



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB28356	Mississinewa (Field Duplicate)	8/1/2016	8/3/2016	< 0.15
AB28357	Field Blank	8/1/2016	8/3/2016	< 0.15
AB28358	Mississinewa Miami SRA	8/1/2016	8/3/2016	< 0.15
AB28359	Potato Creek SP	8/1/2016	8/3/2016	0.71
AB28360	Pokagon SP	8/2/2016	8/3/2016	< 0.15
AB28361	Southern Basin Inn's Beach	8/2/2016	8/3/2016	< 0.15
AB28361LD	Southern Basin (Lab Duplicate)	8/2/2016	8/3/2016	< 0.15
AB28362	Chain O'Lakes SP	8/2/2016	8/3/2016	< 0.15
AB28363	Lost Bridge West SRA	8/2/2016	8/3/2016	0.37
AB28364	Ferdinand SP	8/1/2016	8/3/2016	< 0.15
AB28365	Lincoln SP	7/31/2016	8/3/2016	< 0.15
20160801LB	Lab Blank	8/1/2016	8/3/2016	< 0.15



Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA Units: ng/mL
Assay Mode: 4-Parameter Logistic # of decimals: 4
Normal: 0.1500 - 5.0000 Assay Description:

Controls:
Normal Control

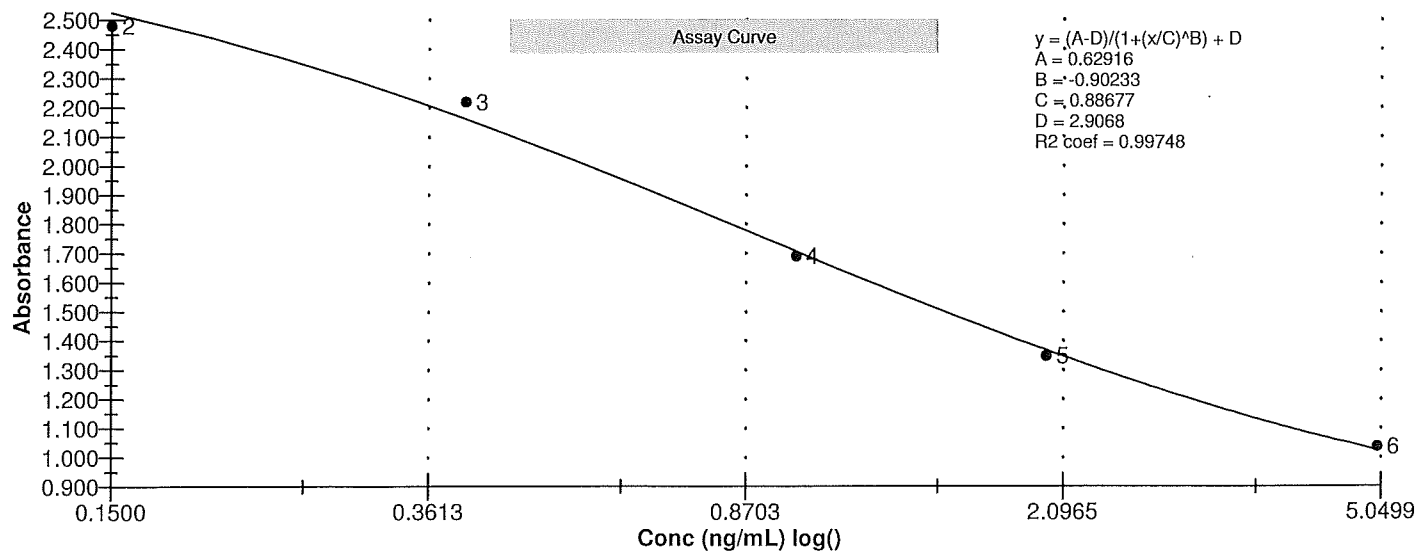
Standards:

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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/3/2016 4:16:41 PM			
Std1	2.950 Abs	< 0.0000 ng/mL	A01
Std1	2.884 Abs	0.0055 ng/mL	B01
Std2	2.451 Abs	0.1910 ng/mL	C01
Std2	2.509 Abs	0.1586 ng/mL	D01
Std3	2.219 Abs	0.3503 ng/mL	F01
Std4	1.690 Abs	1.0325 ng/mL	G01
Std5	1.339 Abs	2.1340 ng/mL	A02
Std5	1.357 Abs	2.0495 ng/mL	B02
Std6	1.045 Abs	4.6700 ng/mL	C02
Std6	1.030 Abs	4.9085 ng/mL	D02
8/3/2016 4:16:41 PM			
Normal Control	1.907 Abs	0.6755 ng/mL	F02
Normal Control	2.043 Abs	0.5135 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.917	0.047	1.60				
Std2	2.480	0.041	1.65	0.175	0.023	13.11	16.67
Std3	2.219			0.350			-12.50
Std4	1.690			1.033			3.30
Std5	1.348	0.013	0.94	2.092	0.060	2.86	4.60
Std6	1.037	0.011	1.02	4.789	0.169	3.52	-4.22
Normal Control	1.975	0.096	4.87	0.594	0.115	19.27	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/3/2016 4:16:41 PM						
Std1	Microcystins ADDA	2.950 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.884 Abs	0.0066 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.451 Abs	0.1675 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.509 Abs	0.1392 ng/mL		0.1500	D01
Std3	Microcystins ADDA	2.013 Abs	0.4858 ng/mL		0.4000	E01
Std3	Microcystins ADDA	2.219 Abs	0.3090 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.690 Abs	0.9375 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.605 Abs	1.1170 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.339 Abs	2.0235 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.357 Abs	1.9370 ng/mL		2.0000	B02
Std6	Microcystins ADDA	1.045 Abs	4.8535 ng/mL		5.0000	C02
Std6	Microcystins ADDA	1.030 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	2.043 Abs	0.5135 ng/mL			E02
Normal Control	Microcystins ADDA	1.907 Abs	0.6755 ng/mL			F02
AB28356	Microcystins ADDA	2.791 Abs	0.0346 ng/mL	LOW	0.1500 - 5.0000	G02
AB28356	Microcystins ADDA	2.707 Abs [2.7490] {2.2 C	0.0662 ng/mL [0.0498] {44.3 C	Low [Low]	0.1500 - 5.0000	H02
AB28357	Microcystins ADDA	2.890 Abs	0.0039 ng/mL	LOW	0.1500 - 5.0000	A03
AB28357	Microcystins ADDA	3.051 Abs [2.9705] {3.8 C	< 0.0000 ng/mL [< 0.0000]	Out(A,LR) [Out(LR)]	0.1500 - 5.0000	B03
AB28358	Microcystins ADDA	2.754 Abs	0.0479 ng/mL	LOW	0.1500 - 5.0000	C03
AB28358	Microcystins ADDA	2.705 Abs [2.7295] {1.3 C	0.0670 ng/mL [0.0573] {23.5 C	Low [Low]	0.1500 - 5.0000	D03
AB28359	Microcystins ADDA	1.880 Abs	0.7125 ng/mL		0.1500 - 5.0000	E03
AB28359	Microcystins ADDA	1.880 Abs [1.8800] {0.0 C	0.7125 ng/mL [0.7125] {0.0 CV		0.1500 - 5.0000	F03
AB28360	Microcystins ADDA	2.752 Abs	0.0487 ng/mL	LOW	0.1500 - 5.0000	G03
AB28360	Microcystins ADDA	2.643 Abs [2.6975] {2.9 C	0.0932 ng/mL [0.0700] {44.3 C	Low [Low]	0.1500 - 5.0000	H03
AB28361	Microcystins ADDA	2.561 Abs	0.1318 ng/mL	LOW	0.1500 - 5.0000	A04
AB28361	Microcystins ADDA	2.836 Abs [2.6985] {7.2 C	0.0196 ng/mL [0.0696] {104.8 C	Low [Low]	0.1500 - 5.0000	B04
AB28361LD	Microcystins ADDA	2.823 Abs	0.0238 ng/mL	LOW	0.1500 - 5.0000	C04
AB28361LD	Microcystins ADDA	2.876 Abs [2.8495] {1.3 C	0.0077 ng/mL [0.0154] {72.3 C	Low [Low]	0.1500 - 5.0000	D04
AB28362	Microcystins ADDA	2.961 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E04
AB28362	Microcystins ADDA	2.804 Abs [2.8825] {3.9 C	0.0301 ng/mL [0.0058]	Low [Low]	0.1500 - 5.0000	F04
AB28363	Microcystins ADDA	2.265 Abs	0.3144 ng/mL		0.1500 - 5.0000	G04
AB28363	Microcystins ADDA	2.115 Abs [2.1900] {4.8 C	0.4415 ng/mL [0.3743] {23.8 C		0.1500 - 5.0000	H04
AB28364	Microcystins ADDA	2.705 Abs	0.0670 ng/mL	LOW	0.1500 - 5.0000	A05
AB28364	Microcystins ADDA	2.747 Abs [2.7260] {1.1 C	0.0505 ng/mL [0.0586] {19.9 C	Low [Low]	0.1500 - 5.0000	B05
AB28365	Microcystins ADDA	2.790 Abs	0.0349 ng/mL	LOW	0.1500 - 5.0000	C05
AB28365	Microcystins ADDA	2.835 Abs [2.8125] {1.1 C	0.0199 ng/mL [0.0272] {38.7 C	Low [Low]	0.1500 - 5.0000	D05
20160801LB	Microcystins ADDA	2.849 Abs	0.0155 ng/mL	LOW	0.1500 - 5.0000	E05
20160801LB	Microcystins ADDA	2.887 Abs [2.8680] {0.9 C	0.0047 ng/mL [0.0099] {75.6 C	Low [Low]	0.1500 - 5.0000	F05
CheckA	Microcystins ADDA	2.923 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05
CheckA	Microcystins ADDA	2.942 Abs [2.9325] {0.5 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H05
CheckB	Microcystins ADDA	1.515 Abs	1.4630 ng/mL		0.1500 - 5.0000	A06
CheckB	Microcystins ADDA	1.537 Abs [1.5260] {1.0 C	1.3990 ng/mL [1.4305] {3.2 CV		0.1500 - 5.0000	B06
CheckC	Microcystins ADDA	0.954 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C06
CheckC	Microcystins ADDA	0.813 Abs [0.8835] {11.3	> 5.0000 ng/mL [> 5.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D06

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

Beth C. C. C.

Laboratory Analyst Signature

8/4/16

Date