



## Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25353	Mississinewa Miami SRA	6/6/2016	6/8/2016	< 0.150
AB25354	Potato Creek SP	6/6/2016	6/8/2016	< 0.150
AB25355	Pokagon SP	6/7/2016	6/8/2016	< 0.150
AB25356	Chain O'Lakes SP	6/7/2016	6/8/2016	< 0.150
AB25357	Lincoln SP	6/5/2016	6/8/2016	< 0.150
AB25357LD	Lincoln (Lab Duplicate)	6/5/2016	6/8/2016	< 0.150
AB25358	Ferdinand SP	6/6/2016	6/8/2016	< 0.150
AB25359	Lost Bridge West SRA	6/7/2016	6/8/2016	< 0.150
AB25360	Field Blank	6/7/2016	6/8/2016	< 0.150
AB25361	Pokagon (Field Duplicate)	6/7/2016	6/8/2016	< 0.150
20160608LB	Lab Blank	6/6/2016	6/8/2016	< 0.150



# 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

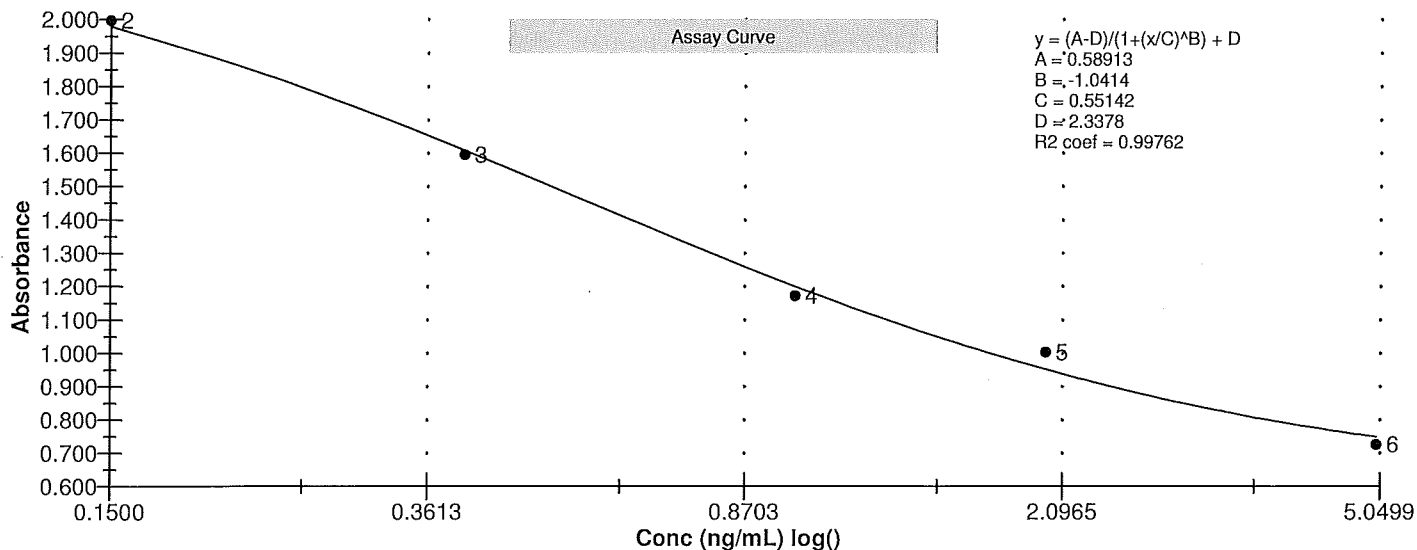
Curve valid interval: 7 days 0 hours

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

## Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
6/8/2016 11:33:17 AM			
Std1	2.292 Abs	0.0171 ng/mL	A01
Std1	2.371 Abs	< 0.0000 ng/mL	B01
Std2	2.058 Abs	0.1122 ng/mL	C01
Std2	1.937 Abs	0.1720 ng/mL	D01
Std3	1.551 Abs	0.4546 ng/mL	E01
Std3	1.639 Abs	0.3730 ng/mL	F01
Std4	1.168 Abs	1.0835 ng/mL	G01
Std4	1.177 Abs	1.0600 ng/mL	H01
Std5	1.059 Abs	1.4425 ng/mL	A02
Std5	0.947 Abs	2.0300 ng/mL	B02
Std6	0.704 Abs	> 5.0000 ng/mL	C02
Std6	0.748 Abs	> 5.0000 ng/mL	D02
6/8/2016 11:33:17 AM			
Normal Control	1.376 Abs	0.6686 ng/mL	F02
Normal Control	1.422 Abs	0.6040 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.332	0.056	2.40				
Std2	1.998	0.086	4.28	0.142	0.042	29.76	-5.33
Std3	1.595	0.062	3.90	0.414	0.058	13.94	3.50
Std4	1.173	0.006	0.54	1.072	0.017	1.55	7.20
Std5	1.003	0.079	7.90	1.736	0.415	23.93	-13.20
Std6	0.726	0.031	4.29				-100.00
Normal Control	1.399	0.033	2.33	0.636	0.046	7.18	





# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/8/2016 11:33:17 AM						
Std1	Microcystins ADDA	2.292 Abs	0.0171 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.371 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.058 Abs	0.1122 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.937 Abs	0.1720 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.551 Abs	0.4546 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.639 Abs	0.3730 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.168 Abs	1.0835 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.177 Abs	1.0600 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.059 Abs	1.4425 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.947 Abs	2.0300 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.704 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.748 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.422 Abs	0.6040 ng/mL			E02
Normal Control	Microcystins ADDA	1.376 Abs	0.6686 ng/mL			F02
AB25353	Microcystins ADDA	2.172 Abs	0.0632 ng/mL	LOW	0.1500 - 5.0000	G02
AB25353	Microcystins ADDA	2.198 Abs [2.1850] {0.8 C	0.0528 ng/mL [0.0580] {12.7 C	Low [Low]	0.1500 - 5.0000	H02
AB25354	Microcystins ADDA	2.046 Abs	0.1177 ng/mL	LOW	0.1500 - 5.0000	A03
AB25354	Microcystins ADDA	2.068 Abs [2.0570] {0.8 C	0.1076 ng/mL [0.1126] {6.3 CV	Low [Low]	0.1500 - 5.0000	B03
AB25355	Microcystins ADDA	2.430 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C03
AB25355	Microcystins ADDA	2.311 Abs [2.3705] {3.5 C	0.0101 ng/mL [< 0.0000]	Low [Out(LR)]	0.1500 - 5.0000	D03
AB25356	Microcystins ADDA	2.333 Abs	0.0019 ng/mL	LOW	0.1500 - 5.0000	E03
AB25356	Microcystins ADDA	2.365 Abs [2.3490] {1.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F03
AB25357	Microcystins ADDA	2.349 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G03
AB25357	Microcystins ADDA	2.390 Abs [2.3695] {1.2 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H03
AB25357LD	Microcystins ADDA	2.198 Abs	0.0528 ng/mL	LOW	0.1500 - 5.0000	A04
AB25357LD	Microcystins ADDA	2.318 Abs [2.2580] {3.8 C	0.0076 ng/mL [0.0298] {105.8 C	Low [Low]	0.1500 - 5.0000	B04
AB25358	Microcystins ADDA	2.272 Abs	0.0245 ng/mL	LOW	0.1500 - 5.0000	C04
AB25358	Microcystins ADDA	2.275 Abs [2.2735] {0.1 C	0.0234 ng/mL [0.0240] {3.2 CV	Low [Low]	0.1500 - 5.0000	D04
AB25359	Microcystins ADDA	2.249 Abs	0.0331 ng/mL	LOW	0.1500 - 5.0000	E04
AB25359	Microcystins ADDA	2.380 Abs [2.3145] {4.0 C	< 0.0000 ng/mL [0.0088]	Out(LR) [Low]	0.1500 - 5.0000	F04
AB25360	Microcystins ADDA	2.280 Abs	0.0215 ng/mL	LOW	0.1500 - 5.0000	G04
AB25360	Microcystins ADDA	2.222 Abs [2.2510] {1.8 C	0.0435 ng/mL [0.0324] {47.9 C	Low [Low]	0.1500 - 5.0000	H04
AB25361	Microcystins ADDA	2.234 Abs	0.0388 ng/mL	LOW	0.1500 - 5.0000	A05
AB25361	Microcystins ADDA	2.245 Abs [2.2395] {0.3 C	0.0347 ng/mL [0.0368] {7.9 CV	Low [Low]	0.1500 - 5.0000	B05
20160606LB	Microcystins ADDA	2.170 Abs	0.0640 ng/mL	LOW	0.1500 - 5.0000	C05
20160606LB	Microcystins ADDA	2.231 Abs [2.2005] {2.0 C	0.0400 ng/mL [0.0518] {32.6 C	Low [Low]	0.1500 - 5.0000	D05
CheckA	Microcystins ADDA	2.259 Abs	0.0293 ng/mL	LOW	0.1500 - 5.0000	E05
CheckA	Microcystins ADDA	2.325 Abs [2.2920] {2.0 C	0.0050 ng/mL [0.0171] {100.2 C	Low [Low]	0.1500 - 5.0000	F05
CheckB	Microcystins ADDA	0.973 Abs	1.8645 ng/mL		0.1500 - 5.0000	G05
CheckB	Microcystins ADDA	0.976 Abs [0.9745] {0.2 C	1.8470 ng/mL [1.8550] {0.7 CV		0.1500 - 5.0000	H05
CheckC	Microcystins ADDA	0.628 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A06
CheckC	Microcystins ADDA	0.602 Abs [0.6150] {3.0 C	> 5.0000 ng/mL [> 5.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	B06

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

*Betty Cantley*

Laboratory Analyst Signature

6/8/16

Date