

Water-Data Report 2013

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY

Upper Hudson Basin
Hudson-Wappinger Subbasin

LOCATION.--Lat 41°23'10", long 73°57'20" referenced to North American Datum of 1927, Orange County, NY, Hydrologic Unit 02020008, on right bank at South Dock at West Point. Water-quality sampling site at elevation station.

DRAINAGE AREA.--12,596 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to February 2012, June to September 2013. Records for June 1989 to September 1991 are unpublished and available in files of the Geological Survey.

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

REMARKS.--Prior to October 2002 published as maximum, minimum, and mean elevation. Elevations are not corrected for changes in water density. Blanks in tables are the result of only one high or low tide during a day or interruption of record. Satellite and telephone elevation and water-quality telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.65 ft, Aug. 28, 2011; minimum elevation, -4.26 ft, Mar. 14, 1993.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 29, 2012, reached an elevation of 9.60 ft, from floodmark.

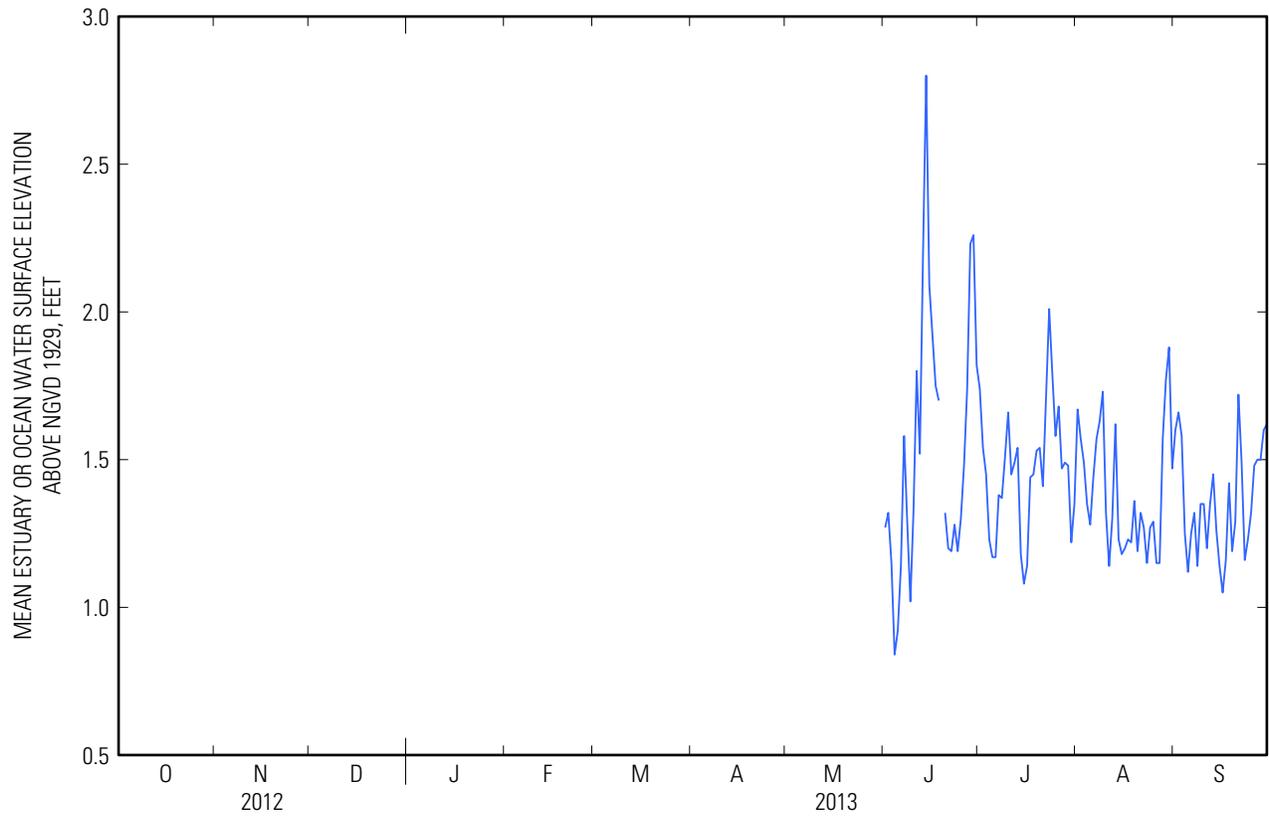
EXTREMES FOR CURRENT YEAR.--(June to September) Maximum elevation, 4.30 ft, June 14; minimum elevation, -1.16 ft, June 21.

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	1.27	1.74	1.67	1.60
2	---	---	---	---	---	---	---	---	1.32	1.54	1.57	1.66
3	---	---	---	---	---	---	---	---	1.15	1.45	1.49	1.58
4	---	---	---	---	---	---	---	---	0.84	1.23	1.35	1.25
5	---	---	---	---	---	---	---	---	0.92	1.17	1.28	1.12
6	---	---	---	---	---	---	---	---	1.14	1.17	1.44	1.25
7	---	---	---	---	---	---	---	---	1.58	1.38	1.57	1.32
8	---	---	---	---	---	---	---	---	1.29	1.37	1.63	1.14
9	---	---	---	---	---	---	---	---	1.02	1.51	1.73	1.35
10	---	---	---	---	---	---	---	---	1.33	1.66	1.32	1.35
11	---	---	---	---	---	---	---	---	1.80	1.45	1.14	1.20
12	---	---	---	---	---	---	---	---	1.52	1.49	1.30	1.35
13	---	---	---	---	---	---	---	---	2.19	1.54	1.62	1.45
14	---	---	---	---	---	---	---	---	2.80	1.18	1.23	1.26
15	---	---	---	---	---	---	---	---	2.09	1.08	1.18	1.14
16	---	---	---	---	---	---	---	---	1.92	1.14	1.20	1.05
17	---	---	---	---	---	---	---	---	1.75	1.44	1.23	1.16
18	---	---	---	---	---	---	---	---	1.70	1.45	1.22	1.42
19	---	---	---	---	---	---	---	---	---	1.53	1.36	1.19
20	---	---	---	---	---	---	---	---	1.32	1.54	1.19	1.29
21	---	---	---	---	---	---	---	---	1.20	1.41	1.32	1.72
22	---	---	---	---	---	---	---	---	1.19	1.71	1.27	1.49
23	---	---	---	---	---	---	---	---	1.28	2.01	1.15	1.16
24	---	---	---	---	---	---	---	---	1.19	1.79	1.27	1.23
25	---	---	---	---	---	---	---	---	1.30	1.58	1.29	1.32
26	---	---	---	---	---	---	---	---	1.48	1.68	1.15	1.48
27	---	---	---	---	---	---	---	---	1.74	1.47	1.15	1.50
28	---	---	---	---	---	---	---	---	2.23	1.49	1.57	1.50
29	---	---	---	---	---	---	---	---	2.26	1.48	1.77	1.60
30	---	---	---	---	---	---	---	---	1.82	1.22	1.88	1.62
31	---	---	---	---	---	---	---	---	---	1.35	1.47	---
Mean	---	---	---	---	---	---	---	---	---	1.46	1.39	1.36
Max	---	---	---	---	---	---	---	---	---	2.01	1.88	1.72
Min	---	---	---	---	---	---	---	---	---	1.08	1.14	1.05

