

Water-Data Report 2011

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY

Lower Hudson Basin
Sandy Hook-Staten Island Subbasin

LOCATION.--Lat 40°34'25.4", long 74°08'28.7" referenced to North American Datum of 1983, Richmond County, NY, Hydrologic Unit 02030104, on right bank at southeast corner of Lighthouse Avenue and St. Andrews Road, in Richmond.

DRAINAGE AREA.--1.62 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2010 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above NGVD of 1929.

REMARKS.--Records poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 124 ft³/s, Aug. 28, 2011, gage height, 4.93 ft, from rating curve extended above 19 ft³/s; no flow at times each year 2010-11.

EXTREMES FOR CURRENT PERIOD.--February to September 2010: Maximum discharge during period, 81 ft³/s, Mar. 30, gage height, 3.55 ft, from rating curve extended above 19 ft³/s; no flow part or all of many days during July to September.

Water Year 2011: Maximum discharge, 124 ft³/s, Aug. 28, gage height, 4.93 ft, from rating curve extended above 19 ft³/s; no flow part or all of many days throughout the water year.

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

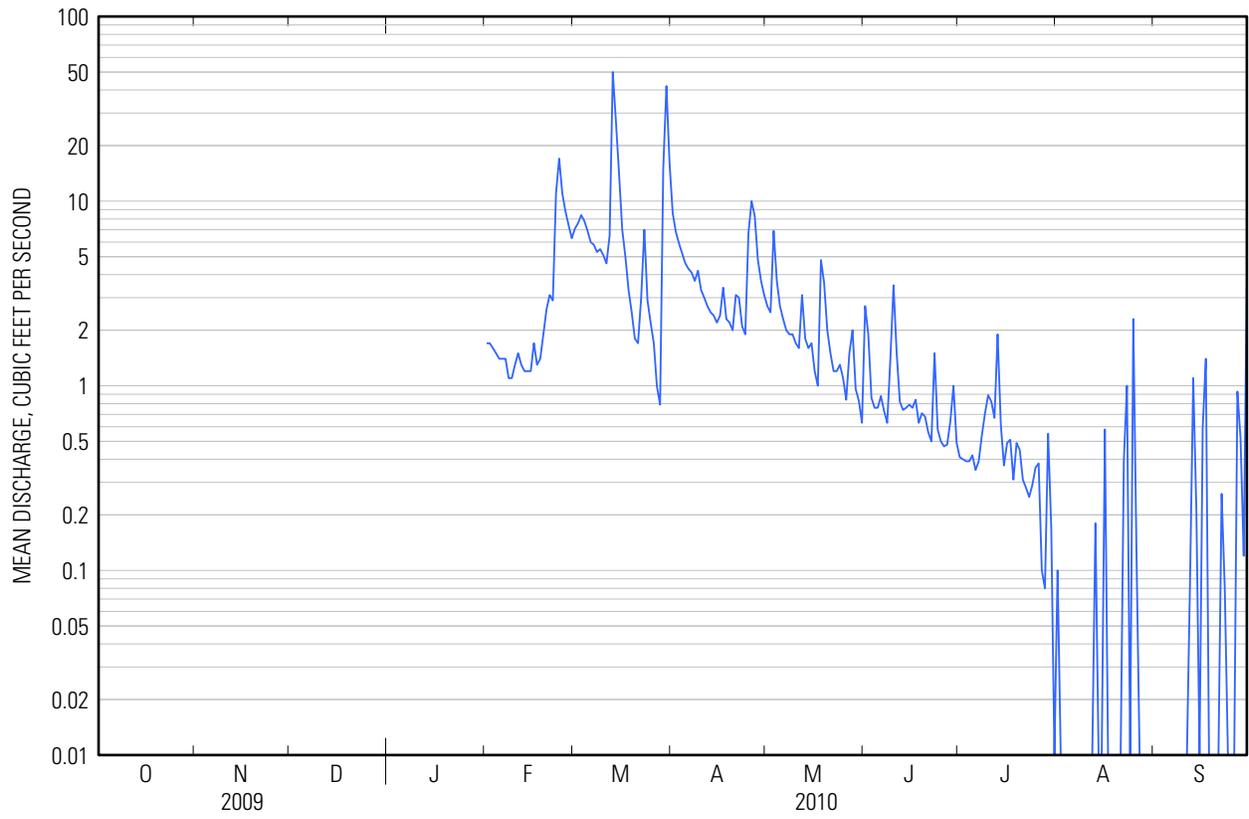
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	e1.7	7.1	8.6	2.7	2.7	e0.41	0.10	0.00
2	---	---	---	---	e1.7	7.6	6.8	2.5	1.9	e0.40	0.00	0.00
3	---	---	---	---	e1.6	8.4	5.9	6.9	0.86	e0.39	0.00	0.00
4	---	---	---	---	e1.5	e7.8	5.2	3.7	0.76	e0.39	0.00	0.00
5	---	---	---	---	e1.4	e6.9	4.6	2.7	0.76	e0.42	0.00	0.00
6	---	---	---	---	e1.4	e6.0	4.3	2.3	0.88	0.35	0.00	0.00
7	---	---	---	---	1.4	e5.8	4.1	2.0	0.73	0.39	0.00	0.00
8	---	---	---	---	1.1	e5.3	3.7	1.9	0.63	0.54	0.00	0.00
9	---	---	---	---	e1.1	e5.5	4.2	1.9	1.4	0.71	0.00	0.00
10	---	---	---	---	e1.3	5.1	3.3	1.7	3.5	0.89	0.00	0.00
