Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB20646	Lincoln SP	5/17/2015	5/20/2015	< 0.150
AB20647	Ferdinand SP	5/18/2015	5/20/2015	< 0.150
AB20677	Chain O'Lakes (Field Duplicate)	5/19/2015	5/20/2015	< 0.150
AB20678	Field Blank	5/19/2015	5/20/2015	< 0.150
AB20679	Mississinewa Miami SRA	5/18/2015	5/20/2015	< 0.150
AB20680	Potato Creek SP	5/18/2015	5/20/2015	0.405
AB20681	Pokagon SP	5/19/2015	5/20/2015	< 0.150
AB20682	Chain O'Lakes SP	5/19/2015	5/20/2015	< 0.150
AB20683	Lost Bridge West SRA	5/19/2015	5/20/2015	< 0.150
20150518LB	Lab Blank	5/18/2015	5/20/2015	< 0.150
AB20679LD	Mississinewa Miami (Lab Duplicate)	5/18/2015	5/20/2015	< 0.150

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			5/20/2015 11:35:44 AM			
Std1	Microcystins ADDA	1.316 Abs	0.0011 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.317 Abs	0.0006 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.073 Abs	0.1481 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.091 Abs	0.1340 ng/mL		0.1500	D01
Std3	Microcystins ADDA	0.824 Abs	0.4630 ng/mL		0.4000	E01
Std3	Microcystins ADDA	0.857 Abs	0.4020 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.658 Abs	1.0000 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.675 Abs	0.9160 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.564 Abs	1.7735 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.549 Abs	1.9850 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.445 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.467 Abs	4.7500 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.787 Abs	0.5435 ng/mL			E02
Normal Control	Microcystins ADDA	0.746 Abs	0.6525 ng/mL			F02
AB20646	Microcystins ADDA	1.290 Abs	0.0135 ng/mL	**LOW**	0.1500 - 5.0000	G02
AB20646	Microcystins ADDA	1.296 Abs	0.0106 ng/mL	**LOW**	0.1500 - 5.0000	H02
AB20647	Microcystins ADDA	1.345 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A03
AB20647	Microcystins ADDA	1.345 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B03
AB20677	Microcystins ADDA	1.282 Abs	0.0174 ng/mL	**LOW**	0.1500 - 5.0000	C03
AB20677	Microcystins ADDA	1.286 Abs	0.0155 ng/mL	**LOW**	0.1500 - 5.0000	D03
AB20678	Microcystins ADDA	1.385 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB20678	Microcystins ADDA	1.330 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F03
AB20679	Microcystins ADDA	1.180 Abs	0.0730 ng/mL	**LOW**	0.1500 - 5.0000	G03
AB20679	Microcystins ADDA	1.183 Abs	0.0712 ng/mL	**LOW**	0.1500 - 5.0000	H03
AB20680	Microcystins ADDA	0.886 Abs	0.3552 ng/mL		0.1500 - 5.0000	A04
AB20680	Microcystins ADDA	0.828 Abs	0.4550 ng/mL		0.1500 - 5.0000	B04
AB20681	Microcystins ADDA	1.308 Abs	0.0049 ng/mL	**LOW**	0.1500 - 5.0000	C04
AB20681	Microcystins ADDA	1.261 Abs	0.0280 ng/mL	**LOW**	0.1500 - 5.0000	D04
AB20682	Microcystins ADDA	1.267 Abs	0.0249 ng/mL	**LOW**	0.1500 - 5.0000	E04
AB20682	Microcystins ADDA	1.253 Abs	0.0320 ng/mL	**LOW**	0.1500 - 5.0000	F04
AB20683	Microcystins ADDA	1.292 Abs	0.0126 ng/mL	**LOW**	0.1500 - 5.0000	G04
AB20683	Microcystins ADDA	1.325 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H04
20150518LB	Microcystins ADDA	1.368 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
20150518LB	Microcystins ADDA	1.284 Abs	0.0165 ng/mL	**LOW**	0.1500 - 5.0000	B05
AB20679LD	Microcystins ADDA	1.216 Abs	0.0520 ng/mL	**LOW**	0.1500 - 5.0000	C05
AB20679LD	Microcystins ADDA	1.225 Abs	0.0470 ng/mL	**LOW**	0.1500 - 5.0000	D05

