Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33948	Quakertown SRA	8/7/2018	8/8/2018	< 0.300
AB33949	Mounds SRA	8/7/2018	8/8/2018	< 0.300
AB33950	Raccoon Lake SRA	8/6/2018	8/8/2018	< 0.300
AB33951	Deam Lake SRA	8/7/2018	8/8/2018	< 0.300
AB33952	Hardy Lake SRA	8/7/2018	8/8/2018	< 0.300
AB33953	Fairfax SRA	8/6/2018	8/8/2018	< 0.300
AB33954	Paynetown SRA	8/6/2018	8/8/2018	< 0.300
AB33955	Starve Hollow SRA	8/6/2018	8/8/2018	< 0.300
AB33956	Whitewater Memorial SP	8/7/2018	8/8/2018	< 0.300
AB33957	Raccoon Lake (Field Duplicate)	8/6/2018	8/8/2018	0.3441
AB33958	Field Blank	8/6/2018	8/8/2018	< 0.300
AB33959	Dog Park Lake	8/6/2018	8/8/2018	< 0.300
AB33954LD	Paynetown (Lab Duplicate)	8/6/2018	8/8/2018	< 0.300
20180807LB	Lab Blank	8/7/2018	8/8/2018	< 0.300

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/8/2018 4:01:42 PM			
Std1	Microcystins ADDA	2.180 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.183 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.003 Abs	0.1373 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.960 Abs	0.1710 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.712 Abs	0.3919 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.674 Abs	0.4315 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.372 Abs	0.8374 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.266 Abs	1.0394 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.927 Abs	2.1977 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.934 Abs	2.1592 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.716 Abs	4.1955 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.654 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.242 Abs	1.0917 ng/mL			E02
Normal Control	Microcystins ADDA	1.450 Abs	0.7128 ng/mL			F02
AB33948	Microcystins ADDA	1.959 Abs	0.1718 ng/mL		0.1500 - 5.0000	G02
AB33948	Microcystins ADDA	1.833 Abs [1.8960] {4.7 CV}	0.2773 ng/mL [0.2231] {33.2 C		0.1500 - 5.0000	H02
AB33949	Microcystins ADDA	1.901 Abs	0.2189 ng/mL		0.1500 - 5.0000	A03
AB33949	Microcystins ADDA	1.972 Abs [1.9365] {2.6 CV}	0.1615 ng/mL [0.1898] {21.3 C		0.1500 - 5.0000	B03
AB33950	Microcystins ADDA	1.826 Abs	0.2835 ng/mL		0.1500 - 5.0000	C03
AB33950	Microcystins ADDA	1.808 Abs [1.8170] {0.7 CV}	0.2997 ng/mL [0.2916] {3.9 CV		0.1500 - 5.0000	D03
AB33951	Microcystins ADDA	1.932 Abs	0.1934 ng/mL		0.1500 - 5.0000	E03
AB33951	Microcystins ADDA	2.054 Abs [1.9930] {4.3 CV}	0.0982 ng/mL [0.1450] {46.2 C	Low [Low]	0.1500 - 5.0000	F03
AB33952	Microcystins ADDA	1.969 Abs	0.1638 ng/mL		0.1500 - 5.0000	G03
AB33952	Microcystins ADDA	1.996 Abs [1.9825] {1.0 CV}	0.1427 ng/mL [0.1532] {9.7 CV	LOW	0.1500 - 5.0000	H03
AB33953	Microcystins ADDA	1.894 Abs	0.2247 ng/mL		0.1500 - 5.0000	A04
AB33953	Microcystins ADDA	1.919 Abs [1.9065] {0.9 CV}	0.2040 ng/mL [0.2143] {6.8 CV		0.1500 - 5.0000	B04
AB33954	Microcystins ADDA	1.816 Abs	0.2925 ng/mL		0.1500 - 5.0000	C04
AB33954	Microcystins ADDA	1.912 Abs [1.8640] {3.6 CV}	0.2098 ng/mL [0.2502] {23.3 C		0.1500 - 5.0000	D04
AB33955	Microcystins ADDA	1.834 Abs	0.2764 ng/mL		0.1500 - 5.0000	E04
AB33955	Microcystins ADDA	1.979 Abs [1.9065] {5.4 CV}	0.1560 ng/mL [0.2143] {39.4 C		0.1500 - 5.0000	F04
AB33956	Microcystins ADDA	1.852 Abs	0.2606 ng/mL		0.1500 - 5.0000	G04
AB33956	Microcystins ADDA	1.895 Abs [1.8735] {1.6 CV}	0.2239 ng/mL [0.2421] {10.7 C		0.1500 - 5.0000	H04
AB33957	Microcystins ADDA	1.767 Abs	0.3379 ng/mL		0.1500 - 5.0000	A05
AB33957	Microcystins ADDA	1.754 Abs [1.7605] {0.5 CV}	0.3503 ng/mL [0.3441] {2.5 CV		0.1500 - 5.0000	B05
AB33958	Microcystins ADDA	1.900 Abs	0.2197 ng/mL		0.1500 - 5.0000	C05
AB33958	Microcystins ADDA	1.932 Abs [1.9160] {1.2 CV}	0.1934 ng/mL [0.2065] {9.0 CV		0.1500 - 5.0000	D05
AB33959	Microcystins ADDA	1.802 Abs	0.3052 ng/mL		0.1500 - 5.0000	E05
AB33959	Microcystins ADDA	1.928 Abs [1.8650] {4.8 CV}	0.1967 ng/mL [0.2493] {30.6 C		0.1500 - 5.0000	F05
AB33954LD	Microcystins ADDA	1.857 Abs	0.2562 ng/mL		0.1500 - 5.0000	G05
AB33954LD	Microcystins ADDA	1.919 Abs [1.8880] {2.3 CV}	0.2040 ng/mL [0.2298] {16.0 C		0.1500 - 5.0000	H05
20180807LB	Microcystins ADDA	1.965 Abs	0.1670 ng/mL		0.1500 - 5.0000	A06
20180807LB	Microcystins ADDA	1.874 Abs [1.9195] {3.4 CV}	0.2416 ng/mL [0.2036] {25.8 C		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

