Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB16342	Mississinewa Miami SRA	5/19/2014	5/21/2014	< 0.150
AB16343	Potato Creek SP	5/19/2014	5/21/2014	< 0.150
AB16355	Field Duplicate (Mississinewa Miami)	5/19/2014	5/21/2014	< 0.150
AB16356	Field Blank	5/19/2014	5/21/2014	< 0.150
AB16342LD	Lab Duplicate (Mississinewa Miami)	5/19/2014	5/21/2014	< 0.150
20140519LB	Lab Blank	5/19/2014	5/21/2014	< 0.150
AB16344	Pokagon SP	5/20/2014	5/21/2014	< 0.150
AB16345	Chain O'Lakes SP (Sand Lake)	5/20/2014	5/21/2014	< 0.150
AB16734	Salamonie Lost Bridge West SRA	5/20/2014	5/21/2014	< 0.150
AB17053	Lincoln SP (Lake Lincoln)	5/20/2014	5/21/2014	< 0.150
AB16995	Ferdinand SP (Ferdinand Lake)	5/20/2014	5/21/2014	< 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:

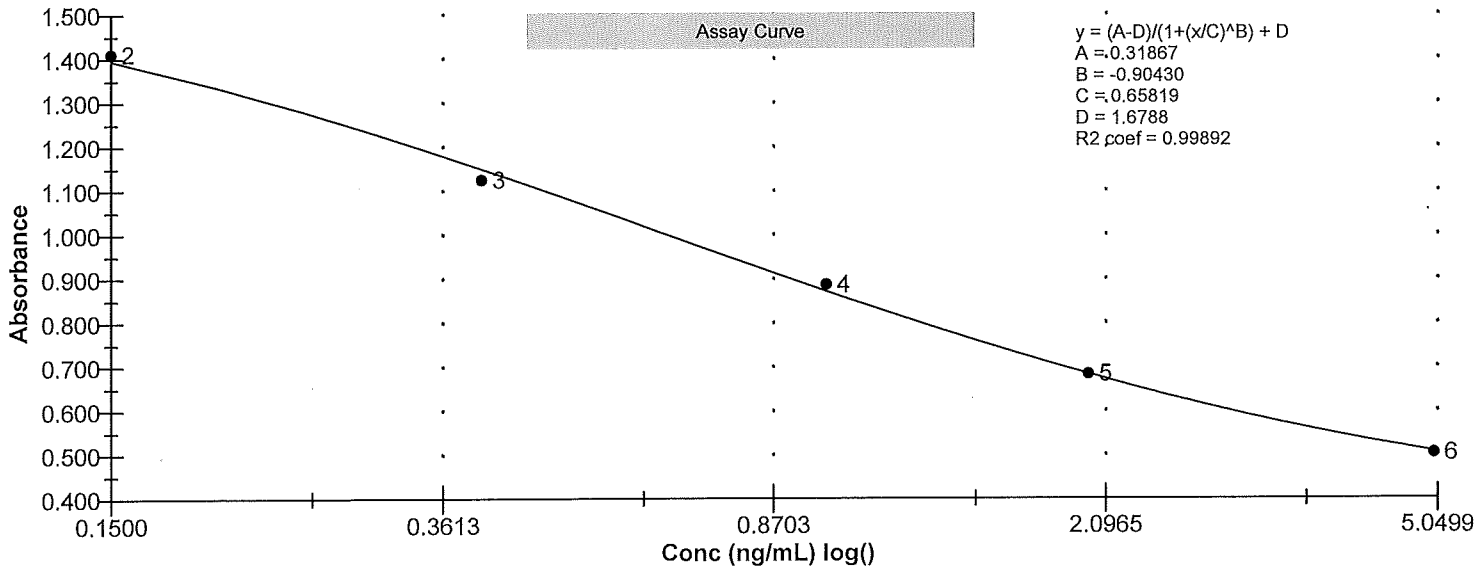
Controls:
Normal Control
Standards:
Std1, Concentration = 0.0000, Minimum number to use: 2
Std2, Concentration = 0.1500, Minimum number to use: 2
Std3, Concentration = 0.4000, Minimum number to use: 2
Std4, Concentration = 1.0000, Minimum number to use: 2
Std5, Concentration = 2.0000, Minimum number 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
5/21/2014 1:20:08 PM			
Std1	1.611 Abs	0.0253 ng/mL	A01
Std1	1.741 Abs	< 0.0000 ng/mL	B01
Std2	1.410 Abs	0.1398 ng/mL	C01
Std2	1.413 Abs	0.1376 ng/mL	D01
Std3	1.114 Abs	0.4507 ng/mL	E01
Std3	1.136 Abs	0.4185 ng/mL	F01
Std4	0.935 Abs	0.8105 ng/mL	G01
Std4	0.840 Abs	1.1140 ng/mL	H01
Std5	0.645 Abs	2.3550 ng/mL	A02
Std5	0.722 Abs	1.7115 ng/mL	B02
Std6	0.480 Abs	> 5.0000 ng/mL	C02
Std6	0.526 Abs	4.3900 ng/mL	D02
5/21/2014 1:20:08 PM			
Normal Control	0.911 Abs	0.8770 ng/mL	F02
Normal Control	0.972 Abs	0.7180 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.676	0.092	5.48				
Std2	1.411	0.002	0.15	0.139	0.002	1.12	-7.33
Std3	1.125	0.016	1.38	0.435	0.023	5.24	8.75
Std4	0.887	0.067	7.57	0.962	0.215	22.30	-3.80
Std5	0.683	0.054	7.97	2.033	0.455	22.38	1.65
Std6	0.503	0.033	6.47				-100.00
Normal Control	0.942	0.043	4.58	0.798	0.112	14.10	

