



Water-Data Report 2009

01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY

Lower Hudson Basin  
Bronx Subbasin

LOCATION.--Lat 40°51'44.3", long 73°52'27.8" referenced to North American Datum of 1983, Bronx County, NY, Hydrologic Unit 02030102, on left bank at New York Botanical Garden in Bronx.

DRAINAGE AREA.--38.4 mi<sup>2</sup>, not including 12.7 mi<sup>2</sup>, from which the entire flow is diverted for municipal water supply.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 2006 to current year.

GAGE.--Water stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Entire flow, runoff from 12.7 mi<sup>2</sup>, diverted from Kensico Reservoir for water supply of City of New York and entire flow, runoff from 0.68 mi<sup>2</sup>, except for periods of spill, diverted from White Plains Reservoirs 1 and 2 for water supply of City of White Plains. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft<sup>3</sup>/s, Apr. 16, 2007, gage height, 6.05 ft; minimum discharge, 14 ft<sup>3</sup>/s, July 15, 17, 18, Sept. 30, Oct. 1, 2007; minimum gage height, 0.48 ft, Sept. 30, Oct. 1, 2007.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 12	0645	*1,180	*3.29
Jun. 18	1545	1,060	3.11
Aug. 22	1645	912	2.86

Minimum discharge, 20 ft<sup>3</sup>/s, Oct. 15, Sept. 26; minimum gage height, 0.55 ft, Oct. 15.

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009  
DAILY MEAN VALUES  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	43	34	113	71	46	38	37	48	33	128	115	48
2	32	31	53	64	49	42	59	58	32	104	252	44
3	27	30	42	61	56	39	127	70	38	78	118	38
4	26	29	40	57	52	36	80	71	121	68	67	31
5	49	27	39	56	44	36	47	66	105	56	88	27
6	32	45	36	60	42	44	84	116	98	46	57	e27
7	26	32	35	222	41	49	71	436	48	50	48	e26
8	24	47	33	145	57	51	46	131	42	217	45	e26
9	27	60	32	87	68	65	42	163	226	68	44	e25
10	26	30	56	77	51	53	41	102	75	70	65	37
11	24	26	180	86	51	46	76	88	67	63	82	65
12	23	25	764	73	76	45	60	84	141	92	60	99
13	22	33	195	61	55	41	44	75	62	63	65	39
14	21	86	126	57	50	39	41	69	47	57	57	32
15	21	168	104	54	45	39	83	80	144	57	45	e29
16	22	138	98	52	43	38	48	63	71	52	43	e28
17	22	61	139	55	42	35	47	82	53	58	41	e27
18	22	49	97	51	54	34	47	62	531	75	42	26
19	22	44	88	53	89	36	43	52	287	53	40	24
20	22	41	87	50	51	36	105	48	131	47	40	25
21	23	41	109	46	44	30	256	44	232	180	87	25
22	27	39	89	44	43	29	103	41	160	85	514	25
23	25	38	69	44	44	29	92	39	98	64	262	24
24	25	38	111	44	40	29	69	36	131	69	90	28
25	54	99	220	42	39	30	66	35	110	120	69	22
26	134	56	119	41	39	37	63	33	107	62	57	21
27	29	40	100	41	41	63	58	32	109	70	49	108
28	334	36	106	95	41	33	53	33	102	48	69	40
29	93	34	94	105	---	61	50	65	99	92	228	33
30	48	71	81	55	---	64	46	41	140	113	90	25
31	37	---	83	48	---	37	---	34	---	130	62	---
<b>Total</b>	1,362	1,528	3,538	2,097	1,393	1,284	2,084	2,397	3,640	2,535	2,991	1,074
<b>Mean</b>	43.9	50.9	114	67.6	49.8	41.4	69.5	77.3	121	81.8	96.5	35.8
<b>Max</b>	334	168	764	222	89	65	256	436	531	217	514	108
<b>Min</b>	21	25	32	41	39	29	37	32	32	46	40	21