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

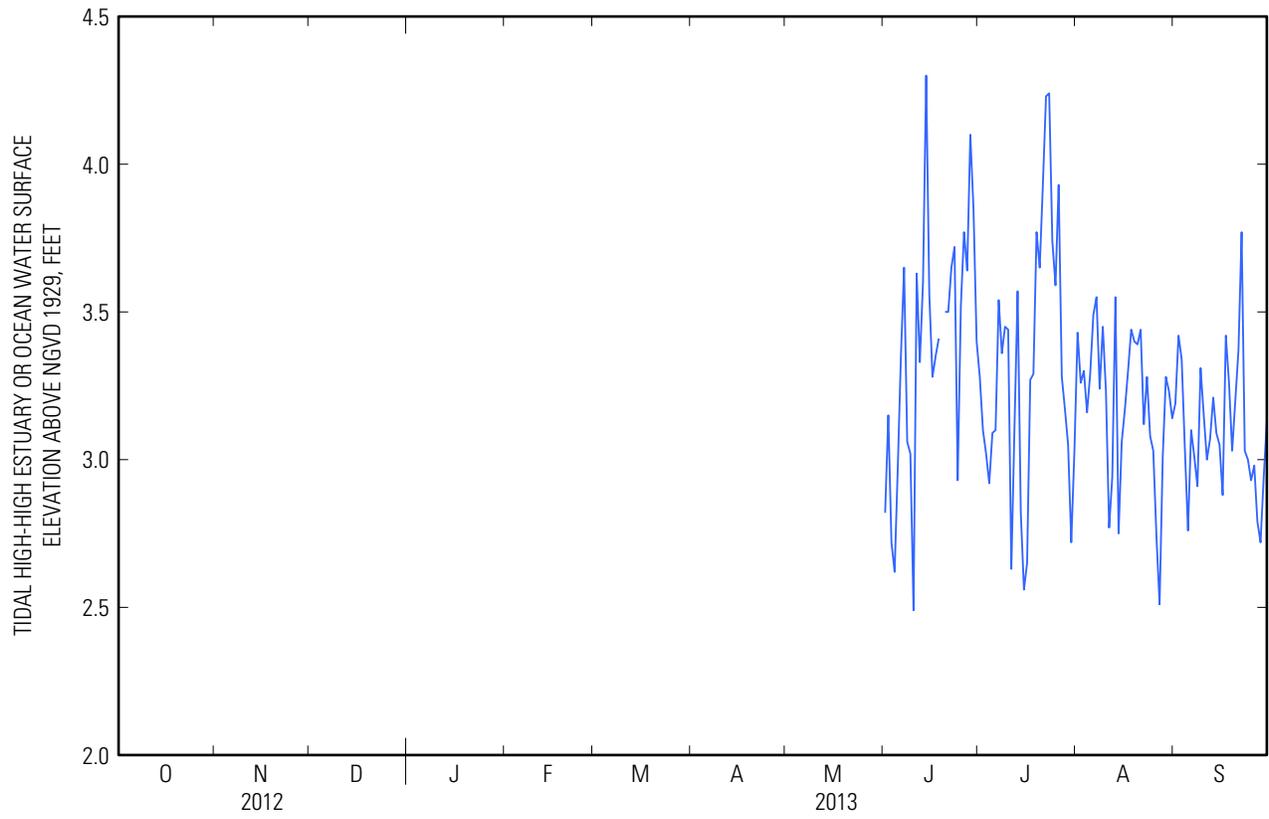


01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL HIGH-HIGH VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	2.82	3.28	3.43	3.19
2	---	---	---	---	---	---	---	---	3.15	3.10	3.26	3.42
3	---	---	---	---	---	---	---	---	2.72	3.02	3.30	3.34
4	---	---	---	---	---	---	---	---	2.62	2.92	3.16	3.04
5	---	---	---	---	---	---	---	---	2.97	3.09	3.29	2.76
6	---	---	---	---	---	---	---	---	3.35	3.10	3.49	3.10
7	---	---	---	---	---	---	---	---	3.65	3.54	3.55	3.01
8	---	---	---	---	---	---	---	---	3.06	3.36	3.24	2.91
9	---	---	---	---	---	---	---	---	3.02	3.45	3.45	3.31
10	---	---	---	---	---	---	---	---	2.49	3.44	3.23	3.15
11	---	---	---	---	---	---	---	---	3.63	2.63	2.77	3.00
12	---	---	---	---	---	---	---	---	3.33	3.11	2.94	3.07
13	---	---	---	---	---	---	---	---	3.60	3.57	3.55	3.21
14	---	---	---	---	---	---	---	---	4.30	2.82	2.75	3.09
15	---	---	---	---	---	---	---	---	3.56	2.56	3.06	3.05
16	---	---	---	---	---	---	---	---	3.28	2.65	3.17	2.88
17	---	---	---	---	---	---	---	---	3.35	3.27	3.30	3.42
18	---	---	---	---	---	---	---	---	3.41	3.29	3.44	3.26
19	---	---	---	---	---	---	---	---	---	3.77	3.40	3.03
20	---	---	---	---	---	---	---	---	3.50	3.65	3.39	3.20
21	---	---	---	---	---	---	---	---	3.50	3.93	3.44	3.37
22	---	---	---	---	---	---	---	---	3.65	4.23	3.12	3.77
23	---	---	---	---	---	---	---	---	3.72	4.24	3.28	3.03
24	---	---	---	---	---	---	---	---	2.93	3.74	3.08	3.00
25	---	---	---	---	---	---	---	---	3.52	3.59	3.03	2.93
26	---	---	---	---	---	---	---	---	3.77	3.93	2.74	2.98
27	---	---	---	---	---	---	---	---	3.64	3.28	2.51	2.79
28	---	---	---	---	---	---	---	---	4.10	3.17	3.01	2.72
29	---	---	---	---	---	---	---	---	3.85	3.05	3.28	2.94
30	---	---	---	---	---	---	---	---	3.40	2.72	3.23	3.13
31	---	---	---	---	---	---	---	---	---	3.03	3.14	---
Mean	---	---	---	---	---	---	---	---	---	3.31	3.19	3.10
Max	---	---	---	---	---	---	---	---	---	4.24	3.55	3.77
Min	---	---	---	---	---	---	---	---	---	2.56	2.51	2.72

