**	15.2	E 16	Weighted bottle	112	20.4	3.77	1.04
06-07-2011	**0930**	21.8	25	Single vertical	104	19.7	3.78	.94
08-22-2011	**1230**	24.5	E 8.3	Single vertical	134	22.5	4.46	1.35
08-22-2011	**1233**	--	--	Single vertical	--	--	--	--
08-30-2011	**0620**	20.7	220	Single vertical	119	17.4	3.04	1.58
08-31-2011	**0700**	19.8	370	Single vertical	99	17.4	2.75	1.91

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 15

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	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)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
10-13-2010	**0930**	10.1	48	1.12	15.1	.07	< .03	4.83	12.0	.31
12-13-2010	**1200**	10.1	41	1.17	16.0	.06	< .03	5.35	10.8	.19
01-11-2011	**1200**	13.8	50	.52	20.8	< .04	< .03	5.94	12.7	.24
02-10-2011	**1130**	18.6	57	.34	32.1	.06	< .03	5.47	14.5	.29
02-24-2011	**1115**	23.9	66	.28	40.9	.06	< .03	6.04	16.2	.44
03-10-2011	**0915**	23.8	46	1.37	39.8	.04	< .03	4.96	12.9	.27
03-10-2011	**0925**	--	--	--	--	--	--	--	--	--
03-24-2011	**0930**	16.2	62	1.24	27.3	< .04	< .03	4.85	10.8	.29
04-07-2011	**0815**	17.4	43	.42	28.6	.06	< .03	5.45	12.3	.24
04-21-2011	**0815**	10.4	36	.77	16.5	.07	< .03	4.47	8.35	.19
05-23-2011	**1100**	13.5	48	.38	20.6	< .04	< .03	4.61	9.91	.24
06-07-2011	**0930**	11.7	59	.84	18.5	< .04	< .03	3.98	9.01	.21
08-22-2011	**1230**	15.4	59	.81	23.9	.05	< .03	1.05	11.9	.26
08-22-2011	**1233**	--	--	--	--	--	--	--	--	--
08-30-2011	**0620**	9.77	57	3.57	15.5	< .04	< .03	4.52	9.49	.34
08-31-2011	**0700**	7.98	54	4.21	12.1	< .04	< .03	4.83	7.75	.40

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos-phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)
10-13-2010	**0930**	.46	.025	.35	.014	.024	.12	.032	.086
12-13-2010	**1200**	.46	.026	.36	.005	.018	.15	.022	.117
01-11-2011	**1200**	.34	.066	.50	.017	.018	.07	.022	.048
02-10-2011	**1130**	.40	.090	.56	.015	.021	.04	.026	.045
02-24-2011	**1115**	.33	.113	.64	.015	.027	.03	.029	.058
03-10-2011	**0915**	.50	.086	.56	.008	.020	.19	.026	.093
03-10-2011	**0925**	--	--	--	--	--	--	--	--
03-24-2011	**0930**	.42	.062	.57	.005	.016	.11	.019	.082
04-07-2011	**0815**	.35	.066	.53	.009	.013	.06	.016	.041
04-21-2011	**0815**	.34	.032	.34	.005	.013	.11	.018	.120
05-23-2011	**1100**	.34	.045	.33	.010	.018	.05	.024	.054
06-07-2011	**0930**	.39	.027	.34	.007	.016	.09	.027	.089
08-22-2011	**1230**	.43	.018	.23	.011	.023	.10	.030	.073
08-22-2011	**1233**	--	--	--	--	--	--	--	--
08-30-2011	**0620**	.84	.063	.31	.008	.026	.41	.031	.274
08-31-2011	**0700**	1.1	.107	.32	.009	.033	.59	.040	.388

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Iron, water, filtered, µg/L (01046)	Lithium, water, filtered, µg/L (01130)	Strontium, water, filtered, µg/L (01080)	Vanadium, water, filtered, µg/L (01085)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (49295)	2,6-Diethyl-aniline, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82660)
10-13-2010	0930	68	1.0	107	.40	.57	14	.10	< .036	< .006
12-13-2010	1200	77	.8	105	.27	.39	8	.08	< .036	< .006
01-11-2011	1200	68	1.0	106	.22	.28	10	.05	< .036	< .006
02-10-2011	1130	54	1.0	118	.19	.24	9	.07	< .036	< .006
02-24-2011	1115	64	1.1	140	.16	.27	10	.08	< .036	< .006
03-10-2011	0915	56	.9	109	.23	.31	9	.10	< .036	< .006
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	28	.8	120	.22	.33	8	.10	< .036	< .006
04-07-2011	0815	51	1.0	122	.19	.25	9	.09	< .036	< .006
04-21-2011	0815	66	.7	72.6	.24	.30	7	.06	< .036	< .006
05-23-2011	1100	68	.8	89.5	.35	.45	9	.07	< .036	< .006
06-07-2011	0930	34	.9	94.7	.37	.50	9	.07	< .036	< .006
08-22-2011	1230	24	1.4	106	.43	.90	14	.12	< .036	< .006
08-22-2011	1233	--	--	--	--	--	--	--	E .069	.089
08-30-2011	0620	124	1.0	103	.67	.97	12	.12	< .036	< .006
08-31-2011	0700	196	.9	93.2	.65	1.0	12	.15	< .036	< .006