Assay Curve



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			5/21/2014 1:20:08 PM			
Std1	Microcystins ADDA	1.611 Abs	0.0253 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.741 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.410 Abs	0.1398 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.413 Abs	0.1376 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.114 Abs	0.4507 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.136 Abs	0.4185 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.935 Abs	0.8105 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.840 Abs	1.1140 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.645 Abs	2.3550 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.722 Abs	1.7115 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.480 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.526 Abs	4.3900 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.972 Abs	0.7180 ng/mL			E02
Normal Control	Microcystins ADDA	0.911 Abs	0.8770 ng/mL			F02
AB16342	Microcystins ADDA	1.731 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB16342	Microcystins ADDA	1.700 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H02
AB16343	Microcystins ADDA	1.412 Abs	0.1383 ng/mL	LOW	0.1500 - 5.0000	A03
AB16343	Microcystins ADDA	1.452 Abs	0.1111 ng/mL	LOW	0.1500 - 5.0000	B03
AB16355	Microcystins ADDA	1.571 Abs	0.0437 ng/mL	LOW	0.1500 - 5.0000	C03
AB16355	Microcystins ADDA	1.581 Abs	0.0389 ng/mL	LOW	0.1500 - 5.0000	D03
AB16356	Microcystins ADDA	1.661 Abs	0.0055 ng/mL	LOW	0.1500 - 5.0000	E03
AB16356	Microcystins ADDA	1.711 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F03
AB16342LD	Microcystins ADDA	1.565 Abs	0.0467 ng/mL	LOW	0.1500 - 5.0000	G03
AB16342LD	Microcystins ADDA	1.704 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H03
20140519LB	Microcystins ADDA	1.750 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A04
20140519LB	Microcystins ADDA	1.704 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B04
AB16344	Microcystins ADDA	1.546 Abs	0.0562 ng/mL	LOW	0.1500 - 5.0000	C04
AB16344	Microcystins ADDA	1.521 Abs	0.0697 ng/mL	LOW	0.1500 - 5.0000	D04
AB16345	Microcystins ADDA	1.675 Abs	0.0010 ng/mL	LOW	0.1500 - 5.0000	E04
AB16345	Microcystins ADDA	1.724 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F04
AB16734	Microcystins ADDA	1.671 Abs	0.0022 ng/mL	LOW	0.1500 - 5.0000	G04
AB16734	Microcystins ADDA	1.708 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H04
AB17053	Microcystins ADDA	1.538 Abs	0.0605 ng/mL	LOW	0.1500 - 5.0000	A05
AB17053	Microcystins ADDA	1.640 Abs	0.0133 ng/mL	LOW	0.1500 - 5.0000	B05
AB16995	Microcystins ADDA	1.599 Abs	0.0305 ng/mL	LOW	0.1500 - 5.0000	C05
AB16995	Microcystins ADDA	1.562 Abs	0.0481 ng/mL	LOW	0.1500 - 5.0000	D05
CheckA	Microcystins ADDA	1.631 Abs	0.0169 ng/mL	LOW	0.1500 - 5.0000	E05
CheckA	Microcystins ADDA	1.785 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F05
CheckB	Microcystins ADDA	0.632 Abs	2.4995 ng/mL		0.1500 - 5.0000	G05
CheckB	Microcystins ADDA	0.665 Abs	2.1595 ng/mL		0.1500 - 5.0000	H05
CheckC	Microcystins ADDA	0.425 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A06
CheckC	Microcystins ADDA	0.419 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B06
Normal Control2	Microcystins ADDA	0.818 Abs	1.2020 ng/mL		0.1500 - 5.0000	C06
Normal Control2	Microcystins ADDA	0.925 Abs	0.8375 ng/mL		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.

Betty Ratchford 5-22-14

Laboratory Analyst Signature

Secondary Analyst Signature

Signature