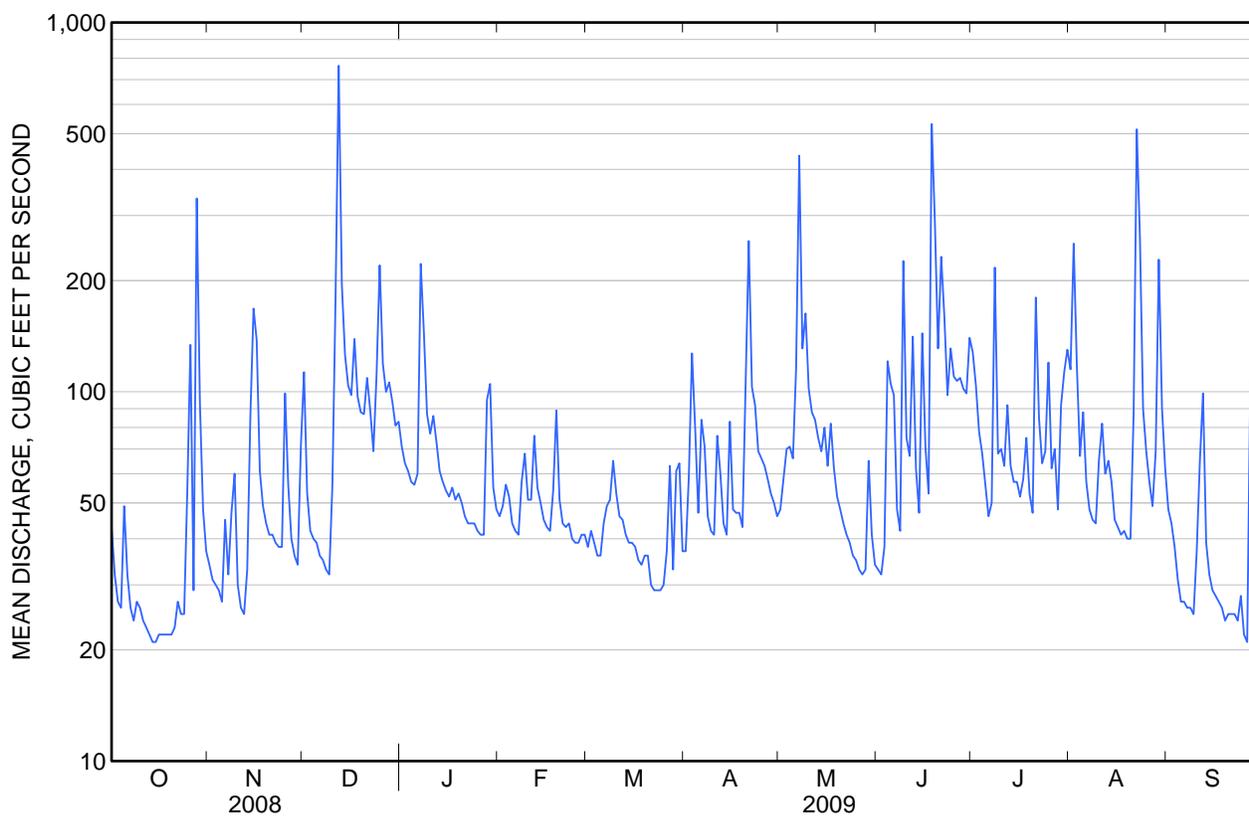
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	55.4	75.0	83.2	79.7	82.1	102	141	79.1	84.8	56.3	67.3	56.5
<b>Max</b>	79.6	140	114	95.9	152	143	280	96.7	121	81.8	96.5	90.5
<b>(WY)</b>	(2007)	(2007)	(2009)	(2007)	(2008)	(2008)	(2007)	(2008)	(2009)	(2009)	(2009)	(2008)
<b>Min</b>	42.7	34.4	63.2	67.6	41.9	41.4	69.5	63.3	53.4	39.0	47.5	26.7
<b>(WY)</b>	(2008)	(2008)	(2007)	(2009)	(2007)	(2009)	(2009)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2006 - 2009	
Annual total	31,206		25,923			
Annual mean	85.3		71.0		79.6	
Highest annual mean					87.6	2007
Lowest annual mean					71.0	2009
Highest daily mean	764	Dec 12	764	Dec 12	2,590	Apr 16, 2007
Lowest daily mean	20	Sep 5	21	Oct 14	15	Jul 15, 2007
Annual seven-day minimum	22	Oct 13	22	Oct 13	15	Sep 30, 2007
Maximum peak flow					3,460	Apr 16, 2007
Maximum peak stage					6.05	Apr 16, 2007
10 percent exceeds	162		120		140	
50 percent exceeds	61		51		53	
90 percent exceeds	26		27		24	



## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

## WATER-QUALITY RECORDS

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	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), detection angle 90 +/- 30 degrees to incident light, NTU (63675)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)
05-28-2009	1300	32	100	7.7	1,040	15.3	2.2	588	62.0	19.9

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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 <sub>3</sub> (90410)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)	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)
05-28-2009	4.31	93.9	145	222	.21	10.0	29.5	.083	1.17	.050

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Orthophosphate, water, filtered, mg/L as P (00671)	Barium, water, unfiltered, recoverable, μg/L (01007)	Cadmium, water, unfiltered, μg/L (01027)	Chromium, water, unfiltered, recoverable, μg/L (01034)	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)
05-28-2009	.037	102	< .06	.54	E 2.4	62	355	1.86	77.2	120

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Mercury, water, unfiltered, recoverable, μg/L (71900)	Silver, water, unfiltered, recoverable, μg/L (01077)	Zinc, water, unfiltered, recoverable, μg/L (01092)	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)
05-28-2009	< .010	E .05	5.8	.77	.33	< .12	< 1.0	< .04	< .1	< .02

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 5 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	1,3-Di-chloro-propane, water, unfiltered, recoverable, μg/L (77173)	1,4-Dichloro-benzene, water, unfiltered, recoverable, μg/L (34571)	1-Naphthol, water, (0.7 micron glass fiber filter), recoverable, μg/L (49295)	2,4,6-Trichloro-phenol, water, unfiltered, recoverable, μg/L (34621)	2,4-Dichloro-phenol, water, unfiltered, recoverable, μg/L (34601)	2,4-Dimethyl-phenol, water, unfiltered, recoverable, μg/L (34606)	2,6-Diethyl-aniline, water, (0.7 micron glass fiber filter), recoverable, μg/L (82660)	2-Chloro-2',6'-diethyl-acetanilide, water, filtered, recoverable, μg/L (61618)	2-Chloro-4-isopropyl-amino-6-amino-s-triazine, water, filtered, recoverable, μg/L (04040)	2-Ethyl-6-methyl-aniline, water, filtered, recoverable, μg/L (61620)
05-28-2009	< .1	< .02	< .04	< 0.6	< 0.39	< .8	< .006	< .010	E .013	< .010

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 6 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	3,4-Dichloro-aniline, water, filtered, recoverable, μg/L (61625)	3-Chloro-propene, water, unfiltered, recoverable, μg/L (78109)	4-Chloro-2-methyl-phenol, water, filtered, recoverable, μg/L (61633)	4-Chloro-3-methyl-phenol, water, filtered, recoverable, μg/L (34452)	4-Nitro-phenol, water, unfiltered, recoverable, μg/L (34646)	Aceto-chlor, water, filtered, recoverable, μg/L (49260)	Acrylo-nitrile, water, unfiltered, recoverable, μg/L (34215)	Alachlor, water, filtered, recoverable, μg/L (46342)	Aldrin, water, unfiltered, recoverable, μg/L (39330)	alpha-Endo-sulfan, water, unfiltered, recoverable, μg/L (39388)
05-28-2009	< .004	< .08	< .005	< 0.55	< 0.51	< .010	< 0.4	< .008	< .01	< .01

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 7 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Atrazine, water, filtered, recover- able, µg/L (39632)	Azinphos- methyl oxygen analog, water, filtered, recover- able, µg/L (61635)	Azinphos- methyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82673)	Bromo- methane, water, unfiltered, recover- able, µg/L (34413)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82680)	Carbon disulfide, water, unfiltered, µg/L (77041)	Chlordane (techni- cal), water, unfiltered, recover- able, µg/L (39350)	Chlorpyrifos oxygen analog, water, filtered, recover- able, µg/L (61636)
05-28- 2009	.012	< .04	< .120	< .014	< .4	< .200	< .04	< .1	< .05

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 8 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Chlor- pyrifos, water, filtered, recover- able, µg/L (38933)	cis-1,3-Di- chloro- propene, water, unfiltered, recover- able, µg/L (34704)	cis- Permeth- rin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82687)	Cyfluthrin, water, filtered, recover- able, µg/L (61585)	Cyper- methrin, water, filtered, recover- able, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82682)	Desulfinyl- fipronil amide, water, filtered, recover- able, µg/L (62169)	Desulfinyl- fipronil, water, filtered, recover- able, µg/L (62170)	Diazinon, water, filtered, recover- able, µg/L (39572)	Dichlor- vos, water, filtered, recover- able, µg/L (38775)
05-28- 2009	< .010	< .10	< .014	< .016	< .020	< .006	< .029	< .012	< .005	< .02

