Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB26643	Fairfax SRA	8/22/2016	8/24/2016	< 0.15
AB26644	Paynetown SRA	8/22/2016	8/24/2016	< 0.15
AB26645	Starve Hollow SRA	8/22/2016	8/24/2016	< 0.15
AB26646	Deam Lake SRA	8/22/2016	8/24/2016	< 0.15
AB26646LD	Deam Lake (Lab Duplicate)	8/22/2016	8/24/2016	< 0.15
AB26647	Hardy Lake SRA	8/22/2016	8/24/2016	< 0.15
AB26651	Fairfax (Field Duplicate)	8/22/2016	8/24/2016	< 0.15
AB26652	Field Blank	8/22/2016	8/24/2016	< 0.15
AB26648	Quakertown SRA	8/23/2016	8/24/2016	< 0.15
AB26649	Mounds SRA	8/23/2016	8/24/2016	< 0.15
AB26650	Raccoon Lake SRA	8/23/2016	8/24/2016	< 0.15
AB26688	Whitewater Memorial SP	8/23/2016	8/24/2016	< 0.15
20160822LB	Lab Blank	8/22/2016	8/24/2016	< 0.15

Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA
Assay Mode: 4-Parameter Logistic
Normal: 0.1500 - 5.0000

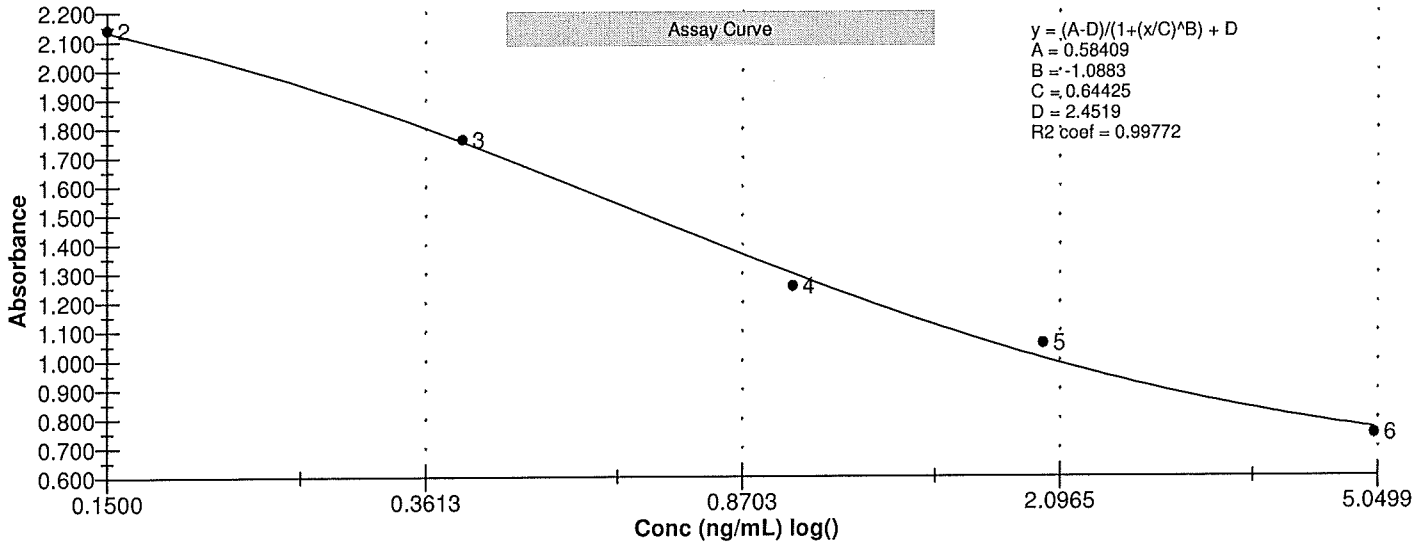
Units: ng/mL
# of decimals: 4
Assay Description:

