



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33083	Pokagon SP	6/19/2018	6/20/2018	< 0.30
AB33084	Southern Basin Inn's Beach	6/19/2018	6/20/2018	< 0.30
AB33085	Chain O' Lakes SP	6/19/2018	6/20/2018	< 0.30
AB33086	Kunkel Beach @ Ouabache SP	6/19/2018	6/20/2018	< 0.30
AB33087	Pokagon (Field Duplicate)	6/19/2018	6/20/2018	< 0.30
AB33088	Field Blank	6/19/2018	6/20/2018	< 0.30
AB33089	Potato Creek SP	6/18/2018	6/20/2018	< 0.30
AB33090	Mississinewa Lake Miami SRA	6/18/2018	6/20/2018	< 0.30
AB33090LD	Mississinewa (Lab Duplicate)	6/18/2018	6/20/2018	< 0.30
AB33091	Lost Bridge W. SPRA	6/18/2018	6/20/2018	< 0.30
AB33093	Field Blank	6/18/2018	6/20/2018	< 0.30
20180618LB	Lab Blank	6/18/2018	6/20/2018	< 0.30
AB33378	Dog Park Fr Ben Harrison	6/18/2018	6/20/2018	< 0.30



Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight # of decimals: 4
Normal: 5.0000 Assay Description:

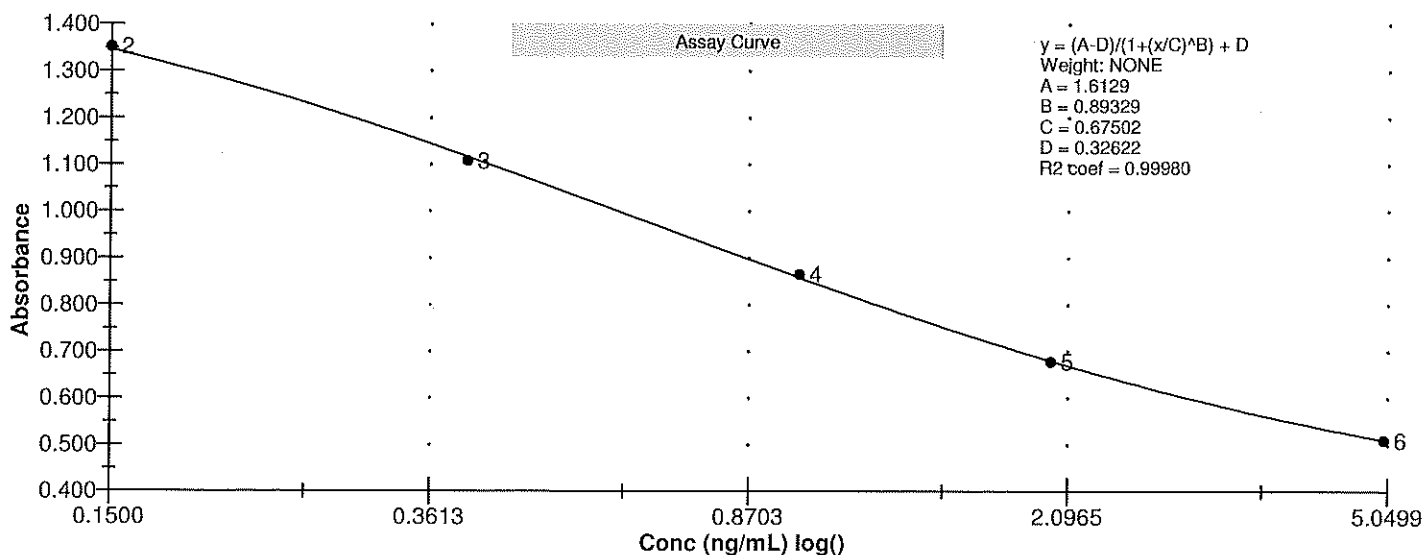
Controls:
Normal Control

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
6/20/2018 2:17:25 PM			
Std1	1.570 Abs	0.0156 ng/mL	A01
Std1	1.655 Abs	< 0.0000 ng/mL	B01
Std2	1.324 Abs	0.1686 ng/mL	C01
Std2	1.381 Abs	0.1239 ng/mL	D01
Std3	1.076 Abs	0.4645 ng/mL	E01
Std3	1.140 Abs	0.3677 ng/mL	F01
Std4	0.845 Abs	1.0471 ng/mL	G01
Std4	0.886 Abs	0.9044 ng/mL	H01
Std5	0.700 Abs	1.8343 ng/mL	A02
Std5	0.655 Abs	2.2347 ng/mL	B02
Std6	0.511 Abs	4.9825 ng/mL	C02
Std6	0.509 Abs	> 5.0000 ng/mL	D02
6/20/2018 2:17:25 PM			
Normal Control	0.972 Abs	0.6693 ng/mL	F02
Normal Control	0.886 Abs	0.9044 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.612	0.060	3.73				
Std2	1.352	0.040	2.98	0.146	0.032	21.61	-2.67
Std3	1.108	0.045	4.08	0.416	0.068	16.45	4.00
Std4	0.865	0.029	3.35	0.976	0.101	10.34	-2.40
Std5	0.678	0.032	4.70	2.035	0.283	13.92	1.75
Std6	0.510	0.001	0.28				-100.00
Normal Control	0.929	0.061	6.55	0.787	0.166	21.13	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/20/2018 2:17:25 PM						
Std1	Microcystins ADDA	1.570 Abs	0.0156 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.655 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.324 Abs	0.1686 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.381 Abs	0.1239 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.076 Abs	0.4645 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.140 Abs	0.3677 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.845 Abs	1.0471 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.886 Abs	0.9044 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.700 Abs	1.8343 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.655 Abs	2.2347 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.511 Abs	4.9825 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.509 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.886 Abs	0.9044 ng/mL			E02
Normal Control	Microcystins ADDA	0.972 Abs	0.6693 ng/mL			F02
AB33083	Microcystins ADDA	1.582 Abs	0.0107 ng/mL	LOW	0.1500 - 5.0000	G02
AB33083	Microcystins ADDA	1.585 Abs [1.5835] {0.1 C	0.0095 ng/mL [0.0101] {8.4 CV	Low [Low]	0.1500 - 5.0000	H02
AB33084	Microcystins ADDA	1.538 Abs	0.0299 ng/mL	LOW	0.1500 - 5.0000	A03
AB33084	Microcystins ADDA	1.631 Abs [1.5845] {4.2 C	< 0.0000 ng/mL [0.0097]	Out(LR) [Low]	0.1500 - 5.0000	B03
AB33085	Microcystins ADDA	1.540 Abs	0.0290 ng/mL	LOW	0.1500 - 5.0000	C03
AB33085	Microcystins ADDA	1.556 Abs [1.5480] {0.7 C	0.0216 ng/mL [0.0253] {20.7 C	Low [Low]	0.1500 - 5.0000	D03
AB33086	Microcystins ADDA	1.639 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB33086	Microcystins ADDA	1.689 Abs [1.6640] {2.1 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F03
AB33087	Microcystins ADDA	1.648 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G03
AB33087	Microcystins ADDA	1.560 Abs [1.6040] {3.9 C	0.0199 ng/mL [0.0026]	Low [Low]	0.1500 - 5.0000	H03
AB33088	Microcystins ADDA	1.564 Abs	0.0181 ng/mL	LOW	0.1500 - 5.0000	A04
AB33088	Microcystins ADDA	1.660 Abs [1.6120] {4.2 C	< 0.0000 ng/mL [0.0002]	Out(LR) [Low]	0.1500 - 5.0000	B04
AB33089	Microcystins ADDA	1.426 Abs	0.0928 ng/mL	LOW	0.1500 - 5.0000	C04
AB33089	Microcystins ADDA	1.427 Abs [1.4265] {0.0 C	0.0922 ng/mL [0.0925] {0.5 CV	Low [Low]	0.1500 - 5.0000	D04
AB33090	Microcystins ADDA	1.397 Abs	0.1124 ng/mL	LOW	0.1500 - 5.0000	E04
AB33090	Microcystins ADDA	1.448 Abs [1.4225] {2.5 C	0.0789 ng/mL [0.0951] {24.8 C	Low [Low]	0.1500 - 5.0000	F04
AB33090LD	Microcystins ADDA	1.398 Abs	0.1117 ng/mL	LOW	0.1500 - 5.0000	G04
AB33090LD	Microcystins ADDA	1.486 Abs [1.4420] {4.3 C	0.0567 ng/mL [0.0826] {46.2 C	Low [Low]	0.1500 - 5.0000	H04
AB33091	Microcystins ADDA	1.445 Abs	0.0808 ng/mL	LOW	0.1500 - 5.0000	A05
AB33091	Microcystins ADDA	1.559 Abs [1.5020] {5.4 C	0.0203 ng/mL [0.0480] {84.6 C	Low [Low]	0.1500 - 5.0000	B05
AB33093	Microcystins ADDA	1.558 Abs	0.0208 ng/mL	LOW	0.1500 - 5.0000	C05
AB33093	Microcystins ADDA	1.564 Abs [1.5610] {0.3 C	0.0181 ng/mL [0.0194] {9.8 CV	Low [Low]	0.1500 - 5.0000	D05
20180618LB	Microcystins ADDA	1.617 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E05
20180618LB	Microcystins ADDA	1.742 Abs [1.6795] {5.3 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F05
AB33378	Microcystins ADDA	1.633 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05
AB33378	Microcystins ADDA	1.718 Abs [1.6755] {3.6 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H05
CheckA	Microcystins ADDA	1.593 Abs	0.0065 ng/mL	LOW	0.1500 - 5.0000	A06
CheckA	Microcystins ADDA	1.538 Abs [1.5855] {2.5 C	0.0299 ng/mL [0.0175] {90.9 C	Low [Low]	0.1500 - 5.0000	B06
CheckB	Microcystins ADDA	0.671 Abs	2.0793 ng/mL		0.1500 - 5.0000	C06
CheckB	Microcystins ADDA	0.671 Abs [0.6710] {0.0 C	2.0793 ng/mL [2.0793] {0.0 CV		0.1500 - 5.0000	D06
CheckC	Microcystins ADDA	0.441 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E06
CheckC	Microcystins ADDA	0.491 Abs [0.4680] {7.6 C	> 5.0000 ng/mL [> 5.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F06

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

Beth Rately

Laboratory Analyst Signature

6/22/18

Date