11	---	---	---	---	e1.5	4.6	3.0	1.6	1.5	0.82	0.00	0.00
12	---	---	---	---	e1.3	6.5	2.7	3.1	0.82	0.67	0.00	0.09
13	---	---	---	---	e1.2	e50	2.5	1.8	0.74	1.9	0.18	1.1
14	---	---	---	---	e1.2	e27	2.4	1.6	0.76	0.62	0.00	0.21
15	---	---	---	---	e1.2	14	2.2	1.7	0.79	0.37	0.00	0.00
16	---	---	---	---	1.7	7.0	2.4	1.2	e0.76	0.49	0.58	0.59
17	---	---	---	---	1.3	e5.0	3.4	1.0	0.84	0.51	0.01	1.4
18	---	---	---	---	1.4	e3.3	2.3	4.8	0.63	0.31	0.00	0.00
19	---	---	---	---	1.9	e2.5	2.2	3.6	e0.71	0.49	0.00	0.00
20	---	---	---	---	2.6	e1.8	2.0	2.0	e0.68	0.45	0.00	0.00
21	---	---	---	---	3.1	1.7	3.1	1.5	e0.56	0.31	0.00	0.00
22	---	---	---	---	2.9	3.0	3.0	1.2	e0.50	0.28	0.39	0.26
23	---	---	---	---	11	7.0	2.1	1.2	e1.5	0.25	1.0	0.08
24	---	---	---	---	17	2.9	1.9	1.3	e0.58	0.29	0.00	0.00
25	---	---	---	---	11	2.2	6.7	1.1	e0.50	0.36	2.3	0.00
26	---	---	---	---	8.8	1.7	10	0.84	e0.47	0.38	0.13	0.00
27	---	---	---	---	7.4	0.99	8.3	1.5	e0.48	0.10	0.00	0.93
28	---	---	---	---	6.3	0.79	4.8	2.0	e0.64	0.08	0.00	0.52
29	---	---	---	---	---	15	3.7	0.96	e1.0	0.55	0.00	0.12
30	---	---	---	---	---	e42	3.1	0.83	e0.49	0.17	0.00	3.8
31	---	---	---	---	---	16	---	0.63	---	0.00	0.00	---
Total	---	---	---	---	97.0	280.48	122.5	63.76	29.07	14.29	4.69	9.10
Mean	---	---	---	---	3.46	9.05	4.08	2.06	0.97	0.46	0.15	0.30
Max	---	---	---	---	17	50	10	6.9	3.5	1.9	2.3	3.8
Min	---	---	---	---	1.1	0.79	1.9	0.63	0.47	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	3.46	9.05	4.08	2.06	0.97	0.46	0.15	0.30
Max	---	---	---	---	3.46	9.05	4.08	2.06	0.97	0.46	0.15	0.30
(WY)	(---)	(---)	(---)	(---)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)
Min	---	---	---	---	3.46	9.05	4.08	2.06	0.97	0.46	0.15	0.30
(WY)	(---)	(---)	(---)	(---)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued