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

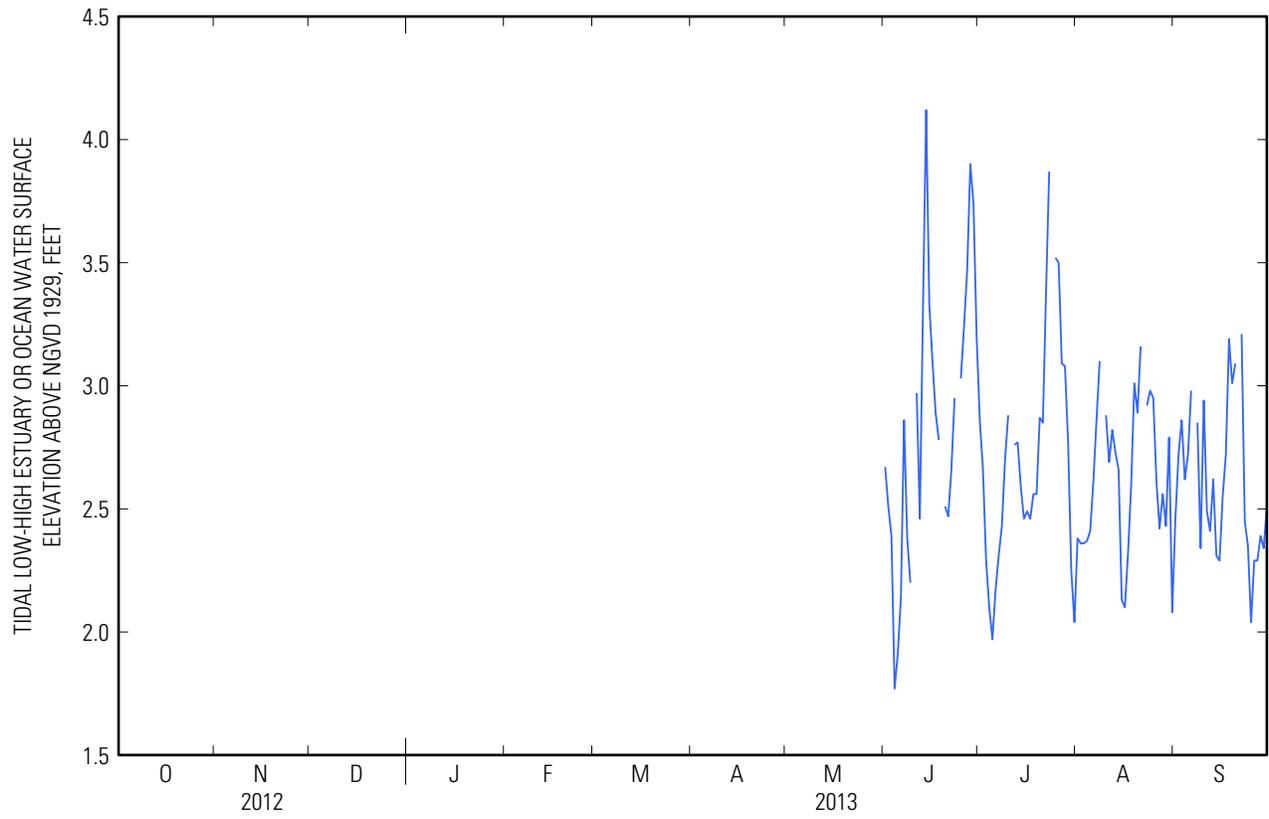


01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

 ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
 WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
 DAILY TIDAL LOW-HIGH VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	2.67	2.86	2.38	2.46
2	---	---	---	---	---	---	---	---	2.51	2.66	2.36	2.72
3	---	---	---	---	---	---	---	---	2.39	2.29	2.36	2.86
4	---	---	---	---	---	---	---	---	1.77	2.10	2.37	2.62
5	---	---	---	---	---	---	---	---	1.91	1.97	2.41	2.72
6	---	---	---	---	---	---	---	---	2.14	2.17	2.61	2.98
7	---	---	---	---	---	---	---	---	2.86	2.31	2.86	---
8	---	---	---	---	---	---	---	---	2.38	2.43	3.10	2.85
9	---	---	---	---	---	---	---	---	2.20	2.70	---	2.34
10	---	---	---	---	---	---	---	---	---	2.88	2.88	2.94
11	---	---	---	---	---	---	---	---	2.97	---	2.69	2.49
12	---	---	---	---	---	---	---	---	2.46	2.76	2.82	2.41
13	---	---	---	---	---	---	---	---	3.32	2.77	2.73	2.62
14	---	---	---	---	---	---	---	---	4.12	2.59	2.66	2.31
15	---	---	---	---	---	---	---	---	3.33	2.46	2.13	2.29
16	---	---	---	---	---	---	---	---	3.10	2.49	2.10	2.55
17	---	---	---	---	---	---	---	---	2.89	2.46	2.32	2.72
18	---	---	---	---	---	---	---	---	2.78	2.56	2.60	3.19
19	---	---	---	---	---	---	---	---	---	2.56	3.01	3.01
20	---	---	---	---	---	---	---	---	2.51	2.87	2.89	3.09
21	---	---	---	---	---	---	---	---	2.47	2.85	3.16	---
22	---	---	---	---	---	---	---	---	2.66	3.38	---	3.21
23	---	---	---	---	---	---	---	---	2.95	3.87	2.92	2.45
24	---	---	---	---	---	---	---	---	---	---	2.98	2.35
25	---	---	---	---	---	---	---	---	3.03	3.52	2.95	2.04
26	---	---	---	---	---	---	---	---	3.24	3.50	2.61	2.29
27	---	---	---	---	---	---	---	---	3.47	3.09	2.42	2.29
28	---	---	---	---	---	---	---	---	3.90	3.08	2.56	2.39
29	---	---	---	---	---	---	---	---	3.74	2.77	2.43	2.34
30	---	---	---	---	---	---	---	---	3.20	2.25	2.79	2.51
31	---	---	---	---	---	---	---	---	---	2.04	2.08	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

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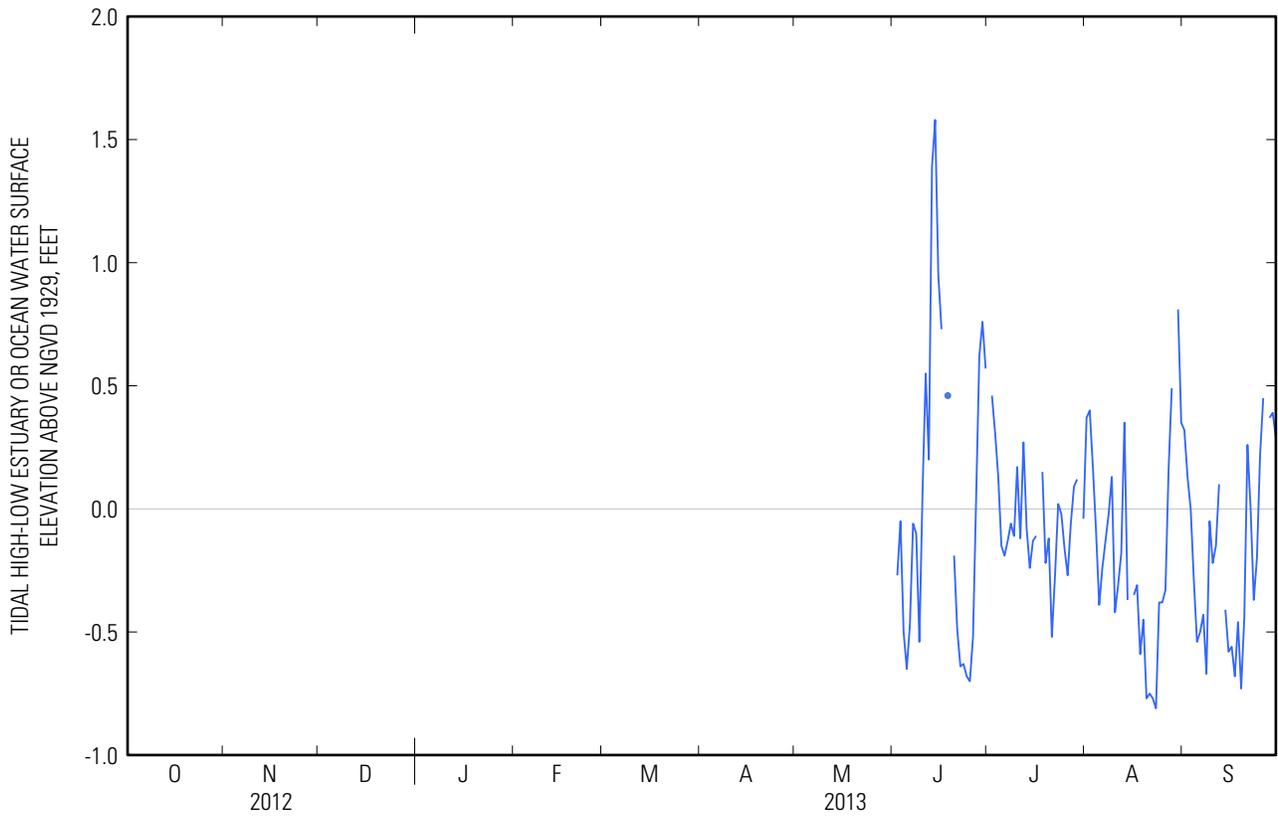


