Water-Data Report 2013

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO, NEAR MASSENA, NY

St. Lawrence Basin
Upper St. Lawrence Subbasin

LOCATION.--Lat 45°00′22″, long 74°47′42″ referenced to North American Datum of 1983, St. Lawrence County, NY, Hydrologic Unit 04150301, at Robert Moses-Robert H. Saunders power dam on Lake St. Lawrence at the International Boundary at Cornwall, Stormont County, Ontario, 2.9 mi upstream from Grass River, 5.9 mi northeast of Massena, NY, and 6.2 mi upstream from Raquette River.

DRAINAGE AREA.--298,800 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1860 to September 1935 (monthly discharges only, published in WSP 1307), October 1935 to current year, also miscellaneous measurements--2008-11. Prior to October 1970, published as "St. Lawrence River at Ogdensburg" (station 04264000).

REVISED RECORDS.--WSP 1437: 1870, 1875, 1881, 1883, 1884, 1890.

GAGE.--There is no gage. Discharge is determined from summation of discharge through the Robert Moses-Robert H. Saunders power dam, the Long Sault Dam, the Massena Diversion, the Raisin River Diversion, the Cornwall and Massena municipal water supply, and the Cornwall and the Wiley-Dondero navigation canals. U.S.-Canada coordinated discharge figures supplied by Corps of Engineers. Prior to 1956, base gage at lock 25 at Iroquois, Ont. with supplementary gages. August 1956 to June 1958, base gage at lock 24 between Iroquois and Morrisburg, Ont., and supplementary gages. Prior to August 1956, these were gages of the Canadian Hydrographic Service and from August 1956 to June 1958, were gages of the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont., near Massena, NY is considered to be the same as discharge at Ogdensburg, NY when adjusted for storage in Lake St. Lawrence.

COOPERATION.--Records of daily discharge provided by Buffalo District, U.S. Army Corps of Engineers through International St. Lawrence River Board of Control, not reviewed by the USGS.