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

5-20-15

Date

Assay Calibration Report

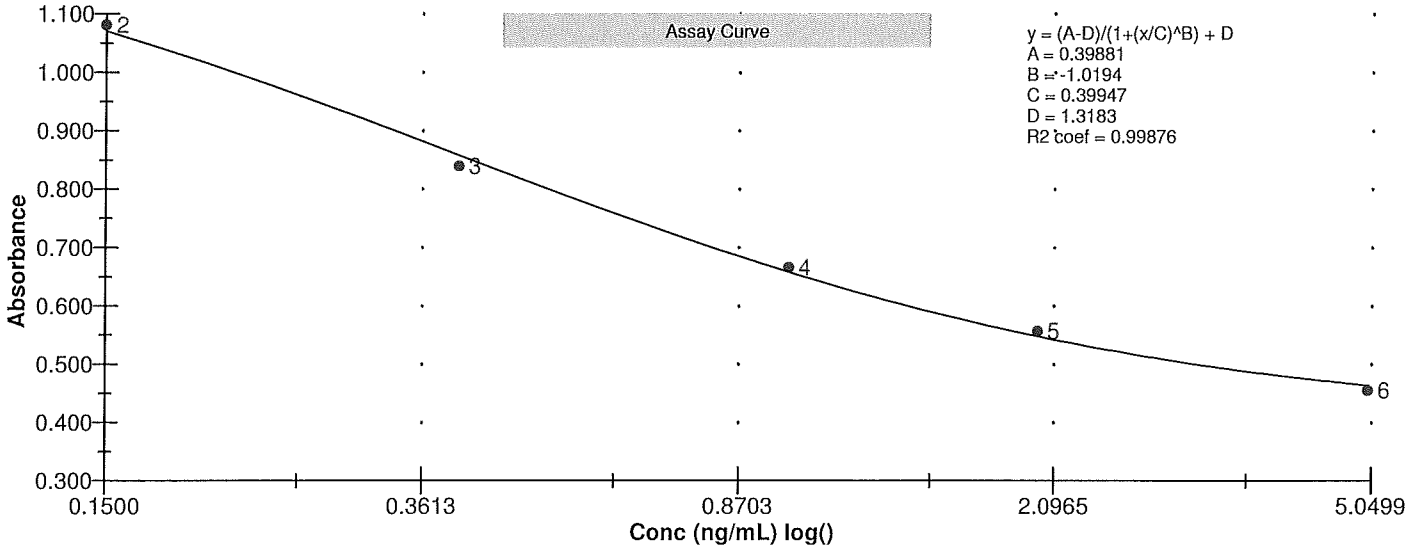
Assay Information

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
5/20/2015 11:35:44 AM			
Std1	1.316 Abs	0.0011 ng/mL	A01
Std1	1.317 Abs	0.0006 ng/mL	B01
Std2	1.073 Abs	0.1481 ng/mL	C01
Std2	1.091 Abs	0.1340 ng/mL	D01
Std3	0.824 Abs	0.4630 ng/mL	E01
Std3	0.857 Abs	0.4020 ng/mL	F01
Std4	0.658 Abs	1.0000 ng/mL	G01
Std4	0.675 Abs	0.9160 ng/mL	H01
Std5	0.564 Abs	1.7735 ng/mL	A02
Std5	0.549 Abs	1.9850 ng/mL	B02
Std6	0.445 Abs	> 5.0000 ng/mL	C02
Std6	0.467 Abs	4.7500 ng/mL	D02
5/20/2015 11:35:44 AM			
Normal Control	0.746 Abs	0.6525 ng/mL	F02
Normal Control	0.787 Abs	0.5435 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.316	0.001	0.05	0.001	0.000	41.59	
Std2	1.082	0.013	1.18	0.141	0.010	7.07	-6.00
Std3	0.840	0.023	2.78	0.433	0.043	9.97	8.25
Std4	0.666	0.012	1.80	0.958	0.059	6.20	-4.20
Std5	0.557	0.011	1.91	1.879	0.150	7.96	-6.05
Std6	0.456	0.016	3.41				-100.00
Normal Control	0.766	0.029	3.78	0.598	0.077	12.89