01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL HIGH-LOW VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	0.37	0.32
2	---	---	---	---	---	---	---	---	-0.27	0.46	0.40	0.13
3	---	---	---	---	---	---	---	---	-0.05	0.31	0.17	0.00
4	---	---	---	---	---	---	---	---	-0.50	0.13	-0.09	-0.29
5	---	---	---	---	---	---	---	---	-0.65	-0.15	-0.39	-0.54
6	---	---	---	---	---	---	---	---	-0.47	-0.19	-0.24	-0.50
7	---	---	---	---	---	---	---	---	-0.06	-0.13	-0.13	-0.43
8	---	---	---	---	---	---	---	---	-0.10	-0.06	-0.02	-0.67
9	---	---	---	---	---	---	---	---	-0.54	-0.11	0.13	-0.05
10	---	---	---	---	---	---	---	---	0.07	0.17	-0.42	-0.22
11	---	---	---	---	---	---	---	---	0.55	-0.12	-0.31	-0.15
12	---	---	---	---	---	---	---	---	0.20	0.27	-0.18	0.10
13	---	---	---	---	---	---	---	---	1.39	-0.08	0.35	---
14	---	---	---	---	---	---	---	---	1.58	-0.24	-0.37	-0.41
15	---	---	---	---	---	---	---	---	0.95	-0.13	---	-0.58
16	---	---	---	---	---	---	---	---	0.73	-0.11	-0.35	-0.56
17	---	---	---	---	---	---	---	---	---	---	-0.31	-0.68
18	---	---	---	---	---	---	---	---	0.46	0.15	-0.59	-0.46
19	---	---	---	---	---	---	---	---	---	-0.22	-0.45	-0.73
20	---	---	---	---	---	---	---	---	-0.19	-0.12	-0.77	-0.44
21	---	---	---	---	---	---	---	---	-0.49	-0.52	-0.75	0.26
22	---	---	---	---	---	---	---	---	-0.64	-0.27	-0.77	0.00
23	---	---	---	---	---	---	---	---	-0.63	0.02	-0.81	-0.37
24	---	---	---	---	---	---	---	---	-0.68	-0.02	-0.38	-0.20
25	---	---	---	---	---	---	---	---	-0.70	-0.16	-0.38	0.22
26	---	---	---	---	---	---	---	---	-0.52	-0.27	-0.33	0.45
27	---	---	---	---	---	---	---	---	0.05	-0.06	0.16	---
28	---	---	---	---	---	---	---	---	0.62	0.09	0.49	0.37
29	---	---	---	---	---	---	---	---	0.76	0.12	---	0.39
30	---	---	---	---	---	---	---	---	0.57	---	0.81	0.29
31	---	---	---	---	---	---	---	---	---	-0.04	0.35	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