REMARKS.--Since July 1958, flow regulated by international agreement administered by International St. Lawrence River Board of Control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943. A medium code of WSQ indicates a replicate sample.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 378,000 ft^3/s, May 20, 28, June 8, 1993; minimum daily discharge, 139,000 ft^3/s, Feb. 7, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 268,000 ft^3/s, July 13, 31, Aug. 20; minimum daily discharge, 199,000 ft^3/s, Dec. 21.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	228,000	207,000	217,000	210,000	210,000	227,000	224,000	235,000	214,000	256,000	267,000	264,000
2	225,000	205,000	215,000	210,000	213,000	227,000	224,000	235,000	213,000	256,000	267,000	264,000
3	224,000	206,000	215,000	210,000	213,000	227,000	224,000	234,000	213,000	256,000	266,000	264,000
4	223,000	204,000	215,000	210,000	213,000	227,000	224,000	234,000	213,000	255,000	265,000	264,000
5	223,000	205,000	212,000	209,000	213,000	227,000	220,000	234,000	213,000	256,000	266,000	264,000
6	223,000	205,000	209,000	210,000	213,000	227,000	207,000	234,000	214,000	261,000	266,000	264,000
7	223,000	202,000	203,000	210,000	213,000	227,000	207,000	234,000	214,000	261,000	266,000	263,000
8	223,000	207,000	203,000	210,000	214,000	227,000	207,000	234,000	220,000	261,000	266,000	263,000
9	223,000	205,000	203,000	210,000	220,000	227,000	208,000	234,000	221,000	259,000	266,000	263,000
10	224,000	200,000	203,000	210,000	214,000	226,000	207,000	234,000	221,000	262,000	264,000	264,000
11	222,000	200,000	203,000	210,000	214,000	227,000	207,000	227,000	221,000	262,000	264,000	263,000
12	230,000	200,000	202,000	210,000	215,000	227,000	208,000	227,000	221,000	262,000	264,000	264,000
13	228,000	200,000	200,000	210,000	218,000	227,000	227,000	231,000	221,000	268,000	264,000	263,000
14	222,000	200,000	203,000	210,000	221,000	227,000	227,000	232,000	221,000	267,000	264,000	261,000
15	222,000	205,000	204,000	210,000	223,000	227,000	227,000	227,000	241,000	267,000	264,000	261,000
16	222,000	205,000	206,000	210,000	223,000	228,000	227,000	227,000	241,000	267,000	264,000	262,000
17	222,000	208,000	210,000	210,000	223,000	228,000	228,000	227,000	241,000	267,000	265,000	261,000
18	222,000	208,000	204,000	210,000	223,000	228,000	228,000	224,000	241,000	267,000	265,000	261,000
19	222,000	208,000	200,000	210,000	223,000	228,000	228,000	224,000	241,000	267,000	265,000	261,000
20	215,000	208,000	200,000	210,000	224,000	229,000	242,000	223,000	241,000	265,000	268,000	260,000
21	212,000	208,000	199,000	210,000	224,000	229,000	242,000	224,000	242,000	266,000	266,000	252,000
22	214,000	208,000	200,000	210,000	226,000	228,000	242,000	224,000	251,000	266,000	265,000	252,000
23	215,000	210,000	209,000	210,000	226,000	229,000	242,000	224,000	251,000	266,000	264,000	252,000
24	215,000	213,000	210,000	210,000	226,000	229,000	242,000	224,000	251,000	266,000	261,000	252,000
25	215,000	212,000	210,000	210,000	226,000	230,000	242,000	221,000	251,000	266,000	261,000	252,000
26	212,000	217,000	210,000	210,000	227,000	229,000	242,000	218,000	251,000	266,000	261,000	252,000
27	212,000	220,000	210,000	210,000	227,000	229,000	235,000	214,000	250,000	267,000	261,000	252,000
28	212,000	222,000	211,000	210,000	227,000	229,000	235,000	214,000	251,000	267,000	261,000	248,000
29	212,000	222,000	210,000	210,000	---	229,000	236,000	214,000	256,000	267,000	261,000	248,000
30	212,000	219,000	210,000	210,000	---	225,000	235,000	214,000	256,000	267,000	261,000	248,000
31	212,000	---	210,000	210,000	---	224,000	---	214,000	---	268,000	264,000	---
Total	6,809,000	6,239,000	6,416,000	6,509,000	6,152,000	7,055,000	6,794,000	7,016,000	6,996,000	8,174,000	8,192,000	7,762,000
Mean	219,600	208,000	207,000	210,000	219,700	227,600	226,500	226,300	233,200	263,700	264,300	258,700
Max	230,000	222,000	217,000	210,000	227,000	230,000	242,000	235,000	256,000	268,000	268,000	264,000
Min	212,000	200,000	199,000	209,000	210,000	224,000	207,000	214,000	213,000	255,000	261,000	248,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	249,600	245,900	241,000	226,100	235,800	248,000	256,700	265,900	269,800	267,200	262,800	256,900
Max	323,800	338,100	327,000	298,700	293,300	335,100	325,100	353,500	353,500	350,000	330,300	326,400
(WY)	(1987)	(1987)	(1987)	(1987)	(1997)	(1998)	(1973)	(1993)	(1993)	(1973)	(1974)	(1986)
Min	182,600	176,100	174,700	168,700	153,800	179,800	179,200	176,500	188,600	200,600	200,000	194,900
(WY)	(1936)	(1936)	(1936)	(1936)	(1936)	(1965)	(1964)	(1965)	(1965)	(1964)	(1936)	(1936)

