



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC45396	Pokagon SP - Main Beach	6/16/2025	6/19/2025	< 0.30
AC45397	Pokagon SP - Potawatomi Inn Beach	6/16/2025	6/19/2025	< 0.30
AC45398	Chain O'Lakes SP - Sand Lake Beach	6/16/2025	6/19/2025	0.44
AC45399	Ouabache SP - Kunkel Lake Beach	6/16/2025	6/19/2025	< 0.30
AC45400	Potato Creek SP - Worster Lake Beach	6/17/2025	6/19/2025	< 0.30
AC45401	Mississinewa Lake - Miami SRA Beach	6/17/2025	6/19/2025	< 0.30
AC45402	Salamonie Lake - Lost Bridge West SRA Beach	6/17/2025	6/19/2025	< 0.30
AC45403	Summit Lake SP - Summit Lake Beach	6/17/2025	6/19/2025	< 0.30
AC45404	Salamonie Lake - Lost Bridge West SRA Beach (Field Duplicate)	6/17/2025	6/19/2025	< 0.30
AC45405	Field Blank	6/17/2025	6/19/2025	< 0.30
AC45406	Lincoln SP - Lake Lincoln Beach	6/16/2025	6/19/2025	< 0.30
AC45407	Ferdinand State Forest - Ferdinand Lake Beach	6/16/2025	6/19/2025	< 0.30
AC45408	Patoka Lake - Newton Stewart SRA	6/16/2025	6/19/2025	< 0.30