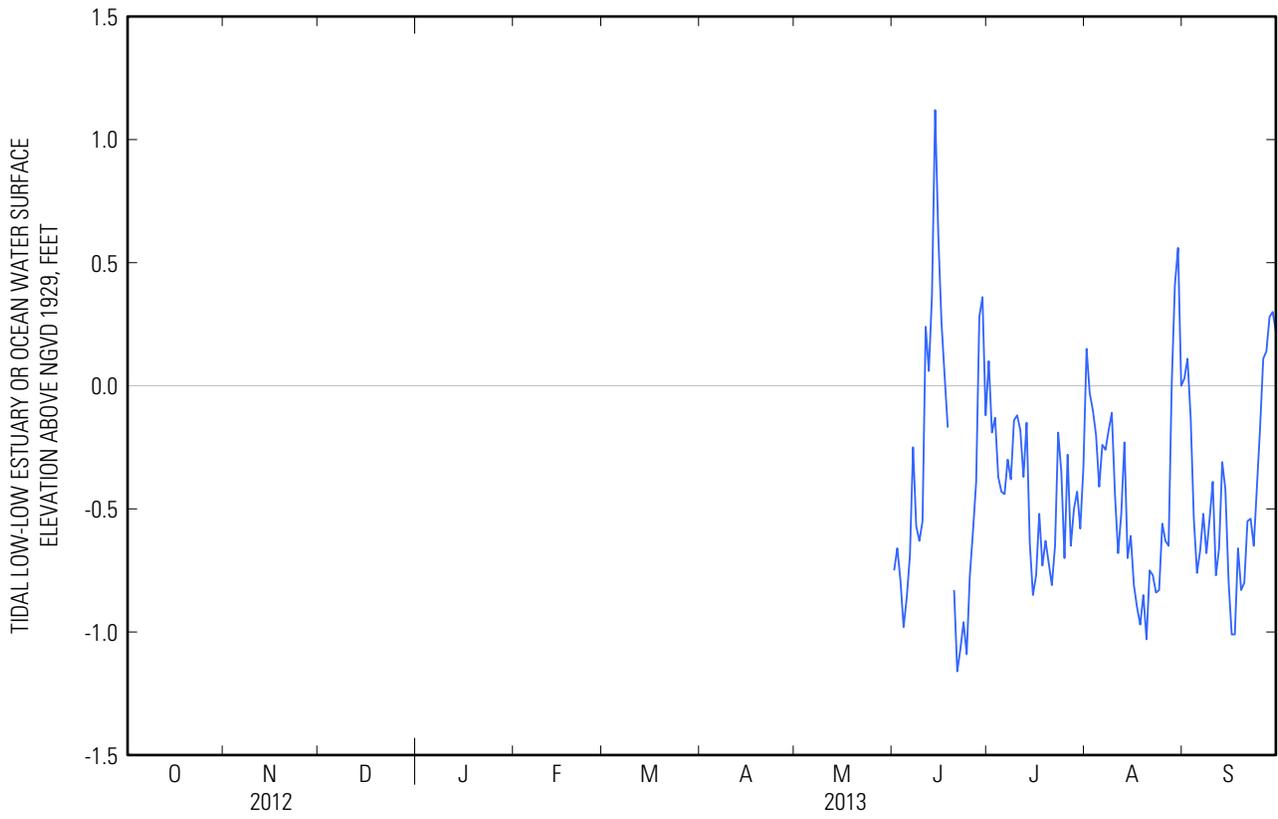


01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

 ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
 WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
 DAILY TIDAL LOW-LOW VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	-0.75	0.10	0.15	0.03
2	---	---	---	---	---	---	---	---	-0.66	-0.19	-0.03	0.11
3	---	---	---	---	---	---	---	---	-0.79	-0.13	-0.10	-0.13
4	---	---	---	---	---	---	---	---	-0.98	-0.37	-0.20	-0.54
5	---	---	---	---	---	---	---	---	-0.86	-0.43	-0.41	-0.76
6	---	---	---	---	---	---	---	---	-0.69	-0.44	-0.24	-0.67
7	---	---	---	---	---	---	---	---	-0.25	-0.30	-0.26	-0.52
8	---	---	---	---	---	---	---	---	-0.57	-0.38	-0.18	-0.68
9	---	---	---	---	---	---	---	---	-0.63	-0.14	-0.11	-0.54
10	---	---	---	---	---	---	---	---	-0.55	-0.12	-0.44	-0.39
11	---	---	---	---	---	---	---	---	0.24	-0.18	-0.68	-0.77
12	---	---	---	---	---	---	---	---	0.06	-0.37	-0.52	-0.66
13	---	---	---	---	---	---	---	---	0.37	-0.15	-0.23	-0.31
14	---	---	---	---	---	---	---	---	1.12	-0.64	-0.70	-0.42
15	---	---	---	---	---	---	---	---	0.61	-0.85	-0.61	-0.79
16	---	---	---	---	---	---	---	---	0.26	-0.77	-0.81	-1.01
17	---	---	---	---	---	---	---	---	0.04	-0.52	-0.90	-1.01
18	---	---	---	---	---	---	---	---	-0.17	-0.73	-0.97	-0.66
19	---	---	---	---	---	---	---	---	---	-0.63	-0.85	-0.83
20	---	---	---	---	---	---	---	---	-0.83	-0.72	-1.03	-0.80
21	---	---	---	---	---	---	---	---	-1.16	-0.81	-0.75	-0.55
22	---	---	---	---	---	---	---	---	-1.07	-0.65	-0.77	-0.54
23	---	---	---	---	---	---	---	---	-0.96	-0.19	-0.84	-0.65
24	---	---	---	---	---	---	---	---	-1.09	-0.35	-0.83	-0.41
25	---	---	---	---	---	---	---	---	-0.77	-0.70	-0.56	-0.17
26	---	---	---	---	---	---	---	---	-0.59	-0.28	-0.63	0.11
27	---	---	---	---	---	---	---	---	-0.39	-0.65	-0.65	0.14
28	---	---	---	---	---	---	---	---	0.28	-0.50	0.01	0.28
29	---	---	---	---	---	---	---	---	0.36	-0.43	0.41	0.30
30	---	---	---	---	---	---	---	---	-0.12	-0.58	0.56	0.22
31	---	---	---	---	---	---	---	---	---	-0.33	0.00	---
Mean	---	---	---	---	---	---	---	---	---	-0.43	-0.42	-0.42
Max	---	---	---	---	---	---	---	---	---	0.10	0.56	0.30
Min	---	---	---	---	---	---	---	---	---	-0.85	-1.03	-1.01

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued



01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1991 to February 2012, June to September 2013. Records for February 1990 to September 1991 are unpublished and available in files of the Geological Survey.

WATER TEMPERATURE: October 1991 to February 2012, June to September 2013. Records for February 1990 to September 1991 are unpublished and available in files of the Geological Survey.

pH: June to September 2013.

DISSOLVED OXYGEN: June to September 2013.

TURBIDITY: June to September 2013.