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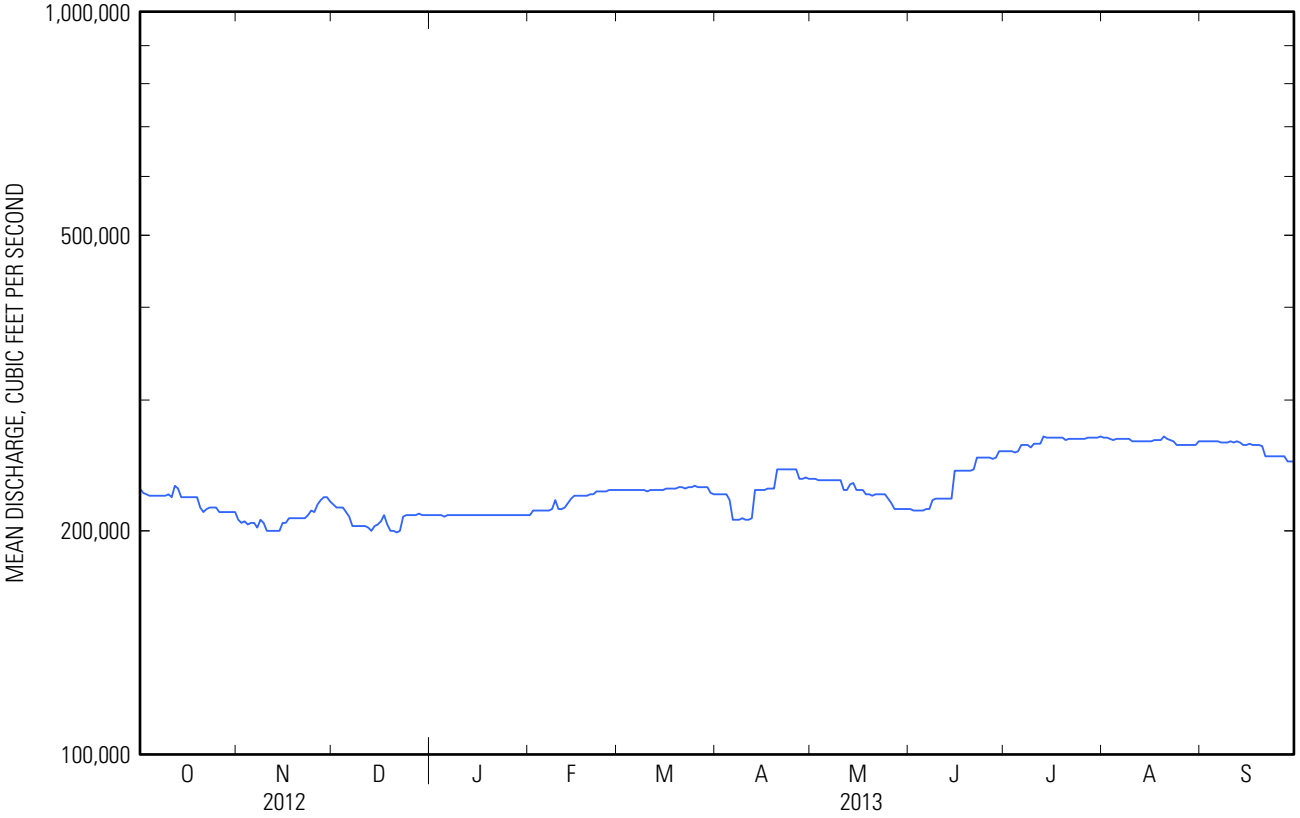
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1936 - 2013	
Annual total	88,005,000		84,114,000			
Annual mean	240,500		230,400		252,200	
Highest annual mean					309,300	1987
Lowest annual mean					191,800	1936
Highest daily mean	302,000	Mar 4	268,000	Jul 13	378,000	May 20, 1993
Lowest daily mean	199,000	Dec 21	199,000	Dec 21	139,000	Feb 7, 1936
Annual seven-day minimum	201,000	Nov 9	201,000	Nov 9	148,000	Feb 6, 1936
10 percent exceeds	280,000		264,000		298,000	
50 percent exceeds	232,000		225,000		252,000	
90 percent exceeds	208,000		208,000		209,000	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Prior to October 1970, published as "near Massena, NY".

CHEMICAL DATA: 1955(a), 1974(c), 1975-81(d), 1982-86(c), 1987(b), 1988-89(c), 1990(b), 1991(d), 1992-94(b), 1995(c), 1996(c), 2008-13(d).
MINOR ELEMENTS DATA: 1974-77(b), 1978(a), 1979(b), 1980(c), 1981-87(b), 1988-90(c), 1991(d), 1992-94(b), 1995(c), 1996(d), 2008-13(d).
RADIOCHEMICAL DATA: 1974-95(a), 1996(c).
PESTICIDE DATA: 1988-90(b), 1995(a), 1996(d), 2008-13(d).
ORGANIC DATA: OC--1974(a), 1975(b), 1977(b), 1978-81(d), 1995(a), 1996(d), 2008-13(d).
NUTRIENT DATA: 1974-75(c), 1976-81(d), 1982-86(c), 1987(b), 1988-91(c), 1992-94(b), 1995(c), 1996(d), 2008-13(d).
BIOLOGICAL DATA: Bacteria.--1974(c), 1975-81(d), 1982-86(c), 1987-94(b), 1995(c). Phytoplankton.--1974(a), 1975(c), 1976-80(b). Periphyton.--1974(a), 1975(c), 1976-80(b).
SEDIMENT DATA: 1975(d), 1976-77(c), 1978-81(d), 1982-86(c), 1987-90(b), 1991(b), 1992-95(b), 1996(d), 2008-13(d).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1986.
WATER TEMPERATURE: October 1955 to October 1958, unpublished; January 1966 to September 1986.

