Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33649	Paynetown SRA	7/9/2018	7/11/2018	< 0.300
AB33650	Fairfax SRA	7/9/2018	7/11/2018	< 0.300
AB33651	Starve Hollow SRA	7/9/2018	7/11/2018	< 0.300
AB33652	Raccoon Lake SRA	7/9/2018	7/11/2018	< 0.300
AB33653	Starve Hollow (Field Duplicate)	7/9/2018	7/11/2018	< 0.300
AB33654	Field Blank	7/9/2018	7/11/2018	< 0.300
AB33642	Whitewater Memorial SP	7/9/2018	7/11/2018	< 0.300
AB33643	Mounds SRA	7/9/2018	7/11/2018	< 0.300
AB33643LD	Mounds (Lab Duplicate)	7/9/2018	7/11/2018	< 0.300
AB33645	Hardy Lake SRA	7/9/2018	7/11/2018	< 0.300
AB33648	Field Blank	7/9/2018	7/11/2018	< 0.300
AB33655	Quakertown SRA	7/9/2018	7/11/2018	< 0.300
AB33656	Deam Lake SRA	7/9/2018	7/11/2018	0.305
AB33669	Dog Park Lake	7/9/2018	7/11/2018	< 0.300
20180710LB	Lab Blank	7/10/2018	7/11/2018	< 0.300

