Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25988	Mississinewa Miami SRA	7/5/2016	7/7/2016	< 0.15
AB25989	Potato Creek SP	7/5/2016	7/7/2016	4.0
AB25990	Pokagon SP	7/6/2016	7/7/2016	< 0.15
AB25991	Chain O'Lakes SP	7/6/2016	7/7/2016	< 0.15
AB25992	Lincoln SP	7/5/2016	7/7/2016	< 0.15
AB25992LD	Lincoln (Lab Duplicate)	7/5/2016	7/7/2016	< 0.15
AB25993	Ferdinand SP	7/5/2016	7/7/2016	< 0.15
AB25994	Lost Bridge West SRA	7/6/2016	7/7/2016	< 0.15
AB25995	Field Blank	7/5/2016	7/7/2016	< 0.15
AB25996	Potato Creek (Field Duplicate)	7/5/2016	7/7/2016	4.3
AB25997	Southern Basin Inn's Beach	7/6/2016	7/7/2016	< 0.15
20160705LB	Lab Blank	7/5/2016	7/7/2016	< 0.15

Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA
Assay Mode: 4-Parameter Logistic
Normal: 0.1500 - 5.0000

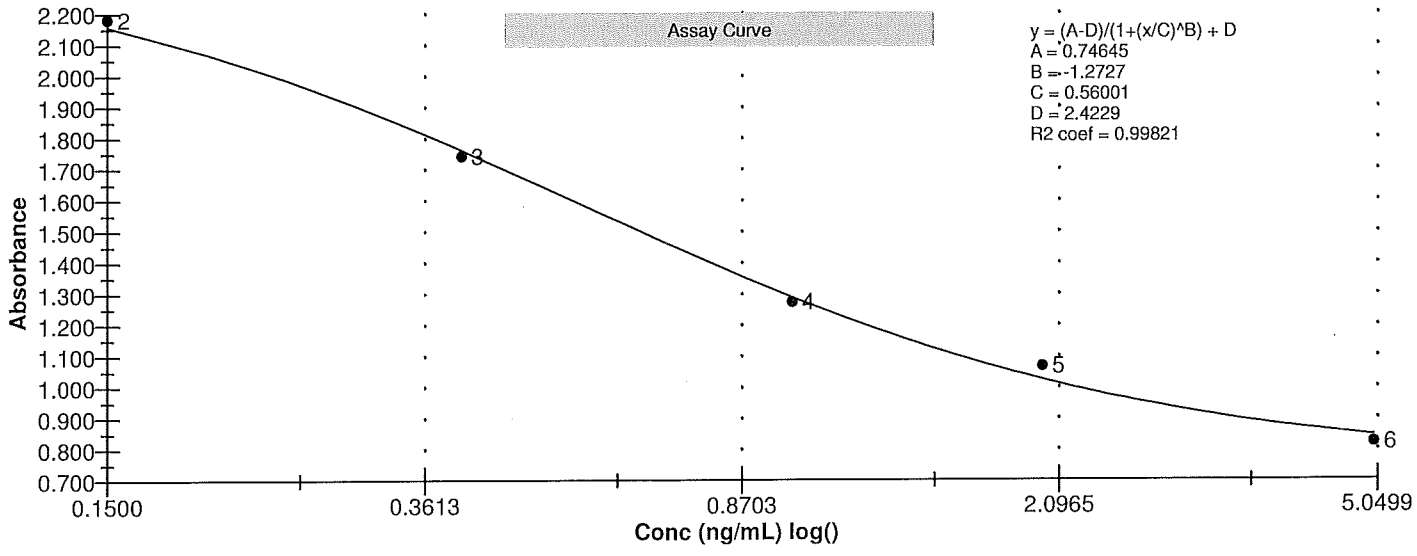
Units: ng/mL
# of decimals: 4
Assay Description:

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
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
7/7/2016 11:38:47 AM			
Std1	2.413 Abs	0.0100 ng/mL	A01
Std2	2.183 Abs	0.1372 ng/mL	C01
Std3	1.743 Abs	0.4146 ng/mL	F01
Std4	1.218 Abs	1.1705 ng/mL	G01
Std4	1.329 Abs	0.9186 ng/mL	H01
Std5	1.047 Abs	1.8500 ng/mL	A02
Std5	1.084 Abs	1.6535 ng/mL	B02
Std6	0.826 Abs	> 5.0000 ng/mL	C02
Std6	0.815 Abs	> 5.0000 ng/mL	D02
7/7/2016 11:38:47 AM			
Normal Control	1.630 Abs	0.5142 ng/mL	F02
Normal Control	1.514 Abs	0.6395 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.413			0.010			
Std2	2.183			0.137			-8.67
Std3	1.743			0.415			3.75
Std4	1.273	0.078	6.16	1.045	0.178	17.05	4.50
Std5	1.066	0.026	2.46	1.752	0.139	7.93	-12.40
Std6	0.821	0.008	0.95				-100.00
Normal Control	1.572	0.082	5.22	0.577	0.089	15.36	