01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—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	8.5	1.7	5.6	0.13	0.63	4.4	3.7	3.5	1.8	0.48	0.55	2.1
2	1.3	1.5	1.7	0.81	4.1	3.3	3.1	3.2	1.6	0.40	0.10	1.4
3	0.31	1.6	0.33	1.8	3.7	2.6	2.4	3.1	1.6	0.91	0.96	0.97
4	0.57	3.8	0.00	0.78	2.8	2.2	2.5	5.7	1.7	0.50	1.5	0.63
5	0.94	2.2	0.01	0.41	2.7	2.2	2.7	4.2	1.7	0.33	0.29	0.50
6	0.43	1.1	0.00	0.17	4.2	e9.5	2.3	3.3	1.7	0.39	0.27	7.5
7	0.28	0.83	0.00	0.00	3.4	16	2.2	2.8	1.4	0.63	0.51	11
8	0.27	1.5	0.00	0.00	5.1	6.1	2.1	2.6	1.2	1.0	0.24	e22
9	0.31	1.9	0.00	0.00	3.9	4.5	2.4	2.3	1.2	0.49	3.3	6.6
10	0.28	2.0	0.00	0.00	2.5	5.2	2.3	2.1	1.4	0.31	0.98	3.8
11	0.55	2.2	0.00	0.00	2.3	e20	2.1	1.9	3.2	0.39	0.45	2.8
12	0.68	2.0	2.9	0.10	1.8	7.3	3.2	1.8	1.7	0.33	0.31	2.2
13	0.04	2.1	3.3	0.08	1.6	5.1	9.9	1.7	1.3	0.31	0.31	1.6
14	0.51	2.0	1.2	0.29	3.1	4.1	4.7	1.6	1.3	0.31	e51	1.1
15	2.3	1.7	0.41	0.35	4.0	3.6	3.4	5.1	1.1	0.39	11	0.95
16	1.2	1.9	0.05	0.00	2.7	7.7	e8.4	3.3	0.92	0.28	6.5	0.79
17	0.94	3.4	0.00	0.00	4.0	4.8	e21	6.0	3.5	0.19	3.0	0.52
18	0.94	1.6	0.00	4.3	7.9	3.9	8.2	e22	1.5	0.23	2.0	0.35
19	1.5	1.4	0.00	5.2	7.5	3.3	6.2	13	0.92	0.22	1.8	0.22
20	1.6	1.7	0.00	3.0	4.2	2.9	5.4	8.1	0.83	0.27	1.4	0.30
21	1.9	1.6	0.00	2.1	3.6	4.6	4.6	6.3	0.85	0.19	1.9	0.31
22	1.9	1.7	0.00	1.3	2.7	3.7	3.9	5.3	0.94	0.07	1.9	0.31
23	1.9	1.8	0.00	1.2	2.2	6.1	10	4.9	1.0	0.33	0.47	e15
24	2.1	2.2	0.00	1.6	2.0	7.1	8.7	4.2	1.1	0.19	0.16	7.9
25	2.1	2.3	0.00	1.2	11	4.9	9.1	3.4	0.97	0.61	0.35	3.0
26	2.2	2.5	0.02	1.1	6.6	3.9	6.0	3.0	0.77	0.17	0.19	2.0
27	2.2	2.5	0.13	1.4	4.4	3.5	5.2	2.7	0.62	0.00	e7.9	1.6
28	1.4	2.2	0.71	1.5	6.1	3.2	5.9	2.4	0.62	0.00	e73	1.6
29	1.7	1.9	0.63	1.0	---	2.9	4.9	2.2	0.58	2.0	12	2.2
30	1.7	2.0	0.51	0.86	---	2.5	4.0	3.0	0.57	0.38	5.6	2.1
31	1.8	---	0.30	0.63	---	2.5	---	2.1	---	0.00	3.2	---
Total	44.35	58.83	17.80	31.31	110.73	163.6	160.5	136.8	39.59	12.30	193.14	103.35
Mean	1.43	1.96	0.57	1.01	3.95	5.28	5.35	4.41	1.32	0.40	6.23	3.44
Max	8.5	3.8	5.6	5.2	11	20	21	22	3.5	2.0	73	22
Min	0.04	0.83	0.00	0.00	0.63	2.2	2.1	1.6	0.57	0.00	0.10	0.22