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/11/2018 1:44:52 PM			
Std1	Microcystins ADDA	2.127 Abs	0.0112 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.245 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.856 Abs	0.1410 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.883 Abs	0.1227 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.484 Abs	0.5541 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.658 Abs	0.3186 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.207 Abs	1.1752 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.267 Abs	1.0060 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.030 Abs	1.8429 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.055 Abs	1.7298 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.656 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.628 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.531 Abs	0.4815 ng/mL			E02
Normal Control	Microcystins ADDA	1.360 Abs	0.7855 ng/mL			F02
AB33649	Microcystins ADDA	2.053 Abs	0.0349 ng/mL	LOW	0.1500 - 5.0000	G02
AB33649	Microcystins ADDA	2.053 Abs [2.0530] {0.0 C	0.0349 ng/mL [0.0349] {0.0 CV	Low [Low]	0.1500 - 5.0000	H02
AB33650	Microcystins ADDA	2.071 Abs	0.0282 ng/mL	LOW	0.1500 - 5.0000	A03
AB33650	Microcystins ADDA	2.054 Abs [2.0625] {0.6 C	0.0345 ng/mL [0.0313] {14.2 C	Low [Low]	0.1500 - 5.0000	B03
AB33651	Microcystins ADDA	1.883 Abs	0.1227 ng/mL	LOW	0.1500 - 5.0000	C03
AB33651	Microcystins ADDA	1.955 Abs [1.9190] {2.7 C	0.0798 ng/mL [0.1002] {30.0 C	Low [Low]	0.1500 - 5.0000	D03
AB33652	Microcystins ADDA	1.767 Abs	0.2109 ng/mL		0.1500 - 5.0000	E03
AB33652	Microcystins ADDA	1.731 Abs [1.7490] {1.5 C	0.2436 ng/mL [0.2269] {10.2 C		0.1500 - 5.0000	F03
AB33653	Microcystins ADDA	1.913 Abs	0.1038 ng/mL	LOW	0.1500 - 5.0000	G03
AB33653	Microcystins ADDA	1.927 Abs [1.9200] {0.5 C	0.0955 ng/mL [0.0996] {5.9 CV	Low [Low]	0.1500 - 5.0000	H03
AB33654	Microcystins ADDA	1.889 Abs	0.1188 ng/mL	LOW	0.1500 - 5.0000	A04
AB33654	Microcystins ADDA	1.874 Abs [1.8815] {0.6 C	0.1287 ng/mL [0.1237] {5.7 CV	Low [Low]	0.1500 - 5.0000	B04
AB33642	Microcystins ADDA	1.791 Abs	0.1906 ng/mL		0.1500 - 5.0000	C04
AB33642	Microcystins ADDA	1.745 Abs [1.7680] {1.8 C	0.2305 ng/mL [0.2100] {13.4 C		0.1500 - 5.0000	D04
AB33643	Microcystins ADDA	1.808 Abs	0.1768 ng/mL		0.1500 - 5.0000	E04
AB33643	Microcystins ADDA	1.800 Abs [1.8040] {0.3 C	0.1832 ng/mL [0.1800] {2.5 CV		0.1500 - 5.0000	F04
AB33643LD	Microcystins ADDA	1.834 Abs	0.1569 ng/mL		0.1500 - 5.0000	G04
AB33643LD	Microcystins ADDA	1.857 Abs [1.8455] {0.9 C	0.1403 ng/mL [0.1485] {7.9 CV	Low [Low]	0.1500 - 5.0000	H04
AB33645	Microcystins ADDA	1.762 Abs	0.2153 ng/mL		0.1500 - 5.0000	A05
AB33645	Microcystins ADDA	1.865 Abs [1.8135] {4.0 C	0.1348 ng/mL [0.1725] {32.5 C	LOW	0.1500 - 5.0000	B05
AB33648	Microcystins ADDA	1.829 Abs	0.1607 ng/mL		0.1500 - 5.0000	C05
AB33648	Microcystins ADDA	1.913 Abs [1.8710] {3.2 C	0.1038 ng/mL [0.1307] {30.4 C	Low [Low]	0.1500 - 5.0000	D05
AB33655	Microcystins ADDA	1.713 Abs	0.2609 ng/mL		0.1500 - 5.0000	E05
AB33655	Microcystins ADDA	1.838 Abs [1.7755] {5.0 C	0.1540 ng/mL [0.2035] {36.4 C		0.1500 - 5.0000	F05
AB33656	Microcystins ADDA	1.680 Abs	0.2947 ng/mL		0.1500 - 5.0000	G05
AB33656	Microcystins ADDA	1.661 Abs [1.6705] {0.8 C	0.3152 ng/mL [0.3048] {4.8 CV		0.1500 - 5.0000	H05
AB33669	Microcystins ADDA	1.928 Abs	0.0949 ng/mL	LOW	0.1500 - 5.0000	A06
AB33669	Microcystins ADDA	2.004 Abs [1.9660] {2.7 C	0.0555 ng/mL [0.0740] {37.0 C	Low [Low]	0.1500 - 5.0000	B06
20180710LB	Microcystins ADDA	1.893 Abs	0.1162 ng/mL	LOW	0.1500 - 5.0000	C06
20180710LB	Microcystins ADDA	1.884 Abs [1.8885] {0.3 C	0.1220 ng/mL [0.1191] {3.4 CV	Low [Low]	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.

David Jordan

Laboratory Analyst Signature

7/12/18

Date

Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA
Assay Mode: 4-Parameter Logistic Weight
Normal: by None 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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
7/11/2018 1:44:52 PM			
Std1	2.127 Abs	0.0112 ng/mL	A01
Std1	2.245 Abs	< 0.0000 ng/mL	B01
Std2	1.856 Abs	0.1410 ng/mL	C01
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Std6	0.656 Abs	> 5.0000 ng/mL	C02
Std6	0.628 Abs	> 5.0000 ng/mL	D02
7/11/2018 1:44:52 PM			
Normal Control	1.360 Abs	0.7855 ng/mL	F02
Normal Control	1.531 Abs	0.4815 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.186	0.083	3.82				
Std2	1.869	0.019	1.02	0.132	0.013	9.81	-12.00
Std3	1.571	0.123	7.83	0.436	0.167	38.16	9.00
Std4	1.237	0.042	3.43	1.091	0.120	10.97	9.10
Std5	1.043	0.018	1.70	1.786	0.080	4.48	-10.70
Std6	0.642	0.020	3.08				-100.00
Normal Control	1.446	0.121	8.36	0.633	0.215	33.93