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′43″ referenced to North American Datum of 1927, 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. Prior to October 1970 published as 04264000 "St. Lawrence River at Ogdensburg".

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.

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, 290,000 ft^3/s, on several days Apr. 29 to June 11; minimum daily discharge, 201,000 ft^3/s, Dec. 27, 28.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

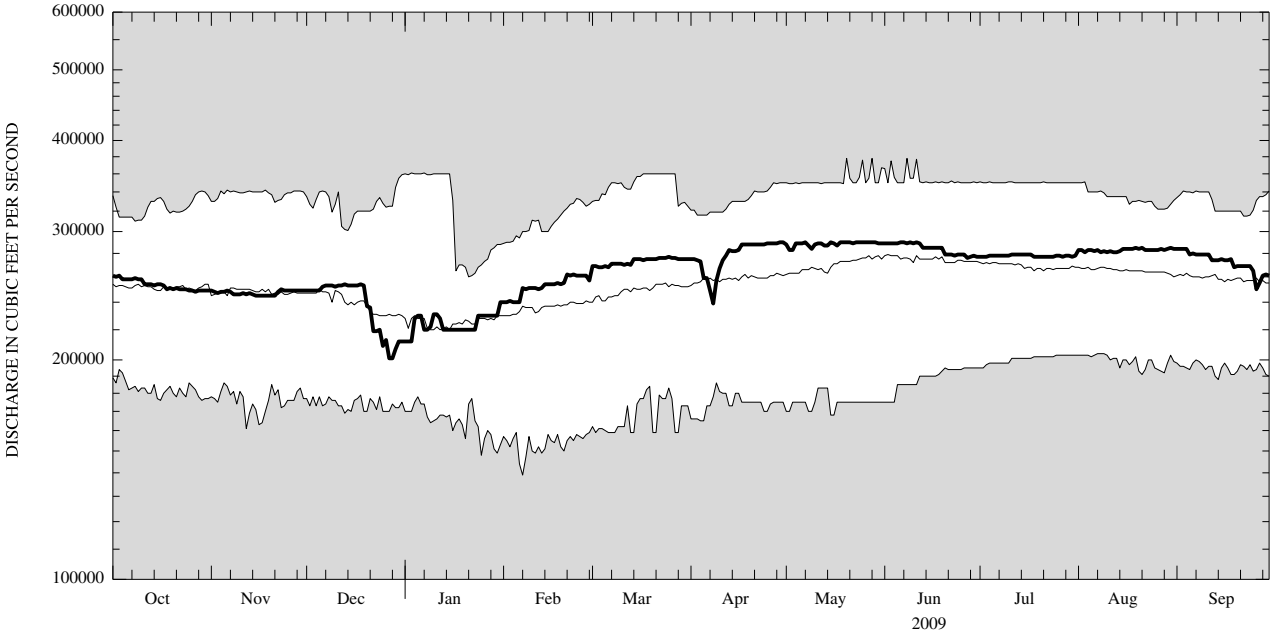
Date	Discharge, in ft^3/s
Oct 30, 2008	256,000
May 12, 2009	280,000
May 12, 2009	269,000
Aug 4, 2009	282,000
Aug 4, 2009	289,000