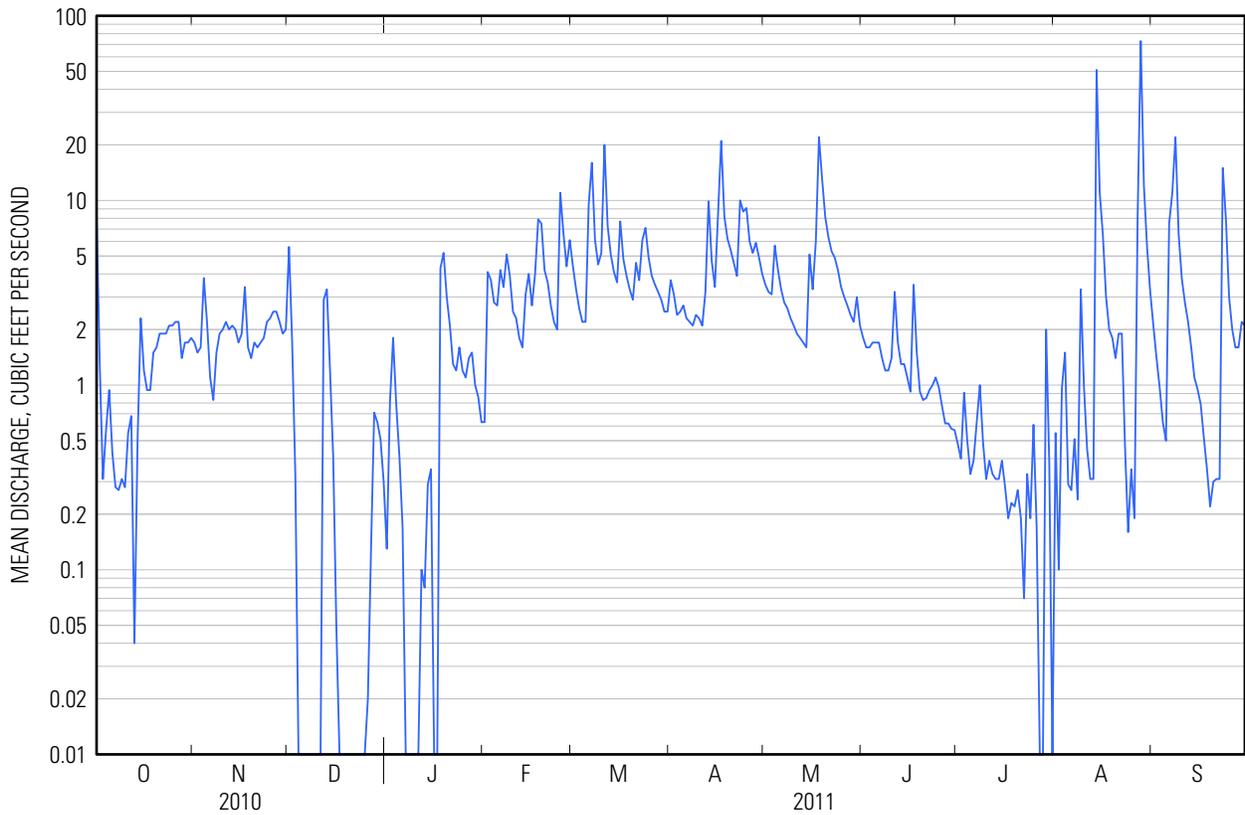
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.43	1.96	0.57	1.01	3.71	7.16	4.72	3.23	1.14	0.43	3.19	1.87
Max	1.43	1.96	0.57	1.01	3.95	9.05	5.35	4.41	1.32	0.46	6.23	3.44
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2010)	(2011)	(2011)	(2011)	(2010)	(2011)	(2011)
Min	1.43	1.96	0.57	1.01	3.46	5.28	4.08	2.06	0.97	0.40	0.15	0.30
(WY)	(2011)	(2011)	(2011)	(2011)	(2010)	(2011)	(2010)	(2010)	(2010)	(2011)	(2010)	(2010)

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

SUMMARY STATISTICS

	Water Year 2011		Water Years 2010 - 2011	
Annual total	1,072.30			
Annual mean	2.94		2.94	
Highest annual mean			2.94	2011
Lowest annual mean			2.94	2011
Highest daily mean	73	Aug 28	73	Aug 28, 2011
Lowest daily mean	0.00	Dec 4	0.00	Jul 31, 2010
Annual seven-day minimum	0.00	Dec 17	0.00	Aug 2, 2010
10 percent exceeds	6.1		6.1	
50 percent exceeds	1.8		1.8	
90 percent exceeds	0.15		0.15	



01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Barometric pressure, mm Hg (00025)	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)	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)
10-12-2010	1400	756	6.3	65	7.0	489	16.8	4.5	305

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Potassium, water, unfiltered, recoverable, mg/L (00937)	Sodium, water, unfiltered, recoverable, mg/L (00929)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)
10-12-2010	1400	19.8	18.2	3.40	38.5	101	76.3	0.14	13.4	22.2

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	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)	Orthophosphate, water, filtered, mg/L as P (00671)	Dead fish, severity (01340)	Barium, water, unfiltered, recoverable, µg/L (01007)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recoverable, µg/L (01034)
10-12-2010	1400	0.05	0.59	0.029	0.052	None	64.0	0.078	1.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, filtered, µg/L (01046)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, filtered, µg/L (01056)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, unfiltered, recoverable, µg/L (71900)	Silver, water, unfiltered, recoverable, µg/L (01077)	Zinc, water, unfiltered, recoverable, µg/L (01092)
10-12-2010	1400	9.7	350	668	2.14	146	146	<0.005	0.060	10.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, unfiltered, µg/L (01147)	1,2,3-Trichloropropane, water, unfiltered, recoverable, µg/L (77443)	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, µg/L (82625)	1,2-Dibromoethane, water, unfiltered, recoverable, µg/L (77651)	1,2-Dichloroethane, water, unfiltered, recoverable, µg/L (32103)	1,2-Dichloropropane, water, unfiltered, recoverable, µg/L (34541)	1,3-Dichloropropane, water, unfiltered, recoverable, µg/L (77173)	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)
10-12-2010	1400	2.4	0.286	<0.120	<0.400	<0.028	<0.08	<0.0260	<0.06	<0.026

