



July 29, 2016

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Sodus Bay Water Quality Report:

ESF ID #	Lake Name	Lake Code/site	Collection Date	Secchi Depth (m)	Temp (°C)	FluoroProbe Total CHL ¹ (µg/L)	Green chl-a (µg/L)	Diatom/H chl-a	BGA chl-a (µg/L)	% BGA
16-646	Sodus Bay	Oak Park Marina	7/20/2016	1.3	25.35	10.7	3.9	0.0	5.4	50%
16-647	Sodus Bay	Kaitlynn Marina	7/20/2016	1.6	23.92	6.2	3.2	1.8	0.0	0%
16-648	Sodus Bay	Coast Guard Station	7/20/2016	2.1	24.23	6.2	3.1	1.3	0.0	0%
16-706	Sodus Bay	Kaitlynn Bubbler 1L	7/20/2016	N/A	23.72	4.8	3.2	0.0	0.5	10%
16-707	Sodus Bay	Oak Park Marina 1L	7/20/2016	N/A	N/A	47.1	18.9	0.0	16.3	35%

Visual Exams: Oak Park: Microcystis, Anabaena, various greens and diatoms. Kaitlynn: Anabaena, Microcystis, diatoms. Coast Guard: Anabaena, Microcystis, greens, diatoms.

Sodus Bay Toxicity Report:

ESF ID #	Lake Name	Lake Code/site	Collection Date	Flag (BGA)	Sample Type	Microcystin toxin analysis		Other Toxins (ug/L)	
						Concentration (µg/L)(n)	Status ²	ATX/CYL	PST
16-646	Sodus Bay	Oak Park Marina	7/20/2016		F	< 0.1 (1)	Not Detected	-	-
16-647	Sodus Bay	Katlynn Marina	7/20/2016		F	< 0.1 (1)	Not Detected	-	-
16-648	Sodus Bay	Coast Guard Station	7/20/2016		F	< 0.1 (1)	Not Detected	-	-
16-706	Sodus Bay	Kaitlynn Bubbler 1L	7/20/2016		W	<0.1 (1)	Not Detected	-	-
16-707	Sodus Bay	Oak Park Marina 1L	7/20/2016		W	0.19 (1)	Minimal Toxicity	-	-

Comments: **16-707: Taken from bloom near parking area.**

¹ DEC guideline values for chlorophyll are anything greater than 20-30 ug/L with a high percentage of BGA chlorophyll are cause for concern.

² Guidelines for interpretation of the results based on the presence or absence of known cyanobacteria toxins. In cases where no toxin was detected, the status was estimated from the detection limit. Blue-green algae may pose a risk from compounds other than the measured toxins and therefore all blooms should be avoided.

0.0-0.3 µg/L	Little to no presence of blue-green algal toxins: Minimal Toxicity. No detected toxin is shown with the "<" and the detection limit.
0.3-1.6 µg/L	Toxin detected but below the US EPA 10-day drinking water guidelines for adults, Exceeds the guideline values for drinking water for Children: Low Toxicity
1.6 – 20 µg/L	Toxin levels are above the EPA drinking water guidelines but generally below the limits for recreational contact: Moderate Toxicity
20-100 µg/L	Toxin levels are above suggested values for recreational contact: High Toxicity
>100 µg/L	Toxin levels are at levels where animal fatalities have been observed: Extreme Toxicity. Users should avoid contact with the blooms.



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ESF ID #	Lake Name	Lake Code/site	Collection Date	Secchi Depth (m)	Temp (°C)	FluoroProbe Total CHL ³ (µg/L)	Green chl-a (µg/L)	Diatom/H chl-a	BGA chl-a (µg/L)	% BGA
16-772	Sodus Bay	Oak Park Marina	7/27/2016	1.25	26.14	15.5	4.9	0.0	7.8	51%
16-773	Sodus Bay	Kaitlynn Marina	7/27/2016	1.85	25.41	3.9	2.1	0.0	0.9	23%
16-774	Sodus Bay	Coast Guard Station	7/27/2016	1.5	26.38	5.3	3.1	0.0	1.0	19%

Visual Exams: Oak Park: Anabaena and Microcystis. Kaitlynn: Anabaena and Microcystis. Coast Guard: Anabaena and Microcystis

Sodus Bay Toxicity Report:

ESF ID #	Lake Name	Lake Code/site	Collection Date	Flag (BGA)	Sample Type	Microcystin toxin analysis Concentration (µg/L)(n) Status ⁴	Other Toxins (ug/L) ATX/CYL	PST
16-772	Sodus Bay	Oak Park Marina	7/27/2016			In progress	-	-
16-773	Sodus Bay	Kaitlynn Marina	7/27/2016			< 0.1 (1) Minimal Toxicity	-	-
16-774	Sodus Bay	Coast Guard Station	7/27/2016			< 0.1 (1) Minimal Toxicity	-	-

Comments:

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>100 µg/L	Toxin levels are at levels where animal fatalities have been observed: Extreme Toxicity. Users should avoid contact with the blooms.