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 9 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	Fenamiphos sulfone, water, filtered, recoverable, μg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, μg/L (61646)	Fenamiphos, water, filtered, recoverable, μg/L (61591)
05-28-2009	< .08	< .009	< .008	< .009	< .01	< .02	< .012	< .053	< .08	< .03

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 10 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	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)
05-28-2009	< .024	< .040	< .010	< .009	< .01	< 0.30	.023	< .80	< .014	< .006

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 11 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Lindane, water, unfiltered, recover- able, μg/L (39340)	Malaoxon, water, filtered, recover- able, μg/L (61652)	Malathion, water, filtered, recover- able, μg/L (39532)	Metalaxyl, water, filtered, recover- able, μg/L (61596)	Methida- thion, water, filtered, recover- able, μg/L (61598)	Methyl paraoxon, water, filtered, recover- able, μg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82667)	Metola- chlor, water, filtered, recover- able, μg/L (39415)	Metribuzin, water, filtered, recover- able, μg/L (82630)	Mirex, water, unfiltered, recover- able, μg/L (39755)
05-28- 2009	< .014	< .080	< .020	E .011	< .006	< .01	< .008	< .014	< .016	< .006

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 12 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Myclo- butanil, water, filtered, recover- able, μg/L (61599)	p,p'-DDD, water, unfiltered, recover- able, μg/L (39360)	p,p'-DDE, water, unfiltered, recover- able, μg/L (39365)	p,p'-DDT, water, unfiltered, recover- able, μg/L (39370)	p,p'- Methoxy- chlor, water, unfiltered, recover- able, μg/L (39480)	Pendi- methalin, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82683)	Penta- chloro- phenol, water, unfiltered, recover- able, μg/L (39032)	Phorate oxygen analog, water, filtered, recover- able, μg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82664)	Phosmet oxygen analog, water, filtered, recover- able, μg/L (61668)
05-28- 2009	< .010	< .016	< .014	< .010	< .002	< .012	< 1	< .03	< .020	< .05

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 13 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Phosmet, water, filtered, recover- able, μg/L (61601)	Prometon, water, filtered, recover- able, μg/L (04037)	Prometryn, water, filtered, recover- able, μg/L (04036)	Propyz- amide, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82676)	Simazine, water, filtered, recover- able, μg/L (04035)	Tebu- thiuron, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82670)	Terbufos oxygen sulfone, water, filtered, recover- able, μg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82675)	Terbuthyl- azine, water, filtered, recover- able, μg/L (04022)	Toxa- phene, water, unfiltered, recover- able, μg/L (39400)
05-28- 2009	< .200	< .05	< .006	< .004	E .010	< .02	< .04	< .02	< .01	< 1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	trans-1,3- Dichloro- propene, water, unfiltered, recover- able, μg/L (34699)	Tribuphos, water, filtered, recover- able, μg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recover- able, μg/L (82661)	PCBs, water, unfiltered, recover- able, μg/L (39516)	1,1,1,2- Tetra- chloro- ethane, water, unfiltered, recover- able, μg/L (77562)	1,1,1-Tri- chloro- ethane, water, unfiltered, recover- able, μg/L (34506)	1,1,2,2- Tetra- chloro- ethane, water, unfiltered, recover- able, μg/L (34516)	1,1,2-Tri- chloro- trifluoro- ethane, water, unfiltered, recover- able, μg/L (77652)	1,1,2-Tri- chloro- ethane, water, unfiltered, recover- able, μg/L (34511)	1,1-Di- chloro- ethane, water, unfiltered, recover- able, μg/L (34496)
05-28- 2009	< .10	< .035	< .012	< .1	< .04	< .02	< .10	< .04	< .06	< .04

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 15 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	1,2-Diphenyl-hydrazine, water, unfiltered, recoverable, µg/L (82626)
05-28-2009	< .02	< .04	< .1	< .1	< .1	< .1	< 0.04	< .04	< .02	< 0.30

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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-toluene, water, unfiltered, recoverable, µg/L (34611)	2,6-Dinitro-toluene, water, unfiltered, recoverable, µg/L (34626)	2-Chloro-naph-thalene, water, unfiltered, recoverable, µg/L (34581)	2-Chloro-phenol, water, unfiltered, recoverable, µg/L (34586)	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)
05-28-2009	< .04	< .02	< .06	< 0.6	< 0.43	< 0.2	< 0.42	< .02	< .02	< 0.4