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	1-Naphthol,	2,4,6-	2,4-	2,4-	2,6-Diethyl-	2-Chloro-	2-Chloro-4-	2-Ethyl-6-	2-Methyl-
		water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	Trichloro-phenol, water, unfiltered, recoverable, µg/L (34621)	Dichloro-phenol, water, unfiltered, recoverable, µg/L (34601)	Dimethyl-phenol, water, unfiltered, recoverable, µg/L (34606)	aniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	isopropyl-amino-6-triazine, water, filtered, recoverable, µg/L (04040)	methyl-aniline, water, filtered, recoverable, µg/L (61620)	4,6-dinitro-phenol, water, unfiltered, recoverable, µg/L (34657)
10-12-2010	1400	E0.0103	<0.34	<0.36	<0.8	<0.0060	<0.010	<0.006	<0.010	M

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 7 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	3,4-	3-Chloro-	4-Chloro-2-	4-Chloro-3-	4-Nitro-	Aceto-	Acrylo-	Alachlor,	Aldrin,
		Dichloro-aniline, water, filtered, recoverable, µg/L (61625)	propene, water, unfiltered, recoverable, µg/L (78109)	methyl-phenol, water, filtered, recoverable, µg/L (61633)	methyl-phenol, water, filtered, recoverable, µg/L (34452)	phenol, water, unfiltered, recoverable, µg/L (34646)	chlor, water, filtered, recoverable, µg/L (49260)	nitrile, water, unfiltered, recoverable, µg/L (34215)	water, filtered, recoverable, µg/L (46342)	water, unfiltered, recoverable, µg/L (39330)
10-12-2010	1400	<0.0076	<0.08	<0.0046	<0.54	0.34	<0.010	<0.80	<0.009	<0.013

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 8 of 29

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	alpha-Endo-sulfan, water, unfiltered, recoverable,	Atrazine, water, filtered, recoverable,	Azinphos-methyl oxygen analog, water, filtered, recoverable,	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable,	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable,	Bromo-methane, water, unfiltered, recoverable,	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable,	Carbon disulfide, water, unfiltered,	Chlordane (technical), water, unfiltered, recoverable,
		µg/L (39388)	µg/L (39632)	µg/L (61635)	µg/L (82686)	µg/L (82673)	µg/L (34413)	µg/L (82680)	µg/L (77041)	µg/L (39350)
10-12-2010	1400	<0.012	<0.011	<0.042	<0.120	<0.014	<0.2	E0.025	<0.1	<0.1

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Chlorpyrifos oxygen analog, water, filtered, recoverable,	Chlorpyrifos, water, filtered, recoverable,	cis-1,3-Dichloropropene, water, unfiltered, recoverable,	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable,	Cyfluthrin, water, filtered, recoverable,	Cypermethrin, water, filtered, recoverable,	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable,	Desulfinyl-fipronil amide, water, filtered, recoverable,	Desulfinyl-fipronil, water, filtered, recoverable,
		µg/L (61636)	µg/L (38933)	µg/L (34704)	µg/L (82687)	µg/L (61585)	µg/L (61586)	µg/L (82682)	µg/L (62169)	µg/L (62170)
10-12-2010	1400	<0.06	<0.0036	<0.10	<0.010	<0.016	<0.020	<0.0076	<0.029	<0.012

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Diazinon, water, filtered, recoverable, µg/L (39572)	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)	Dieldrin, water, filtered, recoverable, µg/L (39381)	Dieldrin, water, unfiltered, recoverable, µg/L (39380)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Endrin, water, unfiltered, recoverable, µg/L (39390)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)
10-12-2010	1400	<0.0060	<0.04	<0.08	<0.008	<0.008	<0.0060	<0.012	<0.021	<0.008

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	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)	Heptachlor epoxide, water, unfiltered, recoverable, µg/L (39420)	Heptachlor, water, unfiltered, recoverable, µg/L (39410)
10-12-2010	1400	<0.054	<0.08	<0.030	<0.012	<0.024	E0.012	<0.0048	<0.009	<0.008

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Hexachlorobenzene, water, unfiltered, recoverable, µg/L (39700)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Iodomethane, water, unfiltered, recoverable, µg/L (77424)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofenphos, water, filtered, recoverable, µg/L (61594)	Lindane, water, unfiltered, recoverable, µg/L (39340)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)	Metalaxyl, water, filtered, recoverable, µg/L (61596)
10-12-2010	1400	<0.30	<0.008	<0.26	<0.031	<0.006	<0.014	<0.022	<0.016	<0.014