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

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	261,000	249,000	249,000	212,000	240,000	269,000	275,000	288,000	289,000	277,000	283,000	284,000
2	260,000	248,000	249,000	212,000	240,000	269,000	275,000	283,000	289,000	277,000	283,000	284,000
3	261,000	247,000	249,000	212,000	241,000	268,000	274,000	283,000	289,000	277,000	281,000	284,000
4	258,000	248,000	249,000	228,000	240,000	268,000	273,000	289,000	289,000	278,000	283,000	284,000
5	258,000	248,000	249,000	230,000	240,000	269,000	259,000	289,000	289,000	278,000	283,000	279,000
6	258,000	249,000	252,000	230,000	240,000	268,000	259,000	289,000	290,000	278,000	282,000	280,000
7	258,000	248,000	253,000	220,000	251,000	271,000	249,000	290,000	290,000	278,000	283,000	279,000
8	259,000	246,000	253,000	220,000	250,000	271,000	239,000	287,000	289,000	278,000	281,000	279,000
9	258,000	246,000	253,000	222,000	251,000	271,000	257,000	284,000	290,000	278,000	282,000	279,000
10	258,000	246,000	252,000	231,000	251,000	271,000	267,000	288,000	289,000	278,000	281,000	279,000
11	254,000	247,000	253,000	231,000	251,000	270,000	274,000	289,000	290,000	279,000	282,000	279,000
12	254,000	246,000	253,000	228,000	250,000	271,000	278,000	289,000	289,000	279,000	281,000	274,000
13	254,000	247,000	254,000	220,000	251,000	270,000	283,000	287,000	285,000	279,000	281,000	274,000
14	253,000	246,000	253,000	220,000	254,000	275,000	282,000	287,000	285,000	279,000	282,000	274,000
15	254,000	245,000	253,000	220,000	254,000	275,000	282,000	290,000	285,000	279,000	284,000	275,000
16	254,000	245,000	253,000	220,000	254,000	275,000	283,000	289,000	285,000	279,000	284,000	274,000
17	253,000	245,000	253,000	220,000	254,000	274,000	288,000	287,000	285,000	279,000	284,000	274,000
18	250,000	245,000	254,000	220,000	255,000	275,000	288,000	290,000	285,000	277,000	284,000	275,000
19	251,000	245,000	253,000	220,000	254,000	275,000	288,000	290,000	285,000	277,000	285,000	268,000
20	250,000	245,000	237,000	220,000	255,000	275,000	288,000	290,000	279,000	277,000	284,000	269,000
21	251,000	245,000	236,000	220,000	262,000	275,000	288,000	290,000	279,000	277,000	285,000	269,000
22	250,000	248,000	219,000	220,000	261,000	276,000	288,000	289,000	279,000	277,000	283,000	269,000
23	250,000	250,000	219,000	220,000	262,000	276,000	288,000	290,000	278,000	277,000	283,000	269,000
24	250,000	249,000	220,000	230,000	261,000	276,000	288,000	290,000	279,000	277,000	283,000	269,000
25	249,000	249,000	209,000	230,000	261,000	277,000	289,000	290,000	279,000	278,000	283,000	265,000
26	249,000	249,000	213,000	230,000	261,000	276,000	289,000	290,000	279,000	278,000	283,000	250,000
27	248,000	249,000	201,000	230,000	261,000	276,000	289,000	290,000	276,000	277,000	284,000	255,000
28	249,000	249,000	201,000	230,000	257,000	275,000	289,000	290,000	277,000	278,000	283,000	261,000
29	249,000	249,000	207,000	230,000	---	275,000	290,000	290,000	278,000	278,000	284,000	262,000
30	249,000	249,000	212,000	230,000	---	275,000	290,000	289,000	277,000	277,000	285,000	261,000
31	249,000	---	212,000	240,000	---	275,000	---	289,000	---	278,000	284,000	---
Total	7,859,000	7,417,000	7,373,000	6,946,000	7,062,000	8,462,000	8,349,000	8,945,000	8,527,000	8,613,000	8,773,000	8,177,000
Mean	253,500	247,200	237,800	224,100	252,200	273,000	278,300	288,500	284,200	277,800	283,000	272,600
Max	261,000	250,000	254,000	240,000	262,000	277,000	290,000	290,000	290,000	279,000	285,000	284,000
Min	248,000	245,000	201,000	212,000	240,000	268,000	239,000	283,000	276,000	277,000	281,000	250,000

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



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.----Water year 1955, January 1966 to September 1996, April 2008 to current year. 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), 2008-09(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), 2008-09(d).

RADIOCHEMICAL DATA: 1974-95(a), 1996(c).

PESTICIDE DATA: 1988-90(b), 1995(a), 1996(d), 2008-09(d).

ORGANIC DATA: OC--1974(a), 1975(b), 1977(b), 1978-81(d), 1995(a), 1996(d), 2008-09(d).

NUTRIENT DATA: 1974-75(c), 1976-81(d), 1982-86(c), 1987(b), 1988-91(c), 1992-94(b), 1995(c), 1996(d), 2008-09(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), 2008-09(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.--An * 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.

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	Instantaneous discharge, ft³/s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Sampling method, code (82398)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)
Oct											
30...	0700	755	--	--	10.4	94	7.8	301	10.6	Grab smp tap dam	87
30...	0900	762	3.0	256,000	10.8	97	7.9	303	10.4	Composite multi pnt	79
Dec											
16...	0900	761	-7.0	--	13.6	100	7.8	298	2.5	Grab smp tap dam	84
Jan											
06...	0800	757	--	--	14.0	--	7.6	299	<.1	Grab smp tap dam	87
21...	0830	754	--	--	13.8	96	7.6	303	.0	Grab smp tap dam	90
Feb											
04...	0830	755	--	--	16.0	111	7.7	299	.0	Grab smp tap dam	89
18...	0800	754	--	--	16.5	115	8.0	317	.2	Grab smp tap dam	89
Mar											
24...	0730	772	--	--	16.1	112	7.5	309	1.1	Grab smp tap dam	93
Apr											
07...	0700	736	--	--	9.4	73	7.7	308	3.2	Grab smp tap dam	89
07...*	0710	--	--	--	--	--	--	--	--	Grab smp tap dam	--
May											
12...	1000	765	19.5	280,000	12.1	105	7.8	296	9.2	Composite multi pnt	85
Jun											
09...	0900	752	15.0	--	10.5	102	8.0	296	13.4	Grab smp tap dam	83
Aug											
04...	0840	--	27.0	282,000	8.9	--	8.1	254	21.7	Multiple verticals	84