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)	2-Ethyl-6-methylaniline, water, filtered, recoverable, µg/L (61620)	3,4-Dichloroaniline, water, filtered, recoverable, µg/L (61625)	3,5-Dichloroaniline, water, filtered, recoverable, µg/L (61627)	4-Chloro-2-methylphenol, water, filtered, recoverable, µg/L (61633)	Acetochlor, water, filtered, recoverable, µg/L (49260)	Alachlor, water, filtered, recoverable, µg/L (46342)	alpha-Endosulfan, water, filtered, recoverable, µg/L (34362)
10-13-2010	0930	< .010	E .009	< .010	< .004	< .004	< .005	< .010	< .008	< .006
12-13-2010	1200	< .010	E .012	< .010	< .004	< .004	< .005	< .010	< .008	< .006
01-11-2011	1200	< .010	E .008	< .010	< .004	< .004	< .005	< .010	< .008	< .006
02-10-2011	1130	< .010	E .008	< .010	< .004	< .004	< .005	< .010	< .008	< .006
02-24-2011	1115	< .010	E .008	< .010	E .004	< .004	< .005	< .010	< .008	< .006
03-10-2011	0915	< .010	E .009	< .010	< .004	< .004	< .005	< .010	.008	< .006
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .010	< .013	< .010	< .004	< .004	< .005	< .010	< .008	< .006
04-07-2011	0815	< .010	E .007	< .010	< .004	< .004	< .005	< .010	< .008	< .006
04-21-2011	0815	< .010	E .005	< .010	< .004	< .004	< .005	< .010	< .008	< .006
05-23-2011	1100	< .010	E .016	< .010	< .004	< .004	< .005	< .010	< .008	< .006
06-07-2011	0930	< .010	E .015	< .010	< .004	< .004	< .005	< .010	< .008	< .006
08-22-2011	1230	< .010	E .023	< .010	< .004	< .004	< .005	< .010	< .008	< .006
08-22-2011	1233	.119	E .112	E .087	E .079	.092	E .060	.123	.116	.105
08-30-2011	0620	< .010	E .023	< .010	< .004	< .004	< .005	< .010	< .008	< .006
08-31-2011	0700	< .010	E .021	< .010	< .004	< .004	< .005	< .010	.006	< .006

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)
10-13-2010	0930	.007	< .04	< .120	< .014	E .005	< .060	< .06	< .004
12-13-2010	1200	.016	< .04	< .120	< .014	< .060	< .060	< .06	< .004
01-11-2011	1200	.006	< .04	< .120	< .014	E .007	< .060	< .06	< .004
02-10-2011	1130	.006	< .04	< .120	< .014	< .060	< .060	< .06	< .004
02-24-2011	1115	.007	< .04	< .120	< .014	< .060	< .060	< .06	< .004
03-10-2011	0915	.009	< .04	< .120	< .014	< .060	< .060	< .06	< .004
03-10-2011	0925	--	--	--	--	--	--	--	--
03-24-2011	0930	< .008	< .04	< .120	< .014	< .060	< .060	< .06	< .004
04-07-2011	0815	< .008	< .04	< .120	< .014	< .060	< .060	< .06	< .004
04-21-2011	0815	.007	< .04	< .120	< .014	E .005	< .060	< .06	.005
05-23-2011	1100	.059	< .04	< .120	< .014	E .015	< .060	< .06	< .004
06-07-2011	0930	.024	< .04	< .120	< .014	< .060	< .060	< .06	< .007
08-22-2011	1230	.030	< .04	< .120	< .014	< .060	< .060	< .06	< .004
08-22-2011	1233	.132	E .14	E .145	.091	E .096	E .114	E .08	.094
08-30-2011	0620	.016	< .04	< .120	< .014	E .010	< .060	< .06	< .004
08-31-2011	0700	.016	< .04	< .120	< .014	E .006	< .060	< .06	< .004