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Methidathion, water, filtered, recoverable,	Methyl paraoxon, water, filtered, recoverable,	Methyl parathion, water, filtered, recoverable,	Metolachlor, water, filtered, recoverable,	Metribuzin, water, filtered, recoverable,	Mirex, water, unfiltered, recoverable,	Myclobutanil, water, filtered, recoverable,	p,p'-DDD, water, unfiltered, recoverable,	p,p'-DDE, water, unfiltered, recoverable,
		(61598) µg/L	(61664) µg/L	(0.7 micron glass fiber filter), recoverable, (82667) µg/L	(39415) µg/L	(82630) µg/L	(39755) µg/L	(61599) µg/L	(39360) µg/L	(39365) µg/L
10-12-2010	1400	<0.012	<0.014	<0.008	<0.020	<0.012	<0.0060	<0.010	<0.016	<0.014

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	p,p'-DDT, water, unfiltered, recoverable,	p,p'-Methoxychlor, water, unfiltered, recoverable,	Pendimethalin, water, filtered, recoverable,	Pentachlorophenol, water, unfiltered, recoverable,	Phorate oxygen analog, water, filtered, recoverable,	Phorate, water, filtered, recoverable,	Phosmet oxygen analog, water, filtered, recoverable,	Phosmet, water, filtered, recoverable,	Prometon, water, filtered, recoverable,
		(39370) µg/L	(39480) µg/L	(0.7 micron glass fiber filter), recoverable, (82683) µg/L	(39032) µg/L	(61666) µg/L	(82664) µg/L	(61668) µg/L	(61601) µg/L	(04037) µg/L
10-12-2010	1400	<0.010	<0.002	<0.012	E0.1	<0.027	<0.020	<0.0511	<0.140	<0.012

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Prometryn, water, filtered, recoverable, µg/L (04036)	Propyz-amide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebu-thiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Terbufos analog sulfone, water, filtered, recoverable, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthyl-azine, water, filtered, recoverable, µg/L (04022)	Toxa-phene, water, unfiltered, recoverable, µg/L (39400)	trans-1,3-Dichloro-propene, water, unfiltered, recoverable, µg/L (34699)
10-12-2010	1400	<0.006	<0.0036	<0.015	<0.028	<0.045	<0.018	<0.006	<1	<0.14

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	PCBs, water, unfiltered, recoverable, µg/L (39516)	1,1,1,2-Tetra-chloro-ethane, water, unfiltered, recoverable, µg/L (77562)	1,1,1-Tri-chloro-ethane, water, unfiltered, recoverable, µg/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfiltered, recoverable, µg/L (34516)	1,1,2-Tri-chloro-2,2-trifluoro-ethane, water, unfiltered, recoverable, µg/L (77652)	1,1,2-Tri-chloro-ethane, water, unfiltered, recoverable, µg/L (34511)	1,1-Di-chloro-ethane, water, unfiltered, recoverable, µg/L (34496)
10-12-2010	1400	<0.018	<0.018	<0.1	<0.040	<0.030	<0.14	<0.034	<0.028	<0.044

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	1,1-Di-chloro-ethene, water, unfiltered, recoverable, µg/L (34501)	1,1-Di-chloro-propene, water, unfiltered, recoverable, µg/L (77168)	1,2,3,4-Tetra-methyl-benzene, water, unfiltered, recoverable, µg/L (49999)	1,2,3,5-Tetra-methyl-benzene, water, unfiltered, recoverable, µg/L (50000)	1,2,3-Tri-chloro-benzene, water, unfiltered, recoverable, µg/L (77613)	1,2,3-Tri-methyl-benzene, water, unfiltered, recoverable, µg/L (77221)	1,2,4-Tri-chloro-benzene, water, unfiltered, recoverable, µg/L (34551)	1,2,4-Tri-methyl-benzene, water, unfiltered, recoverable, µg/L (77222)	1,2-Dichloro-benzene, water, unfiltered, recoverable, µg/L (34536)
10-12-2010	1400	<0.022	<0.040	<0.10	<0.080	<0.06	<0.060	<0.08	<0.032	<0.028

WATER-QUALITY DATA

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	1,2-Diphenyl-hydrazine, water, unfiltered, recoverable, µg/L (82626)	1,3,5-Tri-methyl-benzene, water, unfiltered, recoverable, µg/L (77226)	1,3-Dichloro-benzene, water, unfiltered, recoverable, µg/L (34566)	2,2-Di-chloro-propane, water, unfiltered, recoverable, µg/L (77170)	2,4-Dinitro-phenol, water, unfiltered, recoverable, µg/L (34616)	2,4-Dinitro-toluene, water, unfiltered, recoverable, µg/L (34611)	2,6-Dinitro-toluene, water, unfiltered, recoverable, µg/L (34626)	2-Chloro-naphthalene, water, unfiltered, recoverable, µg/L (34581)	2-Chloro-phenol, water, unfiltered, recoverable, µg/L (34586)
10-12-2010	1400	<0.30	<0.032	<0.024	<0.06	M	<0.56	<0.4	<0.16	<0.26