INSTRUMENTATION.--A continuous water-quality monitor with water temperature, specific conductance, pH, dissolved oxygen and turbidity provides 15-minute-interval readings.

REMARKS.--Temperature readings prior to Oct. 1, 2007, rounded to nearest 0.5 °C. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 12,600 $\mu\text{S}/\text{cm}$, Sept. 23, 1995; minimum, 102 $\mu\text{S}/\text{cm}$, May 30, 1996.

WATER TEMPERATURE: Prior to Oct. 1, 2007--Maximum, 29.0 °C, Aug. 12, 13, 14, 2005; minimum, 0.0 °C on many days during winter periods, except 1998, 2002.

WATER TEMPERATURE: After Oct. 1, 2007--Maximum, 28.2 °C, July 24, 27, 2010; minimum, -0.2 °C on many days during 2009 winter period.

EXTREMES FOR CURRENT YEAR.--(June to September)

SPECIFIC CONDUCTANCE: Maximum, 7,530 $\mu\text{S}/\text{cm}$, Sept. 30; minimum, 199 $\mu\text{S}/\text{cm}$, June 25, 26, but may have been lower during period of instrument malfunction.

WATER TEMPERATURE: Maximum, 27.8 °C, July 21, 24; minimum, 18.3 °C, June 21.

pH: Maximum, 8.0, Sept. 26, 27; minimum, 7.4, Sept. 4, 6, 7.

DISSOLVED OXYGEN: Maximum, 9.0 mg/L, June 21; minimum, 5.8 mg/L, July 21, 22, 23, 24.

TURBIDITY: Maximum, 190 FNU, Aug. 18, but may have been higher during period of instrument malfunction; minimum, 3.0 FNU, Sept. 30.

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	88	48	62	38	21	26	31	6.9	13
2	---	---	---	90	35	52	50	18	27	21	6.5	12
3	---	---	---	57	20	33	60	16	25	29	7.7	13
4	---	---	---	93	12	22	---	---	---	31	7.8	14
5	---	---	---	51	12	20	---	---	---	120	7.1	16
6	---	---	---	53	14	23	---	---	---	90	8.4	21
7	---	---	---	65	12	26	---	---	---	84	9.0	20
8	---	---	---	54	16	29	---	---	---	84	9.5	20
9	---	---	---	96	20	41	---	---	---	68	9.1	22
10	---	---	---	---	---	---	---	---	---	77	9.2	21
11	---	---	---	---	---	---	---	---	---	120	8.8	22
12	---	---	---	54	32	40	---	---	---	52	7.1	16
13	---	---	---	51	30	37	---	---	---	91	6.2	17
14	---	---	---	45	26	33	---	---	---	70	7.5	17
15	---	---	---	40	25	30	---	---	---	81	9.0	19
16	---	---	---	54	23	29	120	27	38	74	9.0	18
17	---	---	---	58	22	31	120	30	45	110	9.2	21
18	---	---	---	97	23	35	190	30	47	70	11	20
19	---	---	---	100	24	37	140	30	49	150	9.0	21
20	---	---	---	120	24	41	160	33	51	140	8.7	21
21	83	25	35	140	26	44	120	31	47	68	9.4	20
22	69	26	38	89	25	40	120	28	45	130	9.2	21
23	82	23	41	77	23	38	89	27	41	32	8.2	14
24	130	25	39	77	27	36	100	24	40	43	8.0	14
25	89	27	39	54	28	36	62	25	35	100	7.8	15
26	76	29	42	59	26	36	93	22	30	74	6.6	13
27	86	33	45	130	27	35	110	21	28	13	5.9	9.8
28	91	36	49	95	25	33	180	16	26	19	5.3	8.6
29	120	42	62	44	25	31	48	13	21	13	3.9	6.6
30	94	52	66	44	22	29	29	9.8	17	24	3.0	5.5
31	---	---	---	38	23	27	26	8.4	14	---	---	---
Month	---	---	---	---	---	---	---	---	---	150	3.0	16