Test Information

Request: 6/19/2025 11:58:50 AM
Date: 6/19/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Referen
Std1	Microcystins ADDA	1.029 Abs	0.078 ng/mL	R^2=0.99899		0.000
Std1	Microcystins ADDA	1.126 Abs [1.0775] {6.4 CV}	< 0.000 ng/mL [0.039]	[R^2=0.99899]		0.000
Std2	Microcystins ADDA	0.980 Abs	0.154 ng/mL	R^2=0.99899		0.150
Std2	Microcystins ADDA	1.014 Abs [0.9970] {2.4 CV}	0.100 ng/mL [0.127] {	R^2=0.99899 [R^2=0.		0.150
Std3	Microcystins ADDA	0.833 Abs	0.433 ng/mL	R^2=0.99899		0.400
Std3	Microcystins ADDA	0.833 Abs [0.8330] {0.0 CV}	0.433 ng/mL [0.433] {	R^2=0.99899 [R^2=0.		0.400
Std4	Microcystins ADDA	0.654 Abs	0.952 ng/mL	R^2=0.99899		1.000
Std4	Microcystins ADDA	0.636 Abs [0.6450] {2.0 CV}	1.021 ng/mL [0.987] {	R^2=0.99899 [R^2=0.		1.000
Std5	Microcystins ADDA	0.477 Abs	1.895 ng/mL	R^2=0.99899		2.000
Std5	Microcystins ADDA	0.457 Abs [0.4670] {3.0 CV}	2.055 ng/mL [1.975] {	R^2=0.99899 [R^2=0.		2.000
Std6	Microcystins ADDA	0.256 Abs	> 5.000 ng/mL			5.000
Std6	Microcystins ADDA	0.284 Abs [0.2700] {7.3 CV}	4.656 ng/mL [4.656]	R^2=0.99899 [R^2=0.		5.000
Normal Control	Microcystins ADDA	0.918 Abs	0.261 ng/mL			
Normal Control	Microcystins ADDA	0.902 Abs [0.9100] {1.2 CV}	0.291 ng/mL [0.276] {			
LRB 1	Microcystins ADDA	1.229 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
LRB 1	Microcystins ADDA	1.155 Abs [1.1920] {4.4 CV}	< 0.000 ng/mL [0.000]	Out(LR) [Low]		0.150 -
LFB 1	Microcystins ADDA	0.699 Abs	0.795 ng/mL			0.150 -
LFB 1	Microcystins ADDA	0.901 Abs [0.8000] {17.9 CV}	0.293 ng/mL [0.544] {			0.150 -
AC45396	Microcystins ADDA	1.037 Abs	0.066 ng/mL	Low		0.150 -
AC45396	Microcystins ADDA	1.139 Abs [1.0880] {6.6 CV}	< 0.000 ng/mL [0.033]	Out(LR) [Low]		0.150 -
AC45397	Microcystins ADDA	1.100 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
AC45397	Microcystins ADDA	1.078 Abs [1.0890] {1.4 CV}	0.007 ng/mL [0.004] {	Low [Low]		0.150 -
AC45398	Microcystins ADDA	0.831 Abs	0.438 ng/mL			0.150 -
AC45398	Microcystins ADDA	0.830 Abs [0.8305] {0.1 CV}	0.440 ng/mL [0.439] {			0.150 -
AC45398MS	Microcystins ADDA	0.530 Abs	1.538 ng/mL			0.150 -
AC45398MS	Microcystins ADDA	0.553 Abs [0.5415] {3.0 CV}	1.407 ng/mL [1.473] {			0.150 -
AC45398MSD	Microcystins ADDA	0.518 Abs	1.612 ng/mL			0.150 -
AC45398MSD	Microcystins ADDA	0.684 Abs [0.6010] {19.5 CV}	0.844 ng/mL [1.228] {			0.150 -
AC45399	Microcystins ADDA	1.153 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
AC45399	Microcystins ADDA	1.103 Abs [1.1280] {3.1 CV}	< 0.000 ng/mL [0.000]	Out(LR) [Low]		0.150 -
AC45400	Microcystins ADDA	1.058 Abs	0.035 ng/mL	Low		0.150 -
AC45400	Microcystins ADDA	1.044 Abs [1.0510] {0.9 CV}	0.056 ng/mL [0.046] {	Low [Low]		0.150 -
AC45401	Microcystins ADDA	0.962 Abs	0.183 ng/mL			0.150 -
AC45401	Microcystins ADDA	0.939 Abs [0.9505] {1.7 CV}	0.223 ng/mL [0.203] {			0.150 -
AC45402	Microcystins ADDA	1.061 Abs	0.031 ng/mL	Low		0.150 -
AC45402	Microcystins ADDA	1.108 Abs [1.0845] {3.1 CV}	< 0.000 ng/mL [0.016]	Out(LR) [Low]		0.150 -
AC45403	Microcystins ADDA	1.028 Abs	0.079 ng/mL	Low		0.150 -
AC45403	Microcystins ADDA	1.092 Abs [1.0600] {4.3 CV}	< 0.000 ng/mL [0.040]	Out(LR) [Low]		0.150 -
AC45404	Microcystins ADDA	1.050 Abs	0.047 ng/mL	Low		0.150 -
AC45404	Microcystins ADDA	1.082 Abs [1.0660] {2.1 CV}	0.001 ng/mL [0.024] {	Low [Low]		0.150 -
AC45405	Microcystins ADDA	1.115 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
AC45405	Microcystins ADDA	1.125 Abs [1.1200] {0.6 CV}	< 0.000 ng/mL [0.000]	Out(LR) [Low]		0.150 -
AC45406	Microcystins ADDA	1.005 Abs	0.114 ng/mL	Low		0.150 -
AC45406	Microcystins ADDA	1.005 Abs [1.0050] {0.0 CV}	0.114 ng/mL [0.114] {	Low [Low]		0.150 -
AC45407	Microcystins ADDA	1.100 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
AC45407	Microcystins ADDA	1.027 Abs [1.0635] {4.9 CV}	0.081 ng/mL [0.041] {	Low [Low]		0.150 -
AC45408	Microcystins ADDA	1.130 Abs	< 0.000 ng/mL	Out(LR)		0.150 -
AC45408	Microcystins ADDA	1.119 Abs [1.1245] {0.7 CV}	< 0.000 ng/mL [0.000]	Out(LR) [Low]		0.150 -
LFB 2	Microcystins ADDA	0.722 Abs	0.722 ng/mL			0.150 -
LFB 2	Microcystins ADDA	0.746 Abs [0.7340] {2.3 CV}	0.652 ng/mL [0.687] {			0.150 -
LRB 2	Microcystins ADDA	0.993 Abs	0.133 ng/mL	Low		0.150 -
LRB 2	Microcystins ADDA	1.068 Abs [1.0305] {5.1 CV}	0.021 ng/mL [0.077] {	Low [Low]		0.150 -