REMARKS.--A medium code of WSQ indicates a replicate sample.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 400 µS/cm, Aug. 7, 1978, Mar. 29, 1979; minimum daily, 250 µS/cm, Dec. 21, 1978.
WATER TEMPERATURE: Maximum daily, 24.5 °C on several days in August and September 1973 and August 1975; minimum daily, 0.0 °C on many days during winter periods, except 1972-74, 1979, 1982-85.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Medium code	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
10-24-2012	**1045**	WS	760	--	0.026	0.017	10.7	102	8.2
12-19-2012	**1040**	WS	754	1.0	.026	.017	12.6	97	7.8
01-24-2013	**1000**	WS	767	--	.035	.025	16.6	114	7.5
02-05-2013	**0830**	WS	760	--	.030	.021	13.6	94	7.8
02-21-2013	**0900**	WS	762	-14.0	.035	.027	14.3	98	7.7
03-05-2013	**0930**	WS	757	.0	.028	.016	15.3	106	8.2
03-19-2013	**0830**	WS	754	-.6	.041	.029	14.6	101	8.1
04-17-2013	**0900**	WS	768	10.0	.038	.027	13.9	104	8.0
04-23-2013	**0700**	WS	768	1.1	.037	.025	13.0	102	8.1
05-23-2013	**1015**	WS	752	20.1	.045	.032	12.5	116	8.0
06-20-2013	**0815**	WS	768	18.8	.068	.050	10.5	105	8.0
07-10-2013	**1530**	WS	752	28.7	.037	.025	9.2	100	8.0
08-22-2013	**1030**	WS	760	24.0	.031	.021	9.4	111	8.0
08-22-2013	**1031**	WSQ	--	--	.031	.020	--	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling method (82398)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
10-24-2012	**1045**	304	13.1	< 2.0	EDI	34.8	8.88	1.47	13.4
12-19-2012	**1040**	307	4.0	< 2.0	Grab smp tap dam	34.8	8.69	1.56	13.6
01-24-2013	**1000**	313	.4	< 2.0	Grab smp tap dam	34.2	8.80	1.62	13.2
02-05-2013	**0830**	307	.2	E 2.4	Grab smp tap dam	35.2	8.93	1.59	13.4
02-21-2013	**0900**	317	.1	< 2.0	Grab smp tap dam	35.0	8.96	1.62	13.1
03-05-2013	**0930**	306	.2	< 2.0	Grab smp tap dam	36.2	8.93	1.61	13.2
03-19-2013	**0830**	300	.2	< 2.0	Grab smp tap dam	33.9	7.71	1.50	12.2
04-17-2013	**0900**	302	3.8	< 2.0	Grab smp tap dam	32.9	7.74	1.58	13.8
04-23-2013	**0700**	300	5.3	< 2.0	Grab smp tap dam	32.7	7.54	1.47	13.0
05-23-2013	**1015**	300	11.4	< 2.0	EDI	33.8	7.63	1.45	12.5
06-20-2013	**0815**	296	15.8	< 2.0	Grab sample(dip)	33.4	7.83	1.48	12.7
07-10-2013	**1530**	302	18.8	< 2.0	Grab sample(dip)	34.8	8.36	1.60	14.2
08-22-2013	**1030**	306	22.0	< 2.0	Multiple verticals	33.6	8.83	1.53	13.0
08-22-2013	**1031**	--	--	< 2.0	Multiple verticals	32.9	8.67	1.58	13.4

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO, NEAR MASSENA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
10-24-2012	**1045**	84	0.13	22.5	0.10	< .03	0.711	24.3	0.22	0.18
12-19-2012	**1040**	86	.08	22.1	.11	< .03	.652	24.2	.19	.18
01-24-2013	**1000**	95	.1	22.0	.11	< 0.03	.739	24.0	.21	.20
02-05-2013	**0830**	92	.07	24.1	.12	< .03	.803	26.0	.19	.19
02-21-2013	**0900**	93	.05	22.4	.11	< .03	.848	25.0	.15	.23
03-05-2013	**0930**	91	.07	22.8	.11	< .03	.774	24.5	.26	.21
03-19-2013	**0830**	90	.07	21.6	E .07	< .03	.941	23.1	.17	.17
04-17-2013	**0900**	90	.71	22.3	.11	.03	.625	24.3	.17	.19
04-23-2013	**0700**	88	.11	22.0	.13	< .03	.646	23.7	.21	.23
05-23-2013	**1015**	92	.19	22.1	--	< .03	.643	23.0	.19	.25
06-20-2013	**0815**	89	.10	22.1	.11	< .03	.750	22.4	.40	.28
07-10-2013	**1530**	92	.19	22.9	.11	< .03	.686	23.7	.25	.25
08-22-2013	**1030**	89	.15	23.5	.12	< .03	.700	25.5	.27	.21
08-22-2013	**1031**	--	.13	23.6	.13	< .03	.707	25.5	.17	.21

