



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33965	Field Blank	8/14/2018	8/15/2018	< 0.300
AB33960	Potawatomi Inn's Beach	8/14/2018	8/15/2018	0.3349
AB33961	Pokagon S P	8/14/2018	8/15/2018	< 0.300
AB33962	Chain O'Lakes S P	8/14/2018	8/15/2018	< 0.300
AB33963	Kunkel Beach @ Quabache S P	8/14/2018	8/15/2018	< 0.300
AB33964	Chain O'Lakes (Field Duplicate)	8/14/2018	8/15/2018	< 0.300
AB33966	Lost Bridge West S R A	8/13/2018	8/15/2018	< 0.300
AB33967	Potato Creek S P	8/13/2018	8/15/2018	< 0.300
AB33968	Mississinewa Lake Miami S R A	8/13/2018	8/15/2018	< 0.300
AB33969	Dog Park Lake	8/14/2018	8/15/2018	< 0.300
AB33963LD	Kunkel Beach (Lab Duplicate)	8/14/2018	8/15/2018	< 0.300
20180815LB	Lab Blank	8/14/2018	8/15/2018	< 0.300



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/15/2018 7:39:24 PM						
Std1	Microcystins ADDA	2.051 Abs	0.0363 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.209 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.997 Abs	0.0706 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.793 Abs	0.2463 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.567 Abs	0.5369 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.728 Abs	0.3183 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.208 Abs	1.3312 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.511 Abs	0.6287 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.975 Abs	2.2669 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.040 Abs	1.9539 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.660 Abs	4.9011 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.656 Abs	4.9544 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.383 Abs	0.7432 ng/mL			E02
Normal Control	Microcystins ADDA	1.374 Abs	0.7591 ng/mL			F02
AB33965	Microcystins ADDA	2.146 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB33965	Microcystins ADDA	2.155 Abs [2.1505] {0.3 CV}	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H02
AB33960	Microcystins ADDA	1.636 Abs	0.3889 ng/mL		0.1500 - 5.0000	A03
AB33960	Microcystins ADDA	1.737 Abs [1.6865] {4.2 CV}	0.2850 ng/mL [0.3349] {21.8 C		0.1500 - 5.0000	B03
AB33961	Microcystins ADDA	1.800 Abs	0.2280 ng/mL		0.1500 - 5.0000	C03
AB33961	Microcystins ADDA	1.743 Abs [1.7715] {2.3 CV}	0.2794 ng/mL [0.2531] {14.3 C		0.1500 - 5.0000	D03
AB33962	Microcystins ADDA	1.822 Abs	0.2093 ng/mL		0.1500 - 5.0000	E03
AB33962	Microcystins ADDA	1.844 Abs [1.8330] {0.8 CV}	0.1912 ng/mL [0.2001] {6.4 CV}		0.1500 - 5.0000	F03
AB33963	Microcystins ADDA	1.961 Abs	0.1038 ng/mL	LOW	0.1500 - 5.0000	G03
AB33963	Microcystins ADDA	2.063 Abs [2.0120] {3.6 CV}	0.0386 ng/mL [0.0700] {64.8 C	Low [Low]	0.1500 - 5.0000	H03
AB33964	Microcystins ADDA	1.782 Abs	0.2437 ng/mL		0.1500 - 5.0000	A04
AB33964	Microcystins ADDA	1.740 Abs [1.7610] {1.7 CV}	0.2822 ng/mL [0.2627] {10.4 C		0.1500 - 5.0000	B04
AB33966	Microcystins ADDA	1.886 Abs	0.1581 ng/mL		0.1500 - 5.0000	C04
AB33966	Microcystins ADDA	1.792 Abs [1.8390] {3.6 CV}	0.2349 ng/mL [0.1952] {27.6 C		0.1500 - 5.0000	D04
AB33967	Microcystins ADDA	1.742 Abs	0.2803 ng/mL		0.1500 - 5.0000	E04
AB33967	Microcystins ADDA	1.940 Abs [1.8410] {7.6 CV}	0.1185 ng/mL [0.1936] {57.4 C	LOW	0.1500 - 5.0000	F04
AB33968	Microcystins ADDA	1.785 Abs	0.2411 ng/mL		0.1500 - 5.0000	G04
AB33968	Microcystins ADDA	2.049 Abs [1.9170] {9.7 CV}	0.0470 ng/mL [0.1350] {95.3 C	Low [Low]	0.1500 - 5.0000	H04
AB33969	Microcystins ADDA	1.912 Abs	0.1387 ng/mL	LOW	0.1500 - 5.0000	A05
AB33969	Microcystins ADDA	1.846 Abs [1.8790] {2.5 CV}	0.1895 ng/mL [0.1635] {21.9 C		0.1500 - 5.0000	B05
AB33963LD	Microcystins ADDA	1.729 Abs	0.2927 ng/mL		0.1500 - 5.0000	C05
AB33963LD	Microcystins ADDA	2.065 Abs [1.8970] {12.5 CV}	0.0374 ng/mL [0.1498] {109.4 C	Low [Low]	0.1500 - 5.0000	D05
20180815LB	Microcystins ADDA	1.963 Abs	0.1025 ng/mL	LOW	0.1500 - 5.0000	E05
20180815LB	Microcystins ADDA	1.961 Abs [1.9620] {0.1 CV}	0.1038 ng/mL [0.1031] {0.9 CV}	Low [Low]	0.1500 - 5.0000	F05

The data in this report is preliminary without a quality control report. This data is not warranted for accuracy or other purposes.

David Jordan

Laboratory Analyst Signature

8/15/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA

Assay Mode: 4-Parameter Logistic Weight by:None

Normal: 0.1500 - 5.0000

Units: ng/mL

of decimals: 4

Assay Description:

Controls:

Normal Control

Standards:

Std1, Concentration = 0.0000, Minimum number to use: 2

Std2, Concentration = 0.1500, Minimum number to use: 2

Std3, Concentration = 0.4000, Minimum number to use: 2

Std4, Concentration = 1.0000, Minimum number to use: 2

Std5, Concentration = 2.0000, Minimum number to use: 2

Std6, Concentration = 5.0000, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/15/2018 7:39:24 PM			
Std1	2.051 Abs	0.0458 ng/mL	A01
Std1	2.209 Abs	< 0.0000 ng/mL	B01
Std2	1.997 Abs	0.0797 ng/mL	C01
Std2	1.793 Abs	0.2341 ng/mL	D01
Std3	1.567 Abs	0.4703 ng/mL	E01
Std3	1.728 Abs	0.2937 ng/mL	F01
Std4	1.208 Abs	1.1161 ng/mL	G01
Std5	0.975 Abs	1.9515 ng/mL	A02
Std5	1.040 Abs	1.6597 ng/mL	B02
Std6	0.660 Abs	> 5.0000 ng/mL	C02
Std6	0.656 Abs	> 5.0000 ng/mL	D02
8/15/2018 7:39:24 PM			
Normal Control	1.374 Abs	0.7591 ng/mL	F02
Normal Control	1.383 Abs	0.7432 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.130	0.112	5.25				
Std2	1.895	0.144	7.61	0.157	0.109	69.58	4.67
Std3	1.648	0.114	6.91	0.382	0.125	32.69	-4.50
Std4	1.208			1.116			11.60
Std5	1.007	0.046	4.56	1.806	0.206	11.43	-9.70
Std6	0.658	0.003	0.43				-100.00
Normal Control	1.378	0.006	0.46	0.751	0.011	1.50	

