Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33731	Fairfax SRA	7/23/2018	7/25/2018	< 0.300
AB33732	Hardy Lake SRA	7/23/2018	7/25/2018	< 0.300
AB33733	Paynetown SRA	7/23/2018	7/25/2018	< 0.300
AB33734	Quakertown SRA	7/24/2018	7/25/2018	< 0.300
AB33735	Raccoon Lake SRA	7/23/2018	7/25/2018	< 0.300
AB33736	Starve Hollow SRA	7/23/2018	7/25/2018	< 0.300
AB33737	Whitewater Memorial SP	7/24/2018	7/25/2018	< 0.300
AB33738	Raccoon Lake (Field Duplicate)	7/23/2018	7/25/2018	< 0.300
AB33739	Field Blank	7/23/2018	7/25/2018	< 0.300
AB33740	Dog Park Lake	7/23/2018	7/25/2018	< 0.300
AB33755	Deam Lake SRA	7/24/2018	7/25/2018	< 0.300
AB33731LD	Fairfax (Lab Duplicate)	7/23/2018	7/25/2018	< 0.300
20180724LB	Lab Blank	7/24/2018	7/25/2018	< 0.300

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/25/2018 6:41:08 PM			
Std1	Microcystins ADDA	2.098 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.012 Abs	0.0073 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.689 Abs	0.1518 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.693 Abs	0.1491 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.345 Abs	0.5185 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.527 Abs	0.2866 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.002 Abs	1.4545 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.209 Abs	0.7806 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.916 Abs	1.9125 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.927 Abs	1.8451 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.661 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.654 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.332 Abs	0.6113 ng/mL			E02
Normal Control	Microcystins ADDA	1.236 Abs	0.8311 ng/mL			F02
AB33731	Microcystins ADDA	1.943 Abs	0.0190 ng/mL	LOW	0.1500 - 5.0000	G02
AB33731	Microcystins ADDA	1.960 Abs [1.9515] {0.6 C	0.0145 ng/mL [0.0167] {19.0 C'	Low [Low]	0.1500 - 5.0000	H02
AB33732	Microcystins ADDA	1.767 Abs	0.0951 ng/mL	LOW	0.1500 - 5.0000	A03
AB33732	Microcystins ADDA	1.723 Abs [1.7450] {1.8 C	0.1233 ng/mL [0.1087] {18.3 C'	Low [Low]	0.1500 - 5.0000	B03
AB33733	Microcystins ADDA	1.842 Abs	0.0559 ng/mL	LOW	0.1500 - 5.0000	C03
AB33733	Microcystins ADDA	1.861 Abs [1.8515] {0.7 C	0.0476 ng/mL [0.0516] {11.3 C'	Low [Low]	0.1500 - 5.0000	D03
AB33734	Microcystins ADDA	1.736 Abs	0.1146 ng/mL	LOW	0.1500 - 5.0000	E03
AB33734	Microcystins ADDA	1.765 Abs [1.7505] {1.2 C	0.0963 ng/mL [0.1052] {12.3 C'	Low [Low]	0.1500 - 5.0000	F03
AB33735	Microcystins ADDA	1.768 Abs	0.0946 ng/mL	LOW	0.1500 - 5.0000	G03
AB33735	Microcystins ADDA	1.835 Abs [1.8015] {2.6 C	0.0591 ng/mL [0.0758] {32.7 C'	Low [Low]	0.1500 - 5.0000	H03
AB33736	Microcystins ADDA	1.677 Abs	0.1572 ng/mL		0.1500 - 5.0000	A04
AB33736	Microcystins ADDA	1.885 Abs [1.7810] {8.3 C	0.0380 ng/mL [0.0870] {86.4 C'	Low [Low]	0.1500 - 5.0000	B04
AB33737	Microcystins ADDA	1.926 Abs	0.0239 ng/mL	LOW	0.1500 - 5.0000	C04
AB33737	Microcystins ADDA	1.726 Abs [1.8260] {7.7 C	0.1213 ng/mL [0.0634] {94.9 C'	Low [Low]	0.1500 - 5.0000	D04
AB33738	Microcystins ADDA	1.697 Abs	0.1419 ng/mL	LOW	0.1500 - 5.0000	E04
AB33738	Microcystins ADDA	1.585 Abs [1.6410] {4.8 C	0.2403 ng/mL [0.1872] {36.4 C'		0.1500 - 5.0000	F04
AB33739	Microcystins ADDA	2.016 Abs	0.0035 ng/mL	LOW	0.1500 - 5.0000	G04
AB33739	Microcystins ADDA	1.955 Abs [1.9855] {2.2 C	0.0158 ng/mL [0.0087] {90.1 C'	Low [Low]	0.1500 - 5.0000	H04
AB33740	Microcystins ADDA	1.780 Abs	0.0876 ng/mL	LOW	0.1500 - 5.0000	A05
AB33740	Microcystins ADDA	1.913 Abs [1.8465] {5.1 C	0.0281 ng/mL [0.0539] {72.7 C'	Low [Low]	0.1500 - 5.0000	B05
AB33755	Microcystins ADDA	1.991 Abs	0.0077 ng/mL	LOW	0.1500 - 5.0000	C05
AB33755	Microcystins ADDA	1.986 Abs [1.9885] {0.2 C	0.0086 ng/mL [0.0081] {7.8 CV	Low [Low]	0.1500 - 5.0000	D05
AB33731LD	Microcystins ADDA	1.846 Abs	0.0541 ng/mL	LOW	0.1500 - 5.0000	E05
AB33731LD	Microcystins ADDA	1.769 Abs [1.8075] {3.0 C	0.0940 ng/mL [0.0726] {38.1 C'	Low [Low]	0.1500 - 5.0000	F05
20180724LB	Microcystins ADDA	1.829 Abs	0.0619 ng/mL	LOW	0.1500 - 5.0000	G05
20180724LB	Microcystins ADDA	1.874 Abs [1.8515] {1.7 C	0.0423 ng/mL [0.0516] {26.6 C'	Low [Low]	0.1500 - 5.0000	H05

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

7/26/18

Date

Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA
Assay Mode: 4-Parameter Logistic Weight
Normal: by Mode 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
7/25/2018 6:41:08 PM			
Std1	2.098 Abs	< 0.0000 ng/mL	A01
Std1	2.012 Abs	0.0041 ng/mL	B01
Std2	1.689 Abs	0.1479 ng/mL	C01
Std2	1.693 Abs	0.1449 ng/mL	D01
Std3	1.345 Abs	0.5856 ng/mL	E01
Std3	1.527 Abs	0.3048 ng/mL	F01
Std4	1.209 Abs	0.9038 ng/mL	H01
Std5	0.916 Abs	2.1813 ng/mL	A02
Std5	0.927 Abs	2.1104 ng/mL	B02
Std6	0.661 Abs	4.8631 ng/mL	C02
Std6	0.654 Abs	4.9792 ng/mL	D02
7/25/2018 6:41:08 PM			
Normal Control	1.236 Abs	0.8311 ng/mL	F02
Normal Control	1.332 Abs	0.6113 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.055	0.061	2.96				
Std2	1.691	0.003	0.17	0.146	0.002	1.45	-2.67
Std3	1.436	0.129	8.96	0.445	0.199	44.60	11.25
Std4	1.209			0.904			-9.60
Std5	0.921	0.008	0.84	2.146	0.050	2.34	7.30
Std6	0.658	0.005	0.75	4.921	0.082	1.67	-1.58
Normal Control	1.284	0.068	5.29	0.721	0.155	21.55