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 17 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	3,3'-Dichlorobenzidine, water, unfiltered, recoverable, μg/L (34631)	4-Bromophenyl ether, water, unfiltered, recoverable, μg/L (34636)	4-Chlorophenyl ether, water, unfiltered, recoverable, μg/L (34641)	4-Chlorotoluene, water, unfiltered, recoverable, μg/L (77277)	4-Iso-propyltoluene, water, unfiltered, recoverable, μg/L (77356)	9H-Fluorene, water, unfiltered, recoverable, μg/L (34381)	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)
05-28-2009	< 0.4	< 0.36	< 0.34	< .02	< .06	< 0.33	M	< 0.30	< 4	< 0.39

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	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)
05-28-2009	< .02	< 0.26	< 0.33	< 0.40	< 0.4	< 0.4	< 2	< 0.2	< 0.30	< 0.38

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 19 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Bis(2-ethyl-hexyl) phthalate, water, unfiltered, recoverable, μg/L (39100)	Bromo-benzene, water, unfiltered, recoverable, μg/L (81555)	Bromo-chloro-methane, water, unfiltered, recoverable, μg/L (77297)	Bromo-dichloro-methane, water, unfiltered, recoverable, μg/L (32101)	Bromo-ethene, water, unfiltered, recoverable, μg/L (50002)	Chloro-benzene, water, unfiltered, recoverable, μg/L (34301)	Chloro-ethane, water, unfiltered, recoverable, μg/L (34311)	Chloro-methane, water, unfiltered, recoverable, μg/L (34418)	Chrysene, water, unfiltered, recoverable, μg/L (34320)	cis-1,2-Di-chloro-ethene, water, unfiltered, recoverable, μg/L (77093)
05-28-2009	< 2	< .02	< .06	E .05	< .1	< .02	< .1	< .1	< 0.33	E .08

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Dibenzo-[a,h]-anthracene, water, unfiltered, recoverable, μg/L (34556)	Dibromo-chloro-methane, water, unfiltered, recoverable, μg/L (32105)	Dibromo-methane, water, unfiltered, recoverable, μg/L (30217)	Dichloro-difluoro-methane, water, unfiltered, recoverable, μg/L (34668)	Dichloro-methane, water, unfiltered, recoverable, μg/L (34423)	Diethyl ether, water, unfiltered, recoverable, μg/L (81576)	Diethyl phthalate, water, unfiltered, recoverable, μg/L (34336)	Diiso-propyl 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)
05-28-2009	< 0.4	< .1	< .04	< .10	< 0.04	< .1	< 0.61	< .06	< 0.4	< 1

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 21 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Di-n-octyl phthalate, water, unfiltered, recoverable, μg/L (34596)	Ethyl methacrylate, water, unfiltered, recoverable, μg/L (73570)	Ethyl methyl ketone, water, unfiltered, recoverable, μg/L (81595)	Ethyl benzene, 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)
05-28-2009	< 0.6	< .1	< 1.6	< .04	< 0.30	< .1	< 0.4	< .1	< 0.4	< .4

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 22 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Iso-phorone, water, unfiltered, recoverable, μg/L (34408)	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)
05-28-2009	< 0.4	< .04	< .4	< .6	< .2	< .2	.19	< .06	E .07	< .08

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 23 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Naphthalene, water, unfiltered, recoverable, µg/L (34696)	n-Butyl methyl ketone, water, unfiltered, recoverable, µg/L (77103)	n-Butyl benzene, 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)	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)
05-28-2009	< .2	< .6	< .1	< 0.2	< 0.2	< 0.4	< 0.4	< .04	< .04	< 0.32

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	Tetrachloroethene, water, unfiltered, recoverable, µg/L (34475)	Tetrachloromethane, water, unfiltered, recoverable, µg/L (32102)
05-28-2009	< .4	< 0.35	< .02	< .04	< .6	< 1.00	< .04	< .06	.26	< .06

## 01302020 BRONX RIVER AT NEW YORK BOTANICAL GARDEN AT BRONX, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 25 of 25

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; PCBs, polychlorinated biphenyls; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	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)	Trichloromethane, water, unfiltered, recoverable, μg/L (32106)	Vinyl chloride, water, unfiltered, recoverable, μg/L (39175)
05-28-2009	< 1	.11	< .02	< .4	< .10	E .07	< .08	.33	< .1