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Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/7/2016 11:38:47 AM			
Std1	Microcystins ADDA	2.413 Abs	0.0218 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.506 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.183 Abs	0.1153 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.071 Abs	0.1680 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.643 Abs	0.4626 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.743 Abs	0.3747 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.218 Abs	1.1710 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.329 Abs	0.9000 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.047 Abs	1.9010 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.084 Abs	1.6910 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.826 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.815 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.514 Abs	0.6395 ng/mL			E02
Normal Control	Microcystins ADDA	1.630 Abs	0.5142 ng/mL			F02
AB25988	Microcystins ADDA	2.304 Abs	0.0742 ng/mL	LOW	0.1500 - 5.0000	G02
AB25988	Microcystins ADDA	2.323 Abs [2.3135] {0.6 C	0.0640 ng/mL [0.0691] {10.4 C	Low [Low]	0.1500 - 5.0000	H02
AB25989	Microcystins ADDA	0.877 Abs	3.9050 ng/mL		0.1500 - 5.0000	A03
AB25989	Microcystins ADDA	0.870 Abs [0.8735] {0.6 C	4.0900 ng/mL [3.9950] {3.3 CV		0.1500 - 5.0000	B03
AB25990	Microcystins ADDA	2.432 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C03
AB25990	Microcystins ADDA	2.496 Abs [2.4640] {1.8 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D03
AB25991	Microcystins ADDA	2.538 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB25991	Microcystins ADDA	2.570 Abs [2.5540] {0.9 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F03
AB25992	Microcystins ADDA	2.346 Abs	0.0516 ng/mL	LOW	0.1500 - 5.0000	G03
AB25992	Microcystins ADDA	2.440 Abs [2.3930] {2.8 C	< 0.0000 ng/mL [0.0240]	Out(LR) [Low]	0.1500 - 5.0000	H03
AB25992LD	Microcystins ADDA	2.451 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A04
AB25992LD	Microcystins ADDA	2.440 Abs [2.4455] {0.3 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	B04
AB25993	Microcystins ADDA	2.547 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C04
AB25993	Microcystins ADDA	2.493 Abs [2.5200] {1.5 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D04
AB25994	Microcystins ADDA	2.191 Abs	0.1330 ng/mL	LOW	0.1500 - 5.0000	E04
AB25994	Microcystins ADDA	2.169 Abs [2.1800] {0.7 C	0.1445 ng/mL [0.1388] {5.9 CV	Low [Low]	0.1500 - 5.0000	F04
AB25995	Microcystins ADDA	2.654 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G04
AB25995	Microcystins ADDA	2.533 Abs [2.5935] {3.3 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H04
AB25996	Microcystins ADDA	0.838 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
AB25996	Microcystins ADDA	0.888 Abs [0.8630] {4.1 C	3.6450 ng/mL [4.3000]		0.1500 - 5.0000	B05
AB25997	Microcystins ADDA	2.520 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
AB25997	Microcystins ADDA	2.451 Abs [2.4855] {2.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D05
20160705LB	Microcystins ADDA	2.571 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E05
20160705LB	Microcystins ADDA	2.569 Abs [2.5700] {0.1 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F05
AB25989 (3x)	Microcystins ADDA	1.536 Abs	0.6135 ng/mL		0.1500 - 5.0000	G05
AB25989 (3x)	Microcystins ADDA	1.549 Abs [1.5425] {0.6 C	0.5986 ng/mL [0.6061] {1.7 CV		0.1500 - 5.0000	H05
AB25996 (3x)	Microcystins ADDA	1.284 Abs	1.0100 ng/mL		0.1500 - 5.0000	A06
AB25996 (3x)	Microcystins ADDA	1.517 Abs [1.4005] {11.8	0.6360 ng/mL [0.7955] {32.1 C		0.1500 - 5.0000	B06
Check A	Microcystins ADDA	2.379 Abs	0.0327 ng/mL	LOW	0.1500 - 5.0000	C06
Check A	Microcystins ADDA	2.523 Abs [2.4510] {4.2 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D06
Check B	Microcystins ADDA	1.034 Abs	1.9300 ng/mL		0.1500 - 5.0000	E06
Check B	Microcystins ADDA	1.173 Abs [1.1035] {8.9 C	1.3035 ng/mL [1.5640] {27.4 C		0.1500 - 5.0000	F06
Check C	Microcystins ADDA	0.673 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G06
Check C	Microcystins ADDA	0.714 Abs [0.6935] {4.2 C	> 5.0000 ng/mL [> 5.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H06

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

Laboratory Analyst Signature

7/7/16

Date