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	203	201	202	---	---	---	4,510	1,510	2,700
2	---	---	---	212	202	207	---	---	---	5,150	2,370	3,500
3	---	---	---	230	210	223	---	---	---	5,140	2,240	3,530
4	---	---	---	241	224	235	---	---	---	4,840	2,030	3,350
5	---	---	---	247	236	243	---	---	---	4,770	1,810	3,260
6	---	---	---	248	241	247	---	---	---	5,440	2,110	3,710
7	---	---	---	248	246	247	---	---	---	5,380	2,310	3,670
8	---	---	---	249	245	247	4,410	1,690	2,980	---	---	---
9	---	---	---	248	244	246	4,110	1,260	2,640	---	---	---
10	---	---	---	---	---	---	2,660	585	1,410	---	---	---
11	---	---	---	---	---	---	1,220	417	721	---	---	---
12	---	---	---	233	227	229	829	367	561	4,390	1,710	2,870
13	---	---	---	230	226	227	906	354	531	3,050	1,420	2,360
14	---	---	---	228	224	226	483	302	378	2,860	1,120	1,740
15	---	---	---	231	223	224	---	---	---	2,420	939	1,440
16	---	---	---	320	223	233	620	260	322	2,250	819	1,230
17	---	---	---	1,270	224	438	882	260	332	2,330	766	1,140
18	---	---	---	---	---	---	935	266	374	2,120	817	1,240
19	---	---	---	---	---	---	1,120	292	467	1,860	756	1,120
20	---	---	---	---	---	---	1,060	305	486	1,740	703	1,090
21	219	203	212	---	---	---	1,230	339	590	2,150	781	1,300
22	221	203	212	---	---	---	1,270	365	636	2,110	703	1,210
23	224	220	222	---	---	---	1,060	372	580	1,260	642	871
24	222	203	213	1,270	306	552	1,120	389	620	1,690	663	916
25	204	199	201	557	274	376	1,020	423	651	---	---	---
26	201	199	200	---	---	---	932	407	595	---	---	---
27	203	200	201	---	---	---	797	389	524	2,750	773	1,450
28	206	201	202	---	---	---	1,380	417	709	4,610	1,410	2,350
29	204	201	202	---	---	---	2,230	434	950	6,220	1,860	3,220
30	206	200	201	---	---	---	2,560	709	1,270	7,530	2,780	4,410
31	---	---	---	---	---	---	3,190	860	1,700	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	22.3	21.9	22.1	26.4	26.0	26.2	25.5	25.1	25.2
2	---	---	---	23.2	22.3	22.8	26.5	25.9	26.1	25.4	25.1	25.3
3	---	---	---	24.0	22.9	23.6	26.4	25.9	26.0	25.6	25.1	25.3
4	---	---	---	25.0	23.7	24.3	---	---	---	25.4	24.9	25.2
5	---	---	---	25.9	24.3	25.0	---	---	---	25.2	24.8	25.0
6	---	---	---	26.1	24.9	25.3	---	---	---	25.2	24.5	24.8
7	---	---	---	26.4	25.3	25.5	---	---	---	25.0	24.4	24.7
8	---	---	---	26.3	25.3	25.6	25.9	25.5	25.7	24.8	24.2	24.5
9	---	---	---	26.1	25.3	25.5	25.8	25.4	25.6	24.7	24.0	24.3
10	---	---	---	---	---	---	25.8	25.3	25.5	24.6	23.9	24.2
11	---	---	---	---	---	---	25.6	25.2	25.4	24.4	23.7	24.1
12	---	---	---	25.4	25.2	25.3	25.5	25.2	25.4	24.4	23.7	24.0
13	---	---	---	25.4	25.2	25.2	25.5	25.3	25.4	24.0	23.6	23.8
14	---	---	---	25.6	25.2	25.4	25.3	24.8	25.1	23.8	23.1	23.4
15	---	---	---	25.8	25.4	25.6	25.0	24.6	---	23.5	23.0	23.2
16	---	---	---	26.3	25.7	25.9	25.0	24.6	24.8	23.4	22.7	23.0
17	---	---	---	26.6	26.0	26.2	25.1	24.6	24.8	23.0	22.3	22.6
18	---	---	---	27.3	26.2	26.5	25.0	24.6	24.8	22.9	22.1	22.4
19	---	---	---	27.6	26.6	26.9	25.0	24.6	24.8	22.7	22.0	22.2
20	---	---	---	27.7	26.9	27.2	25.3	24.6	24.9	22.5	21.9	22.1
21	19.1	18.3	18.6	27.8	27.1	27.4	25.5	24.8	25.0	22.3	21.8	22.0
22	19.7	18.6	18.9	27.6	27.3	27.4	25.4	25.0	25.1	22.2	21.2	21.7
23	20.2	18.9	19.3	27.7	27.4	27.5	25.3	25.0	25.1	---	---	---
24	20.3	19.4	19.8	27.8	27.4	27.6	25.3	24.8	25.0	---	---	---
25	20.8	19.8	20.2	27.4	26.9	27.1	25.2	24.9	25.0	---	---	---
26	20.6	20.3	20.5	27.1	26.7	26.8	25.1	24.8	24.9	---	---	---
27	21.0	20.5	20.7	26.9	26.5	26.7	25.0	24.7	24.8	21.5	20.8	21.3
28	21.4	20.9	21.1	26.9	26.3	26.5	25.3	24.7	25.0	21.4	20.8	21.1
29	21.8	21.3	21.5	26.8	26.3	26.4	25.4	24.8	25.0	21.3	20.8	21.1
30	21.9	21.6	21.7	26.5	26.2	26.3	25.4	24.8	25.2	21.2	20.7	21.0
31	---	---	---	26.5	26.1	26.3	25.3	24.9	25.2	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	7.8	7.7	---	7.8	7.7	---	7.7	7.6	---
2	---	---	---	7.8	7.7	---	7.8	7.7	---	7.7	7.5	---
3	---	---	---	7.9	7.8	---	7.8	7.7	---	7.7	7.6	---
4	---	---	---	7.9	7.8	---	---	---	---	7.7	7.4	---
5	---	---	---	7.9	7.8	---	---	---	---	7.6	7.5	---
6	---	---	---	7.8	7.7	---	---	---	---	7.6	7.4	---
7	---	---	---	7.8	7.7	---	---	---	---	7.6	7.4	---
8	---	---	---	7.8	7.7	---	---	---	---	7.6	7.5	---
9	---	---	---	7.8	7.7	---	---	---	---	7.6	7.5	---
10	---	---	---	---	---	---	---	---	---	7.6	7.5	---
11	---	---	---	---	---	---	---	---	---	7.6	7.5	---
12	---	---	---	7.8	7.7	---	---	---	---	7.6	7.5	---
13	---	---	---	7.7	7.7	---	---	---	---	7.7	7.6	---
14	---	---	---	7.7	7.7	---	---	---	---	7.7	7.6	---
15	---	---	---	7.7	7.7	---	---	---	---	7.7	7.6	---
16	---	---	---	7.7	7.7	---	7.8	7.7	---	7.8	7.6	---
17	---	---	---	7.7	7.6	---	7.8	7.6	---	7.8	7.6	---
18	---	---	---	7.7	7.6	---	7.7	7.6	---	7.8	7.7	---
19	---	---	---	7.7	7.5	---	7.7	7.6	---	7.8	7.7	---
20	---	---	---	7.6	7.5	---	7.7	7.6	---	7.8	7.7	---
21	7.7	7.6	---	7.6	7.5	---	7.7	7.6	---	7.8	7.7	---
22	7.7	7.6	---	7.6	7.5	---	7.7	7.5	---	7.8	7.7	---
23	7.7	7.6	---	7.6	7.5	---	7.6	7.5	---	7.9	7.8	---
24	---	---	---	7.7	7.6	---	7.7	7.6	---	7.9	7.7	---
25	---	---	---	7.7	7.6	---	7.7	7.6	---	7.9	7.8	---
26	7.7	7.6	---	7.8	7.6	---	7.6	7.6	---	8.0	7.8	---
27	7.7	7.6	---	7.8	7.7	---	7.7	7.6	---	8.0	7.8	---
28	7.7	7.6	---	7.8	7.7	---	7.7	7.6	---	7.9	7.7	---
29	7.7	7.7	---	7.8	7.7	---	7.7	7.6	---	7.9	7.7	---
30	7.8	7.7	---	7.8	7.7	---	7.7	7.6	---	7.9	7.7	---
31	---	---	---	7.8	7.7	---	7.7	7.6	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	8.0	7.8	---
Min	---	---	---	---	---	---	---	---	---	7.6	7.4	---

