



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22178	Farifax SRA	7/6/2015	7/8/2015	< 0.150
AB22179	Paynetown SRA	7/6/2015	7/8/2015	< 0.150
AB22180	Starve Hollow SRA	7/6/2015	7/8/2015	< 0.150
AB22181	Deam Lake SRA	7/6/2015	7/8/2015	< 0.150
AB22182	Hardy Lake SRA	7/6/2015	7/9/2015	7.83*
AB22183	Raccoon Lake SRA	7/7/2015	7/8/2015	< 0.150
AB22184	Whitewater Memorial SP	7/7/2015	7/8/2015	< 0.150
AB22185	Quakertown SRA	7/7/2015	7/8/2015	< 0.150
AB22186	Mounds SRA	7/7/2015	7/8/2015	< 0.150
AB22187	Starve Hollow (Field Duplicate)	7/6/2015	7/8/2015	< 0.150
AB22188	Field Blank	7/6/2015	7/8/2015	< 0.150
AB22178LD	Farifax (Lab Duplicate)	7/6/2015	7/8/2015	< 0.150
20150706LB	Lab Blank	7/6/2015	7/8/2015	< 0.150

* Sample AB22182 result was above the 5.0 ppm upper limit.

The sample was diluted 3X and re-run on 7/9/15 in triplicate.

The mean result was 7.83 ppb and the Standard Deviation was 1.53.



Assay Calibration Report

Assay Information

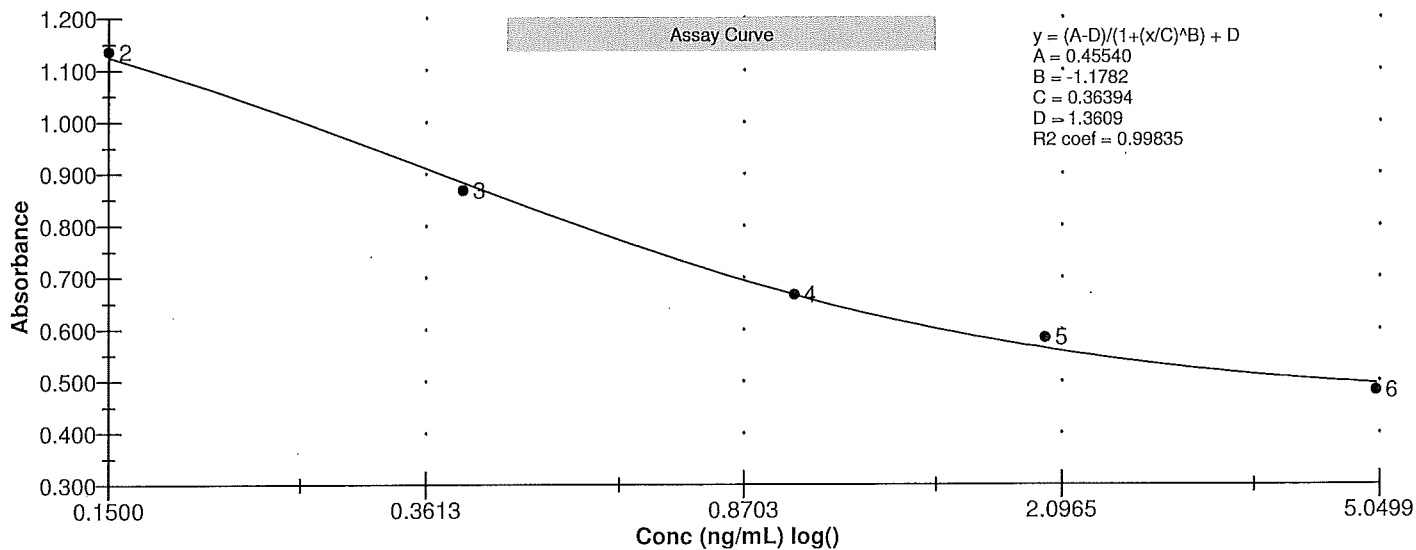
Assay Name: Microcystins ADDA Units: ng/mL
 Assay Mode: 4-Parameter Logistic # of decimals: 4
 Normal: 0.1500 - 5.0000 Assay Description:

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
7/8/2015 11:37:28 AM			
Std1	1.344 Abs	0.0126 ng/mL	A01
Std1	1.372 Abs	< 0.0000 ng/mL	B01
Std2	1.119 Abs	0.1545 ng/mL	C01
Std2	1.153 Abs	0.1302 ng/mL	D01
Std3	0.883 Abs	0.4000 ng/mL	E01
Std3	0.854 Abs	0.4462 ng/mL	F01
Std4	0.658 Abs	1.0465 ng/mL	G01
Std4	0.676 Abs	0.9520 ng/mL	H01
Std5	0.554 Abs	2.1650 ng/mL	A02
Std5	0.612 Abs	1.3740 ng/mL	B02
Std6	0.497 Abs	4.7700 ng/mL	C02
Std6	0.465 Abs	> 5.0000 ng/mL	D02
7/8/2015 11:37:28 AM			
Normal Control	0.750 Abs	0.6760 ng/mL	F02
Normal Control	0.799 Abs	0.5525 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.358	0.020	1.46				
Std2	1.136	0.024	2.12	0.142	0.017	12.07	-5.33
Std3	0.868	0.021	2.36	0.423	0.033	7.72	5.75
Std4	0.667	0.013	1.91	0.999	0.067	6.69	-0.10
Std5	0.583	0.041	7.03	1.770	0.559	31.61	-11.50
Std6	0.481	0.023	4.70				-100.00
Normal Control	0.775	0.035	4.47	0.614	0.087	14.22	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/8/2015 11:37:28 AM						
Std1	Microcystins ADDA	1.344 Abs	0.0126 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.372 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.119 Abs	0.1545 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.153 Abs	0.1302 ng/mL		0.1500	D01
Std3	Microcystins ADDA	0.883 Abs	0.4000 ng/mL		0.4000	E01
Std3	Microcystins ADDA	0.854 Abs	0.4462 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.658 Abs	1.0465 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.676 Abs	0.9520 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.554 Abs	2.1650 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.612 Abs	1.3740 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.497 Abs	4.7700 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.465 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.799 Abs	0.5525 ng/mL			E02
Normal Control	Microcystins ADDA	0.750 Abs	0.6760 ng/mL			F02
AB22178	Microcystins ADDA	1.273 Abs	0.0548 ng/mL	LOW	0.1500 - 5.0000	G02
AB22178	Microcystins ADDA	1.404 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H02
AB22179	Microcystins ADDA	1.223 Abs	0.0847 ng/mL	LOW	0.1500 - 5.0000	A03
AB22179	Microcystins ADDA	1.366 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B03
AB22180	Microcystins ADDA	1.369 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C03
AB22180	Microcystins ADDA	1.383 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D03
AB22181	Microcystins ADDA	1.495 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB22181	Microcystins ADDA	1.439 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F03
AB22182	Microcystins ADDA	0.410 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G03
AB22182	Microcystins ADDA	0.422 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H03
AB22183	Microcystins ADDA	1.231 Abs	0.0798 ng/mL	LOW	0.1500 - 5.0000	A04
AB22183	Microcystins ADDA	1.343 Abs	0.0132 ng/mL	LOW	0.1500 - 5.0000	B04
AB22184	Microcystins ADDA	1.387 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C04
AB22184	Microcystins ADDA	1.405 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D04
AB22185	Microcystins ADDA	1.292 Abs	0.0437 ng/mL	LOW	0.1500 - 5.0000	E04
AB22185	Microcystins ADDA	1.466 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F04
AB22186	Microcystins ADDA	1.149 Abs	0.1330 ng/mL	LOW	0.1500 - 5.0000	G04
AB22186	Microcystins ADDA	1.200 Abs	0.0991 ng/mL	LOW	0.1500 - 5.0000	H04
AB22187	Microcystins ADDA	1.381 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
AB22187	Microcystins ADDA	1.406 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B05
AB22188	Microcystins ADDA	1.499 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
AB22188	Microcystins ADDA	1.495 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D05
AB22178LD	Microcystins ADDA	1.361 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E05
AB22178LD	Microcystins ADDA	1.427 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F05
20150706LB	Microcystins ADDA	1.573 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05
20150706LB	Microcystins ADDA	1.500 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H05
Check Sample A	Microcystins ADDA	1.340 Abs	0.0151 ng/mL	LOW	0.1500 - 5.0000	A06
Check Sample A	Microcystins ADDA	1.448 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B06
Check Sample B	Microcystins ADDA	0.654 Abs	1.0695 ng/mL		0.1500 - 5.0000	C06
Check Sample B	Microcystins ADDA	0.582 Abs	1.7000 ng/mL		0.1500 - 5.0000	D06
Check Sample C	Microcystins ADDA	0.399 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E06
Check Sample C	Microcystins ADDA	0.426 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F06

