



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB30236	Fairfax SRA	8/7/2017	8/9/2017	< 0.30
AB30237	Paynetown SRA	8/7/2017	8/9/2017	< 0.30
AB30237LD	Paynetown (Lab Duplicate)	8/7/2017	8/9/2017	< 0.30
AB30238	Starve Hollow SRA	8/7/2017	8/9/2017	< 0.30
AB30239	Deam Lake SRA	8/7/2017	8/9/2017	< 0.30
AB30240	Hardy Lake SRA	8/7/2017	8/9/2017	0.460
AB30241	Whitewater Memorial SP	8/8/2017	8/9/2017	< 0.30
AB30242	Quakertown SRA	8/8/2017	8/9/2017	< 0.30
AB30243	Mounds SRA	8/8/2017	8/9/2017	< 0.30
AB30244	Raccoon Lake SRA	8/8/2017	8/9/2017	< 0.30
AB30234	Mounds (Field Duplicate)	8/8/2017	8/9/2017	< 0.30
AB30235	Field Blank	8/8/2017	8/9/2017	< 0.30
20170808LB	Lab Blank	8/8/2017	8/9/2017	< 0.30



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:

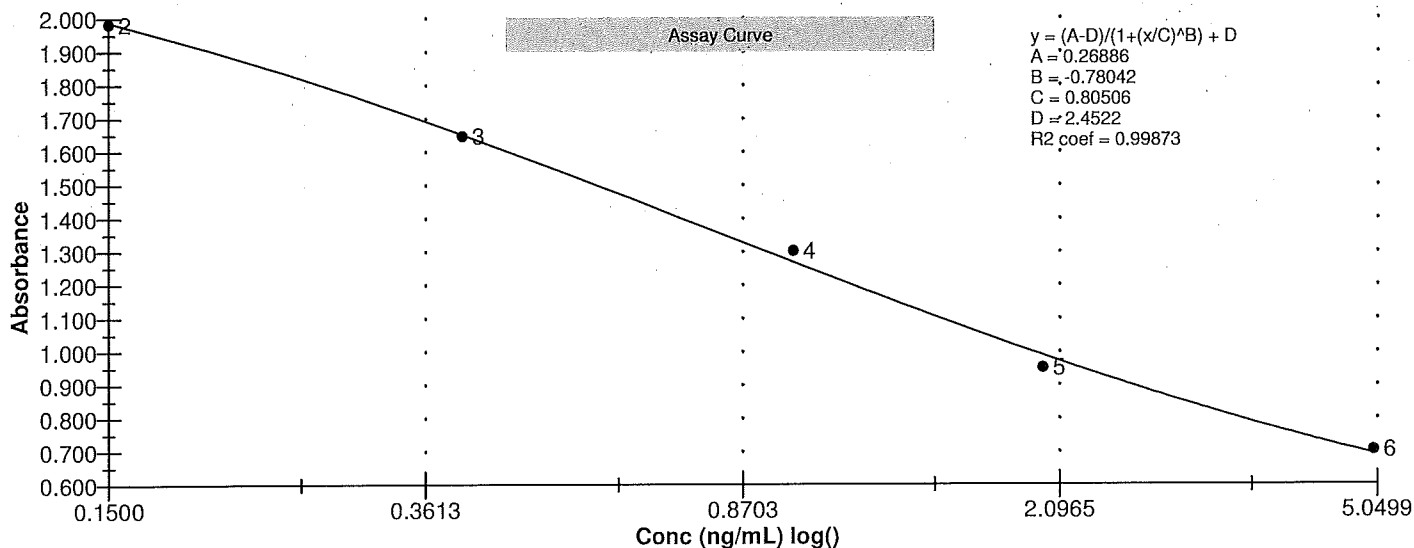
Controls:
 Normal Control
 Standards:

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
8/9/2017 5:23:27 PM			
Std1	2.567 Abs	< 0.0000 ng/mL	A01
Std1	2.341 Abs	0.0190 ng/mL	B01
Std2	1.975 Abs	0.1573 ng/mL	C01
Std2	1.991 Abs	0.1488 ng/mL	D01
Std3	1.617 Abs	0.4358 ng/mL	E01
Std3	1.677 Abs	0.3746 ng/mL	F01
Std4	1.275 Abs	0.9845 ng/mL	G01
Std4	1.329 Abs	0.8670 ng/mL	H01
Std5	0.956 Abs	2.1825 ng/mL	A02
Std5	0.947 Abs	2.2365 ng/mL	B02
Std6	0.680 Abs	> 5.0000 ng/mL	C02
Std6	0.728 Abs	4.3880 ng/mL	D02
8/9/2017 5:23:27 PM			
Normal Control	1.618 Abs	0.4347 ng/mL	F02
Normal Control	1.354 Abs	0.8175 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.454	0.160	6.51				
Std2	1.983	0.011	0.57	0.153	0.006	3.93	2.00
Std3	1.647	0.042	2.58	0.405	0.043	10.68	1.25
Std4	1.302	0.038	2.93	0.926	0.083	8.97	-7.40
Std5	0.951	0.006	0.67	2.209	0.038	1.73	10.45
Std6	0.704	0.034	4.82				-100.00
Normal Control	1.486	0.187	12.56	0.626	0.271	43.23	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/9/2017 5:23:27 PM						
Std1	Microcystins ADDA	2.567 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.341 Abs	0.0190 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.975 Abs	0.1573 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.991 Abs	0.1488 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.617 Abs	0.4358 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.677 Abs	0.3746 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.275 Abs	0.9845 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.329 Abs	0.8670 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.956 Abs	2.1825 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.947 Abs	2.2365 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.680 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.728 Abs	4.3880 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.354 Abs	0.8175 ng/mL			E02
Normal Control	Microcystins ADDA	1.618 Abs	0.4347 ng/mL			F02
AB30236	Microcystins ADDA	2.432 Abs	0.0020 ng/mL	LOW	0.1500 - 5.0000	G02
AB30236	Microcystins ADDA	2.440 Abs [2.4360] {0.2 C'	0.0011 ng/mL [0.0015] {41.1 C'	Low [Low]	0.1500 - 5.0000	H02
AB30237	Microcystins ADDA	2.273 Abs	0.0365 ng/mL	LOW	0.1500 - 5.0000	A03
AB30237	Microcystins ADDA	2.461 Abs [2.3670] {5.6 C'	< 0.0000 ng/mL [0.0132]	Out(LR) [Low]	0.1500 - 5.0000	B03
AB30237LD	Microcystins ADDA	2.127 Abs	0.0862 ng/mL	LOW	0.1500 - 5.0000	C03
AB30237LD	Microcystins ADDA	2.270 Abs [2.1985] {4.6 C'	0.0373 ng/mL [0.0598] {56.0 C'	Low [Low]	0.1500 - 5.0000	D03
AB30238	Microcystins ADDA	2.126 Abs	0.0866 ng/mL	LOW	0.1500 - 5.0000	E03
AB30238	Microcystins ADDA	2.163 Abs [2.1445] {1.2 C'	0.0724 ng/mL [0.0794] {12.6 C'	Low [Low]	0.1500 - 5.0000	F03
AB30239	Microcystins ADDA	2.207 Abs	0.0569 ng/mL	LOW	0.1500 - 5.0000	G03
AB30239	Microcystins ADDA	2.280 Abs [2.2435] {2.3 C'	0.0345 ng/mL [0.0452] {34.7 C'	Low [Low]	0.1500 - 5.0000	H03
AB30240	Microcystins ADDA	1.558 Abs	0.5037 ng/mL		0.1500 - 5.0000	A04
AB30240	Microcystins ADDA	1.631 Abs [1.5945] {3.2 C'	0.4210 ng/mL [0.4607] {12.6 C'		0.1500 - 5.0000	B04
AB30245	Microcystins ADDA	2.434 Abs	0.0018 ng/mL	LOW	0.1500 - 5.0000	C04
AB30245	Microcystins ADDA	2.247 Abs [2.3405] {5.6 C'	0.0441 ng/mL [0.0191] {130.3 C'	Low [Low]	0.1500 - 5.0000	D04
AB30241	Microcystins ADDA	2.208 Abs	0.0566 ng/mL	LOW	0.1500 - 5.0000	E04
AB30241	Microcystins ADDA	2.270 Abs [2.2390] {2.0 C'	0.0373 ng/mL [0.0466] {29.1 C'	Low [Low]	0.1500 - 5.0000	F04
AB30242	Microcystins ADDA	2.113 Abs	0.0919 ng/mL	LOW	0.1500 - 5.0000	G04
AB30242	Microcystins ADDA	2.182 Abs [2.1475] {2.3 C'	0.0655 ng/mL [0.0782] {23.7 C'	Low [Low]	0.1500 - 5.0000	H04
AB30243	Microcystins ADDA	1.945 Abs	0.1740 ng/mL		0.1500 - 5.0000	A05
AB30243	Microcystins ADDA	1.821 Abs [1.8830] {4.7 C'	0.2541 ng/mL [0.2117] {26.5 C'		0.1500 - 5.0000	B05
AB30244	Microcystins ADDA	1.972 Abs	0.1590 ng/mL		0.1500 - 5.0000	C05
AB30244	Microcystins ADDA	1.998 Abs [1.9850] {0.9 C'	0.1452 ng/mL [0.1520] {6.4 CV	LOW	0.1500 - 5.0000	D05
AB30234	Microcystins ADDA	1.804 Abs	0.2666 ng/mL		0.1500 - 5.0000	E05
AB30234	Microcystins ADDA	1.871 Abs [1.8375] {2.6 C'	0.2195 ng/mL [0.2423] {13.7 C'		0.1500 - 5.0000	F05
AB30235	Microcystins ADDA	2.391 Abs	0.0086 ng/mL	LOW	0.1500 - 5.0000	G05
AB30235	Microcystins ADDA	2.375 Abs [2.3830] {0.5 C'	0.0116 ng/mL [0.0100] {21.0 C'	Low [Low]	0.1500 - 5.0000	H05
20170808LB	Microcystins ADDA	2.252 Abs	0.0426 ng/mL	LOW	0.1500 - 5.0000	A06
20170808LB	Microcystins ADDA	2.534 Abs [2.3930] {8.3 C'	< 0.0000 ng/mL [0.0082]	Out(LR) [Low]	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.

David Jordan

Laboratory Analyst Signature

8/10/2017

Date