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	7.7	7.6	7.7	7.0	6.7	6.9	7.5	6.9	7.1
2	---	---	---	7.6	7.5	7.6	7.1	6.7	6.9	7.3	6.8	7.0
3	---	---	---	7.6	7.4	7.6	7.1	6.7	6.9	7.4	6.7	7.0
4	---	---	---	7.6	7.3	7.4	---	---	---	7.4	6.7	7.1
5	---	---	---	7.4	7.0	7.2	---	---	---	7.4	6.7	7.1
6	---	---	---	7.1	6.9	7.0	---	---	---	7.2	6.6	7.0
7	---	---	---	7.0	6.7	6.9	---	---	---	7.3	6.7	7.0
8	---	---	---	6.9	6.7	6.8	---	---	---	---	---	---
9	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	7.0	6.8	6.9	---	---	---	7.4	6.7	7.1
13	---	---	---	7.0	6.8	6.9	---	---	---	7.5	6.9	7.1
14	---	---	---	7.0	6.7	6.9	---	---	---	7.6	7.0	7.3
15	---	---	---	6.9	6.7	6.8	---	---	---	7.7	7.1	7.4
16	---	---	---	6.8	6.5	6.7	7.2	6.9	7.1	7.8	7.2	7.5
17	---	---	---	6.7	6.2	6.6	7.2	6.9	7.0	7.9	7.3	7.7
18	---	---	---	6.6	6.1	6.4	7.1	6.8	7.0	7.9	7.4	7.7
19	---	---	---	6.5	6.0	6.2	7.0	6.8	6.9	8.0	7.5	7.8
20	---	---	---	6.4	5.9	6.1	6.9	6.7	6.8	8.0	7.5	7.8
21	9.0	8.7	8.9	6.3	5.8	6.1	6.9	6.7	6.8	8.0	7.6	7.8
22	8.9	8.6	8.8	6.2	5.8	6.0	6.9	6.6	6.8	8.3	7.6	8.0
23	8.8	8.6	8.7	6.3	5.8	6.1	7.0	6.7	6.8	---	---	---
24	8.7	8.5	8.6	6.4	5.8	6.2	7.1	6.8	6.9	---	---	---
25	8.5	8.3	8.4	6.7	6.2	6.5	7.2	6.8	7.0	---	---	---
26	8.3	8.2	8.2	6.7	6.3	6.6	7.2	6.9	7.0	---	---	---
27	8.2	8.0	8.1	6.7	6.4	6.6	7.2	6.9	7.1	8.7	8.1	8.4
28	8.1	7.9	8.0	6.8	6.4	6.7	7.1	6.9	7.0	8.7	8.0	8.3
29	8.0	7.8	7.9	6.9	6.5	6.7	7.1	6.9	7.0	8.7	7.9	8.4
30	7.8	7.7	7.8	7.0	6.6	6.8	7.4	7.0	7.1	8.8	7.8	8.4
31	---	---	---	7.0	6.6	6.9	7.4	7.0	7.2	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---