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

7/8/15
Date



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/9/2015 10:47:11 AM						
Std1	Microcystin ADDA 3X	1.313 Abs	0.056 ng/mL		0.000	A01
Std1	Microcystin ADDA 3X	1.325 Abs	0.010 ng/mL		0.000	B01
Std2	Microcystin ADDA 3X	1.135 Abs	0.481 ng/mL		0.600	C01
Std2	Microcystin ADDA 3X	1.113 Abs	0.534 ng/mL		0.600	D01
Std3	Microcystin ADDA 3X	0.858 Abs	1.377 ng/mL		1.200	E01
Std3	Microcystin ADDA 3X	0.829 Abs	1.523 ng/mL		1.200	F01
Std4	Microcystin ADDA 3X	0.707 Abs	2.400 ng/mL		3.000	G01
Std4	Microcystin ADDA 3X	0.679 Abs	2.707 ng/mL		3.000	H01
Std5	Microcystin ADDA 3X	0.523 Abs	7.665 ng/mL		6.000	A02
Std5	Microcystin ADDA 3X	0.576 Abs	4.767 ng/mL		6.000	B02
Std6	Microcystin ADDA 3X	0.471 Abs	> 15.000 ng/mL		15.000	C02
Std6	Microcystin ADDA 3X	0.470 Abs	> 15.000 ng/mL		15.000	D02
Normal Control	Microcystin ADDA 3X	0.834 Abs	1.527 ng/mL			E02
Normal Control	Microcystin ADDA 3X	0.808 Abs	1.676 ng/mL			F02
AB22182	Microcystin ADDA 3X	0.531 Abs	7.080 ng/mL		0.450 - 15.000	G02
AB22182	Microcystin ADDA 3X	0.572 Abs	5.040 ng/mL		0.450 - 15.000	H02
AB22182(2)	Microcystin ADDA 3X	0.510 Abs	8.940 ng/mL		0.450 - 15.000	A03
AB22182(2)	Microcystin ADDA 3X	0.520 Abs	7.950 ng/mL		0.450 - 15.000	B03
AB22182(3)	Microcystin ADDA 3X	0.502 Abs	9.945 ng/mL		0.450 - 15.000	C03
AB22182(3)	Microcystin ADDA 3X	0.519 Abs	8.040 ng/mL		0.450 - 15.000	D03
20150709bld41LB	Microcystin ADDA 3X	1.442 Abs	< 0.000 ng/mL	Out(LR)	0.450 - 15.000	E03
20150709bld41LB	Microcystin ADDA 3X	1.353 Abs	< 0.000 ng/mL	Out(LR)	0.450 - 15.000	F03

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Laboratory Analyst Signature

7/9/15

Date