David Jordan

David Jordan 6/19/2025

Assay Information

Assay Name: Microcystins ADDA

Normal: 0.150 - 5.000

of decimals: 3

Assay Substances:

Controls:

Normal Control

Standards:

Std1, Concentration = 0.000, Minimum number to use: 2

Std2, Concentration = 0.150, Minimum number to use: 2

Std3, Concentration = 0.400, Minimum number to use: 2

Std4, Concentration = 1.000, Minimum number to use: 2

Std5, Concentration = 2.000, Minimum number to use: 2

Std6, Concentration = 5.000, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

Assay Mode: 4-Parameter Logistic Weight by:None

Units: ng/mL

Assay Description:

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Note	Position
6/19/2025 11:58:50 AM					
Std1	1.029 Abs	0.078 ng/mL	R^2=0.99899		A01
Std1	1.126 Abs [1.0775] {6.4	< 0.000 ng/mL [0.039] {	[R^2=0.99899]		B01
Std2	0.980 Abs	0.154 ng/mL	R^2=0.99899		C01
Std2	1.014 Abs [0.9970] {2.4	0.100 ng/mL [0.127] {30	R^2=0.99899 [R^2=0.99		D01
Std3	0.833 Abs	0.433 ng/mL	R^2=0.99899		E01
Std3	0.833 Abs [0.8330] {0.0	0.433 ng/mL [0.433] {0.0	R^2=0.99899 [R^2=0.99		F01
Std4	0.654 Abs	0.952 ng/mL	R^2=0.99899		G01
Std4	0.636 Abs [0.6450] {2.0	1.021 ng/mL [0.987] {4.9	R^2=0.99899 [R^2=0.99		H01
Std5	0.477 Abs	1.895 ng/mL	R^2=0.99899		A02
Std5	0.457 Abs [0.4670] {3.0	2.055 ng/mL [1.975] {5.7	R^2=0.99899 [R^2=0.99		B02
Std6	0.256 Abs	> 5.000 ng/mL			C02
Std6	0.284 Abs [0.2700] {7.3	4.656 ng/mL [4.656]	R^2=0.99899 [R^2=0.99		D02
+++++	+++++	+++++	+++++	+++++	+++++
6/19/2025 11:58:50 AM					
Normal Control	0.902 Abs	0.291 ng/mL			F02
Normal Control	0.918 Abs [0.9100] {1.2	0.261 ng/mL [0.276] {7.7			E02
*****	*****	*****	*****	*****	*****
Statistic					
Std1 [MEAN]	1.078				
Std1 [SD]	0.069				
Std1 [%CV]	6.37				
Std2 [MEAN]	0.997	0.127			
Std2 [SD]	0.024	0.038			
Std2 [%CV]	2.41	30.07			
Std2 [%DIFF]		-15.33			
Std3 [MEAN]	0.833	0.433			
Std3 [SD]	0.000	0.000			
Std3 [%CV]	0.00	0.00			
Std3 [%DIFF]		8.25			
Std4 [MEAN]	0.645	0.987			
Std4 [SD]	0.013	0.049			
Std4 [%CV]	1.97	4.95			
Std4 [%DIFF]		-1.30			
Std5 [MEAN]	0.467	1.975			
Std5 [SD]	0.014	0.113			
Std5 [%CV]	3.03	5.73			
Std5 [%DIFF]		-1.25			
Std6 [MEAN]	0.270				
Std6 [SD]	0.020				
Std6 [%CV]	7.33				
Std6 [%DIFF]		-100.00			

Name	Absorbance	Concentration	Interpretation	Note	Position
Normal Control [MEAN]	0.910	0.276			
Normal Control [SD]	0.011	0.021			
Normal Control [%CV]	1.24	7.69			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.0826
B = 1.0276
C = 1.2819
D = 0.071812
R2 coef = 0.99899