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO, NEAR MASSENA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

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)	Orthophos-phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)
10-24-2012	**1045**	< .010	0.162	0.002	< .004	< .017	0.004	0.008	--
12-19-2012	**1040**	< .010	.228	.002	< .004	< .017	.004	.005	--
01-24-2013	**1000**	< .010	.307	.003	< .004	< .02	.005	.005	--
02-05-2013	**0830**	< .010	.348	.002	< .004	< .017	.004	.006	--
02-21-2013	**0900**	.011	.324	.002	< .004	< .017	.004	.004	--
03-05-2013	**0930**	.012	.310	.003	< .004	< .017	.004	.005	--
03-19-2013	**0830**	.011	.326	.002	< .004	< .017	.003	.007	--
04-17-2013	**0900**	< .010	.305	.002	< .004	.092	< .003	.006	--
04-23-2013	**0700**	< .010	.306	.002	< .004	< .017	.003	.007	--
05-23-2013	**1015**	< .010	.299	.002	< .004	.030	< .003	.008	.51
06-20-2013	**0815**	.015	.264	.003	< .004	< .017	.004	.010	.48
07-10-2013	**1530**	.019	.262	.003	< .004	.021	.004	.009	.44
08-22-2013	**1030**	.014	.173	.002	< .004	< .017	.006	.010	.31
08-22-2013	**1031**	.014	.176	.002	< .004	.018	.004	.010	.30

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO, NEAR MASSENA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Iron, water, filtered, µg/L (01046)	Lithium, water, filtered, µg/L (01130)	Strontium, water, filtered, µg/L (01080)	Vanadium, water, filtered, µg/L (01085)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
10-24-2012	**1045**	< 4.0	1.56	178	0.23	0.86	22	0.17	0.13	2.27
12-19-2012	**1040**	4.2	1.92	180	.24	.84	25	.18	.08	2.23
01-24-2013	**1000**	4.0	1.87	188	.23	.79	25	.16	.1	2.4
02-05-2013	**0830**	7.2	1.50	186	.25	.85	24	.15	.07	2.28
02-21-2013	**0900**	4.4	1.97	186	.24	.89	24	.17	.05	2.32
03-05-2013	**0930**	< 4.0	1.99	189	.24	.77	26	.17	.07	2.18
03-19-2013	**0830**	6.7	1.83	182	.23	.79	24	.17	.07	2.35
04-17-2013	**0900**	4.0	1.94	189	.18	.82	20	.14	.68	2.28
04-23-2013	**0700**	8.0	1.70	178	.18	.73	19	.14	.10	2.36
05-23-2013	**1015**	9.6	1.71	177	.29	.80	21	.14	.19	2.49
06-20-2013	**0815**	9.4	1.80	176	.23	.68	22	.12	.10	2.85
07-10-2013	**1530**	5.4	1.71	173	.22	.72	20	.12	.19	2.38
08-22-2013	**1030**	< 4.0	1.85	176	.26	.87	20	.17	.15	2.37
08-22-2013	**1031**	< 4.0	1.82	174	.26	.85	20	.16	.13	2.48

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO, NEAR MASSENA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)
10-24-2012	**1045**	--	1
12-19-2012	**1040**	--	1
01-24-2013	**1000**	--	1
02-05-2013	**0830**	--	1
02-21-2013	**0900**	--	< .5
03-05-2013	**0930**	--	< .5
03-19-2013	**0830**	100	< .5
04-17-2013	**0900**	100	< .5
04-23-2013	**0700**	100	< .5
05-23-2013	**1015**	94	2
06-20-2013	**0815**	88	2
07-10-2013	**1530**	85	3
08-22-2013	**1030**	90	2
08-22-2013	**1031**	86	2