8/8/2018

Date

Assay Calibration Report

Assay Information

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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/8/2018 4:01:42 PM			
Std1	2.180 Abs	< 0.0000 ng/mL	A01
Std1	2.183 Abs	< 0.0000 ng/mL	B01
Std2	2.003 Abs	0.1373 ng/mL	C01
Std2	1.960 Abs	0.1710 ng/mL	D01
Std3	1.712 Abs	0.3919 ng/mL	E01
Std3	1.674 Abs	0.4315 ng/mL	F01
Std4	1.372 Abs	0.8374 ng/mL	G01
Std4	1.266 Abs	1.0394 ng/mL	H01
Std5	0.927 Abs	2.1977 ng/mL	A02
Std5	0.934 Abs	2.1592 ng/mL	B02
Std6	0.716 Abs	4.1955 ng/mL	C02
Std6	0.654 Abs	> 5.0000 ng/mL	D02
8/8/2018 4:01:42 PM			
Normal Control	1.450 Abs	0.7128 ng/mL	F02
Normal Control	1.242 Abs	1.0917 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.181	0.002	0.10				
Std2	1.982	0.030	1.53	0.154	0.024	15.46	2.67
Std3	1.693	0.027	1.59	0.412	0.028	6.80	3.00
Std4	1.319	0.075	5.68	0.938	0.143	15.22	-6.20
Std5	0.931	0.005	0.53	2.178	0.027	1.25	8.90
Std6	0.685	0.044	6.40				-100.00
Normal Control	1.346	0.147	10.93	0.902	0.268	29.69