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)	Cyanazine, water, filtered, recoverable, µg/L (04041)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinylfipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinylfipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)
10-13-2010	0930	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
12-13-2010	1200	< .010	E .006	< .022	< .016	< .020	< .008	< .029	< .012	< .006
01-11-2011	1200	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
02-10-2011	1130	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
02-24-2011	1115	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
03-10-2011	0915	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
04-07-2011	0815	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
04-21-2011	0815	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
05-23-2011	1100	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
06-07-2011	0930	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
08-22-2011	1230	< .010	< .008	< .022	< .016	< .020	< .008	< .029	.006	< .006
08-22-2011	1233	.066	E .040	.114	E .079	E .071	.105	E .142	.113	.105
08-30-2011	0620	< .010	E .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006
08-31-2011	0700	< .010	< .008	< .022	< .016	< .020	< .008	< .029	< .012	< .006

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WATER-QUALITY DATA
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Dichlor-vos, water, filtered, recover-able, µg/L (38775)	Dicroto-phos, water, filtered, recover-able, µg/L (38454)	Dieldrin, water, filtered, recover-able, µg/L (39381)	Dimetho-ate, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82662)	Disulfoton sulfone, water, filtered, recover-able, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82677)	Endosulfan sulfate, water, filtered, recover-able, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82668)	Ethion monoxon, water, filtered, recover-able, µg/L (61644)
10-13-2010	0930	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
12-13-2010	1200	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
01-11-2011	1200	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
02-10-2011	1130	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
02-24-2011	1115	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
03-10-2011	0915	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
04-07-2011	0815	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
04-21-2011	0815	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
05-23-2011	1100	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
06-07-2011	0930	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
08-22-2011	1230	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
08-22-2011	1233	E .04	E .02	.112	E .068	.10	E .09	.118	.097	E .11
08-30-2011	0620	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02
08-31-2011	0700	< .04	< .08	< .008	< .006	< .01	< .04	< .016	< .006	< .02

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WATER-QUALITY DATA
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Ethion, water, filtered, recoverable, µg/L (82346)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672)	Fenamiphos sulfone, water, filtered, recoverable, µg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenamiphos, water, filtered, recoverable, µg/L (61591)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)
10-13-2010	0930	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
12-13-2010	1200	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
01-11-2011	1200	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
02-10-2011	1130	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
02-24-2011	1115	< .008	< .016	< .054	< .08	< .03	< .012	< .024	E .006	< .005
03-10-2011	0915	< .008	< .016	< .054	< .08	< .03	< .012	< .024	E .005	< .005
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
04-07-2011	0815	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
04-21-2011	0815	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
05-23-2011	1100	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
06-07-2011	0930	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
08-22-2011	1230	< .008	< .016	< .054	< .08	< .03	.006	< .024	E .006	< .005
08-22-2011	1233	.111	.116	.147	< .08	E .12	.134	.136	E .132	.098
08-30-2011	0620	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005
08-31-2011	0700	< .008	< .016	< .054	< .08	< .03	< .012	< .024	< .018	< .005

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WATER-QUALITY DATA
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Hexazinone, water, filtered, recoverable, µg/L (04025)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofenphos, water, filtered, recoverable, µg/L (61594)	lambda-Cyhalothrin, water, filtered, recoverable, µg/L (61595)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)
10-13-2010	0930	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
12-13-2010	1200	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
01-11-2011	1200	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
02-10-2011	1130	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
02-24-2011	1115	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .03
03-10-2011	0915	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .02
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
04-07-2011	0815	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
04-21-2011	0815	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
05-23-2011	1100	.009	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
06-07-2011	0930	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
08-22-2011	1230	< .008	< .014	< .006	< .010	< .022	< .016	.006	< .012	< .01
08-22-2011	1233	.082	E .055	.118	E .052	.102	.102	.112	.112	E .09
08-30-2011	0620	< .008	< .014	< .006	< .010	< .022	< .016	< .014	< .012	< .01
08-31-2011	0700	< .008	< .014	< .006	< .010	< .022	< .016	.006	< .012	< .01

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)	Metribuzin, water, filtered, recoverable, µg/L (82630)	Molinate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671)	Myclobutanil, water, filtered, recoverable, µg/L (61599)	Oxyfluorfen, water, filtered, recoverable, µg/L (61600)	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82664)
10-13-2010	0930	< .008	.010	< .012	< .004	< .010	< .006	< .012	< .03	< .020
12-13-2010	1200	< .008	E .020	< .012	< .004	< .010	< .006	< .012	< .03	< .020
01-11-2011	1200	< .008	< .020	< .012	< .004	< .010	< .006	< .012	< .03	< .020
02-10-2011	1130	< .008	.008	< .012	< .004	< .010	< .006	< .012	< .03	< .020
02-24-2011	1115	< .008	.010	< .012	< .004	< .010	< .006	< .012	< .03	< .020
03-10-2011	0915	< .008	.015	< .012	< .004	< .010	< .006	< .012	< .03	< .020
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .008	.012	< .012	< .004	< .010	< .006	< .012	< .03	< .020
04-07-2011	0815	< .008	.008	< .012	< .004	< .010	< .006	< .012	< .03	< .020
04-21-2011	0815	< .008	.012	< .012	< .004	< .010	< .006	< .012	< .03	< .020
05-23-2011	1100	< .008	.057	< .012	< .004	< .010	< .006	< .012	< .03	< .020
06-07-2011	0930	< .008	.023	< .012	< .004	< .010	< .006	< .012	< .03	< .020
08-22-2011	1230	< .008	.035	< .012	< .004	< .010	< .006	< .012	< .03	< .020
08-22-2011	1233	.103	.147	.099	.100	.106	.085	.107	E .11	.103
08-30-2011	0620	< .008	.029	< .012	< .004	< .010	< .006	< .012	< .03	< .020
08-31-2011	0700	< .008	.038	< .012	< .004	< .010	< .006	< .012	< .03	< .020