WATER-QUALITY DATA

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	2-Chloro-toluene, water, unfiltered, recoverable, µg/L (77275)	2-Ethyl-toluene, water, unfiltered, recoverable, µg/L (77220)	2-Nitro-phenol, water, unfiltered, recoverable, µg/L (34591)	3,3'-Dichloro-benzidine, water, unfiltered, recoverable, µg/L (34631)	4-Bromo-phenyl phenyl ether, water, unfiltered, recoverable, µg/L (34636)	4-Chloro-phenyl ether, water, unfiltered, recoverable, µg/L (34641)	4-Chloro-toluene, water, unfiltered, recoverable, µg/L (77277)	4-Iso-propyl-toluene, water, unfiltered, recoverable, µg/L (77356)	9H-Fluorene, water, unfiltered, recoverable, µg/L (34381)
10-12-2010	1400	<0.028	<0.032	<0.4	<0.42	<0.24	<0.34	<0.042	<0.06	<0.34

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Acenaphthene, water, unfiltered, recoverable, µg/L (34205)	Acenaphthylene, water, unfiltered, recoverable, µg/L (34200)	Acetone, water, unfiltered, recoverable, µg/L (81552)	Anthracene, water, unfiltered, recoverable, µg/L (34220)	Benzene, water, unfiltered, recoverable, µg/L (34030)	Benzo[a]anthracene, water, unfiltered, recoverable, µg/L (34526)	Benzo[a]pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo[a]fluoranthene, water, unfiltered, recoverable, µg/L (34230)	Benzo[ghi]perylene, water, unfiltered, recoverable, µg/L (34521)
10-12-2010	1400	<0.28	<0.30	2.9	<0.38	<0.026	<0.26	<0.32	<0.30	<0.38

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Benzo[k]fluoranthene, water, unfiltered, recoverable, µg/L (34242)	Benzyl n-butyl phthalate, water, unfiltered, recoverable, µg/L (34292)	Bis(2-chloroethoxy)methane, water, unfiltered, recoverable, µg/L (34278)	Bis(2-chloroethyl) ether, water, unfiltered, recoverable, µg/L (34273)	Bis(2-chloroisopropyl) ether, water, unfiltered, recoverable, µg/L (34283)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Bromobenzene, water, unfiltered, recoverable, µg/L (81555)	Bromochloromethane, water, unfiltered, recoverable, µg/L (77297)	Bromodichloromethane, water, unfiltered, recoverable, µg/L (32101)
10-12-2010	1400	<0.30	<1.8	<0.24	<0.30	<0.14	<2.6	<0.022	<0.06	<0.034

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Bromoethene, water, unfiltered, recoverable, µg/L (50002)	Chlorobenzene, water, unfiltered, recoverable, µg/L (34301)	Chloroethane, water, unfiltered, recoverable, µg/L (34311)	Chloromethane, water, unfiltered, recoverable, µg/L (34418)	Chrysene, water, unfiltered, recoverable, µg/L (34320)	cis-1,2-Dichloroethene, water, unfiltered, recoverable, µg/L (77093)	Dibenzo[a,h]anthracene, water, unfiltered, recoverable, µg/L (34556)	Dibromochloromethane, water, unfiltered, recoverable, µg/L (32105)	Dibromomethane, water, unfiltered, recoverable, µg/L (30217)
10-12-2010	1400	<0.12	<0.026	<0.06	<0.1	<0.32	<0.022	<0.42	<0.12	<0.050

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

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WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Dichloro-difluoromethane, water, unfiltered, recoverable, µg/L (34668)	Dichloromethane, water, unfiltered, recoverable, µg/L (34423)	Diethyl ether, water, unfiltered, recoverable, µg/L (81576)	Diethyl phthalate, water, unfiltered, recoverable, µg/L (34336)	Diisopropyl ether, water, unfiltered, recoverable, µg/L (81577)	Dimethyl phthalate, water, unfiltered, recoverable, µg/L (34341)	Di-n-butyl phthalate, water, unfiltered, recoverable, µg/L (39110)	Di-n-octyl phthalate, water, unfiltered, recoverable, µg/L (34596)	Ethyl methacrylate, water, unfiltered, recoverable, µg/L (73570)
10-12-2010	1400	<0.10	<0.04	<0.1	<0.62	<0.06	0.03	<2.00	<0.6	<0.20