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
8/24/2016 3:45:01 PM			
Std1	2.448 Abs	0.0022 ng/mL	A01
Std2	2.172 Abs	0.1307 ng/mL	C01
Std2	2.110 Abs	0.1630 ng/mL	D01
Std3	1.752 Abs	0.4025 ng/mL	E01
Std3	1.774 Abs	0.3841 ng/mL	F01
Std4	1.256 Abs	1.0941 ng/mL	G01
Std5	1.057 Abs	1.7410 ng/mL	A02
Std6	0.746 Abs	> 5.0000 ng/mL	C02
8/24/2016 3:45:01 PM			
Normal Control	1.620 Abs	0.5265 ng/mL	F02
Normal Control	1.537 Abs	0.6205 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.448			0.002			
Std2	2.141	0.044	2.05	0.147	0.023	15.55	-2.00
Std3	1.763	0.016	0.88	0.393	0.013	3.31	-1.75
Std4	1.256			1.094			9.40
Std5	1.057			1.741			-12.95
Std6	0.746						-100.00
Normal Control	1.579	0.059	3.72	0.574	0.066	11.59	



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Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/24/2016 3:45:01 PM			
Std1	Microcystins ADDA	2.448 Abs	0.0235 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.572 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.172 Abs	0.1358 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.110 Abs	0.1656 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.752 Abs	0.3941 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.774 Abs	0.3763 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.256 Abs	1.0860 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.232 Abs	1.1455 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.057 Abs	1.7575 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.070 Abs	1.6970 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.746 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.772 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.537 Abs	0.6205 ng/mL			E02
Normal Control	Microcystins ADDA	1.620 Abs	0.5265 ng/mL			F02
AB26643	Microcystins ADDA	2.538 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB26643	Microcystins ADDA	2.530 Abs [2.5340] {0.2 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H02
AB26644	Microcystins ADDA	2.311 Abs	0.0644 ng/mL	LOW	0.1500 - 5.0000	A03
AB26644	Microcystins ADDA	2.348 Abs [2.3295] {1.1 C	0.0477 ng/mL [0.0560] {21.1 C	Low [Low]	0.1500 - 5.0000	B03
AB26645	Microcystins ADDA	2.471 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C03
AB26645	Microcystins ADDA	2.370 Abs [2.4205] {3.0 C	0.0379 ng/mL [0.0153]	Low [Low]	0.1500 - 5.0000	D03
AB26646	Microcystins ADDA	2.439 Abs	0.0066 ng/mL	LOW	0.1500 - 5.0000	E03
AB26646	Microcystins ADDA	2.510 Abs [2.4745] {2.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F03
AB26646LD	Microcystins ADDA	2.480 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G03
AB26646LD	Microcystins ADDA	2.501 Abs [2.4905] {0.6 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H03
AB26647	Microcystins ADDA	2.356 Abs	0.0441 ng/mL	LOW	0.1500 - 5.0000	A04
AB26647	Microcystins ADDA	2.412 Abs [2.3840] {1.7 C	0.0192 ng/mL [0.0316] {55.6 C	Low [Low]	0.1500 - 5.0000	B04
AB26648	Microcystins ADDA	2.404 Abs	0.0227 ng/mL	LOW	0.1500 - 5.0000	C04
AB26648	Microcystins ADDA	2.380 Abs [2.3920] {0.7 C	0.0335 ng/mL [0.0281] {27.2 C	Low [Low]	0.1500 - 5.0000	D04
AB26649	Microcystins ADDA	2.339 Abs	0.0518 ng/mL	LOW	0.1500 - 5.0000	E04
AB26649	Microcystins ADDA	2.293 Abs [2.3160] {1.4 C	0.0726 ng/mL [0.0621] {23.6 C	Low [Low]	0.1500 - 5.0000	F04
AB26650	Microcystins ADDA	2.504 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G04
AB26650	Microcystins ADDA	2.503 Abs [2.5035] {0.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H04
AB26651	Microcystins ADDA	2.432 Abs	0.0100 ng/mL	LOW	0.1500 - 5.0000	A05
AB26651	Microcystins ADDA	2.565 Abs [2.4985] {3.8 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	B05
AB26652	Microcystins ADDA	2.559 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
AB26652	Microcystins ADDA	2.523 Abs [2.5410] {1.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	D05
AB26688	Microcystins ADDA	2.519 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E05
AB26688	Microcystins ADDA	2.578 Abs [2.5485] {1.6 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F05
20160822LB	Microcystins ADDA	2.555 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05
20160822LB	Microcystins ADDA	2.484 Abs [2.5195] {2.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	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.

Laboratory Analyst Signature

8/25/16

Date