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WATER-QUALITY DATA
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)	Prometon, water, filtered, recoverable, µg/L (04037)	Prometryn, water, filtered, recoverable, µg/L (04036)	Propanil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)
10-13-2010	0930	< .05	< .140	.004	< .006	< .010	< .02	< .004	.004	< .03
12-13-2010	1200	< .05	< .140	< .012	< .006	< .010	< .02	< .004	< .006	< .03
01-11-2011	1200	< .05	< .140	< .012	< .006	< .010	< .02	< .004	< .006	< .03
02-10-2011	1130	< .05	< .140	< .012	< .006	< .010	< .02	< .004	< .007	< .03
02-24-2011	1115	< .05	< .140	< .012	< .006	< .010	< .02	< .004	< .006	< .03
03-10-2011	0915	< .05	< .014	.008	< .006	< .010	< .02	< .004	.009	< .03
03-10-2011	0925	--	--	--	--	--	--	--	--	--
03-24-2011	0930	< .05	< .014	< .012	< .006	< .010	< .02	< .004	< .006	< .03
04-07-2011	0815	< .05	< .140	< .012	< .006	< .010	< .02	< .004	< .006	< .03
04-21-2011	0815	< .05	< .140	.006	< .006	< .010	< .02	< .004	< .006	M
05-23-2011	1100	< .05	< .140	.009	< .006	< .010	< .02	< .004	.010	E .07
06-07-2011	0930	< .05	< .140	< .012	< .006	< .010	< .02	< .004	.007	< .03
08-22-2011	1230	< .05	< .140	< .012	< .006	< .010	< .02	< .006	.006	< .03
08-22-2011	1233	E .03	E .023	.101	.110	.112	.13	.098	.106	E .14
08-30-2011	0620	< .05	< .140	< .012	< .006	< .010	< .02	< .004	.007	E .02
08-31-2011	0700	< .05	< .140	< .012	< .006	< .010	< .02	< .004	.005	< .03

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Thiobencarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Organic carbon, suspended sediment, total, mg/L (00689)
10-13-2010	**0930**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	1.12
12-13-2010	**1200**	< .010	< .04	< .02	< .01	< .016	E .01	< .018	< .018	1.17
01-11-2011	**1200**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.51
02-10-2011	**1130**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.33
02-24-2011	**1115**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.28
03-10-2011	**0915**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	1.37
03-10-2011	**0925**	--	--	--	--	--	--	--	--	--
03-24-2011	**0930**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	1.22
04-07-2011	**0815**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.40
04-21-2011	**0815**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.77
05-23-2011	**1100**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.37
06-07-2011	**0930**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	.84
08-22-2011	**1230**	< .010	< .04	< .02	< .01	< .016	E .01	< .018	< .018	.80
08-22-2011	**1233**	E .068	.10	.09	.11	.097	E .08	E .092	.101	--
08-30-2011	**0620**	< .010	< .04	< .02	< .01	< .016	E .01	< .018	< .018	3.57
08-31-2011	**0700**	< .010	< .04	< .02	< .01	< .016	< .01	< .018	< .018	4.20

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Organic carbon, water, filtered, mg/L (00681)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)
10-13-2010	**0930**	5.7	96	37
12-13-2010	**1200**	4.0	98	61
01-11-2011	**1200**	3.2	95	17
02-10-2011	**1130**	3.1	85	12
02-24-2011	**1115**	3.1	94	19
03-10-2011	**0915**	3.2	98	63
03-10-2011	**0925**	--	98	54
03-24-2011	**0930**	2.9	99	57
04-07-2011	**0815**	2.9	98	19
04-21-2011	**0815**	3.6	95	46
05-23-2011	**1100**	3.8	96	23
06-07-2011	**0930**	3.9	99	45
08-22-2011	**1230**	5.6	98	7
08-22-2011	**1233**	--	--	--
08-30-2011	**0620**	5.5	99	248
08-31-2011	**0700**	6.0	100	344