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Ethyl methyl ketone, water, unfiltered, recoverable, µg/L (81595)	Ethylbenzene, water, unfiltered, recoverable, µg/L (34371)	Fluoranthene, water, unfiltered, recoverable, µg/L (34376)	Hexachlorobutadiene, water, unfiltered, recoverable, µg/L (39702)	Hexachlorocyclopentadiene, water, unfiltered, recoverable, µg/L (34386)	Hexachloroethane, water, unfiltered, recoverable, µg/L (34396)	Indeno[1,2,3-cd]pyrene, water, unfiltered, recoverable, µg/L (34403)	Isobutyl methyl ketone, water, unfiltered, recoverable, µg/L (78133)	Iso-phorone, water, unfiltered, recoverable, µg/L (34408)
10-12-2010	1400	0.5	<0.036	<0.30	<0.08	<0.50	<0.22	<0.38	E0.17	0.05

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[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Isopropylbenzene, water, unfiltered, recoverable, µg/L (77223)	Methyl acetate, water, unfiltered, recoverable, µg/L (77032)	Methyl acrylate, water, unfiltered, recoverable, µg/L (49991)	Methyl acrylonitrile, water, unfiltered, recoverable, µg/L (81593)	Methyl methacrylate, water, unfiltered, recoverable, µg/L (81597)	Methyl tert-butyl ether, water, unfiltered, recoverable, µg/L (78032)	Methyl tert-pentyl ether, water, unfiltered, recoverable, µg/L (50005)	Methylene blue active substances, water, unfiltered, recoverable, mg/L (38260)	m-Xylene plus p-xylene, water, unfiltered, recoverable, µg/L (85795)
10-12-2010	1400	<0.042	<0.46	<0.8	<0.26	<0.22	<0.10	<0.06	0.052	<0.08

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Naphthalene, water, unfiltered, recoverable, µg/L (34696)	n-Butyl methyl ketone, water, unfiltered, recoverable, µg/L (77103)	n-Butylbenzene, water, unfiltered, recoverable, µg/L (77342)	Nitrobenzene, water, unfiltered, recoverable, µg/L (34447)	N-Nitrosodimethylamine, water, unfiltered, recoverable, µg/L (34438)	N-Nitrosodipropylamine, water, unfiltered, recoverable, µg/L (34428)	N-Nitrosodiphenylamine, water, unfiltered, recoverable, µg/L (34433)	n-Propylbenzene, water, unfiltered, recoverable, µg/L (77224)	o-Xylene, water, unfiltered, recoverable, µg/L (77135)
10-12-2010	1400	<0.18	<0.4	<0.08	<0.26	<0.24	<0.4	<0.28	<0.036	<0.032

WATER-QUALITY DATA
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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)	Phenol, water, unfiltered, recoverable, µg/L (34694)	Pyrene, water, unfiltered, recoverable, µg/L (34469)	sec-Butylbenzene, water, unfiltered, recoverable, µg/L (77350)	Styrene, water, unfiltered, recoverable, µg/L (77128)	tert-Amyl alcohol, water, unfiltered, recoverable, µg/L (77073)	tert-Butyl alcohol, water, unfiltered, recoverable, µg/L (77035)	tert-Butyl ethyl ether, water, unfiltered, recoverable, µg/L (50004)	tert-Butylbenzene, water, unfiltered, recoverable, µg/L (77353)
10-12-2010	1400	<0.32	<0.28	<0.36	<0.034	<0.042	<0.6	<0.80	<0.032	<0.060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Tetrachloroethene, water, unfiltered, recoverable, µg/L (34475)	Tetrachloromethane, water, unfiltered, recoverable, µg/L (32102)	Tetrahydrofuran, water, unfiltered, recoverable, µg/L (81607)	Toluene, water, unfiltered, recoverable, µg/L (34010)	trans-1,2-Dichloroethene, water, unfiltered, recoverable, µg/L (34546)	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, µg/L (73547)	Tribromomethane, water, unfiltered, recoverable, µg/L (32104)	Trichloroethene, water, unfiltered, recoverable, µg/L (39180)	Trichlorofluoromethane, water, unfiltered, recoverable, µg/L (34488)
10-12-2010	1400	<0.026	<0.06	<1.4	0.03	<0.018	<0.4	<0.10	<0.022	<0.06

01376534 RICHMOND CREEK AT LIGHTHOUSE AVE AT RICHMOND, NY—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO₂, silicon dioxide; 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; M, presence verified but not quantified]

Date	Sample start time	Trichloro- methane, water, unfiltered, recover- able, µg/L (32106)	Vinyl chloride, water, unfiltered, recover- able, µg/L (39175)	Oil and grease, severity (01300)
10-12-2010	1400	0.02	<0.06	None