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Phos-phorus, water, unfltrd mg/L as P (00665)	1-Naph-thol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Di-ethyl-aniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro -2',6'-diethyl acet-anilide wat flt µg/L (61618)	ClAT, water, fltrd, µg/L (04040)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	E.1	21.6	24.7	E.020	.24	.004	E.005	E.01	.009	<.04	<.006	<.010	E.055
Dec													
16...	E.2	21.3	25.2	<.020	.31	.002	<.008	E.02	E.007	<.04	<.006	<.010	E.052
Jan													
06...	<.2	20.9	24.5	E.011	.32	.003	E.005	E.01	E.008	<.04	<.006	<.010	E.054
21...	<.2	21.8	25.2	<.020	.35	.003	<.008	<.02	E.006	<.04	<.006	<.010	E.057
Feb													
04...	<.2	21.3	24.9	E.011	.37	E.002	E.006	<.02	.009	<.04	<.006	<.010	E.051
18...	<.2	21.8	25.1	E.015	.39	.002	E.005	<.02	.008	<.04	<.006	<.010	E.056
Mar													
24...	<.2	21.4	24.5	E.016	.38	.003	<.008	<.02	E.005	<.04	<.006	<.010	E.053
Apr													
07...	<.2	20.9	24.0	E.011	.37	.003	<.008	E.01	E.005	<.04	<.006	<.010	E.055
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	E.1	20.7	23.4	E.014	.33	.002	<.008	E.01	E.006	<.04	<.006	<.010	E.069
Jun													
09...	<.2	21.2	24.3	<.020	.31	.003	<.008	E.02	E.006	<.04	<.006	<.010	E.065
Aug													
04...	E.1	21.3	25.1	.021	.22	.003	E.005	<.02	.011	<.04	<.006	<.010	E.053

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	2-Ethyl-6-methyl-aniline wat flt µg/L (61620)	3,4-Di-chloro-aniline water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.065	<.04	<.120	<.014	<.200	<.060
Dec													
16...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.069	<.04	<.120	<.014	<.200	<.060
Jan													
06...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.071	<.04	<.120	<.014	<.200	<.060
21...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.074	<.04	<.120	<.014	<.200	<.060
Feb													
04...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.061	<.04	<.120	<.014	<.200	<.060
18...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.074	<.04	<.120	<.014	<.200	<.060
Mar													
24...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.077	<.04	<.120	<.014	<.200	<.060
Apr													
07...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.068	<.04	<.120	<.014	<.200	<.060
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.073	<.04	<.120	<.014	<.200	<.060
Jun													
09...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.066	<.04	<.120	<.014	<.200	<.060
Aug													
04...	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.080	<.04	<.120	<.014	<.200	<.060

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)	cis-Permethrin water fltrd 0.7µ GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulfinylfipronil amide, wat flt µg/L (62169)	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dichlorvos, water, fltrd, µg/L (38775)	Dicrotophos, water, fltrd, µg/L (38454)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.05	<.010	<.014	<.006	E.013	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Dec													
16...	<.05	<.010	<.014	<.006	E.013	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Jan													
06...	<.05	<.010	<.014	<.006	E.017	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
21...	<.05	<.010	<.014	<.006	E.011	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Feb													
04...	<.05	<.010	<.014	<.006	E.011	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
18...	<.05	<.010	<.014	<.006	E.015	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Mar													
24...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Apr													
07...	<.05	<.010	<.014	<.006	E.010	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	<.05	<.010	<.014	<.006	E.014	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Jun													
09...	<.05	<.010	<.014	<.006	E.012	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08
Aug													
04...	<.05	<.010	<.014	<.006	E.010	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 5 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7µ GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7µ GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethoprop, water, fltrd 0.7µ GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)	Fipronil sulfide water, fltrd, µg/L (62167)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Dec													
16...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Jan													
06...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
21...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Feb													
04...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
18...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Mar													
24...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Apr													
07...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Jun													
09...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013
Aug													
04...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 6 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)	Metalaxyl, water, fltrd, µg/L (61596)	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7µ GF µg/L (82667)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Dec													
16...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Jan													
06...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
21...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Feb													
04...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
18...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Mar													
24...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Apr													
07...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Jun													
09...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008
Aug													
04...	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 7 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propanil, water, fltrd 0.7µ GF µg/L (82679)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	E.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014
Dec													
16...	.015	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014
Jan													
06...	.016	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014
21...	.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014
Feb													
04...	E.013	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014
18...	.016	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014
Mar													
24...	.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014
Apr													
07...	E.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
12...	.017	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014
Jun													
09...	.018	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014
Aug													
04...	E.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	M	<.006	<.014

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 8 of 8
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Propargite, water, fltrd 0.7µ GF µg/L (82685)	Propyzamide, water, fltrd 0.7µ GF µg/L (82676)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7µ GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7µ GF µg/L (82661)	Suspended sediment concentration mg/L (80154)
Oct													
30...	--	--	--	--	--	--	--	--	--	--	--	--	2
30...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	3
Dec													
16...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	2
Jan													
06...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	<.5
21...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	1
Feb													
04...	<.02	<.004	.011	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	1
18...	<.02	<.004	.014	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	1
Mar													
24...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	<.5
Apr													
07...	<.02	<.004	.012	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	1
07...	--	--	--	--	--	--	--	--	--	--	--	--	1
May													
12...	<.02	<.004	.016	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	2
Jun													
09...	<.02	<.004	.013	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	1
Aug													
04...	<.02	<.004	.011	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	3