



Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22178	Fairfax SRA	7/6/2015	7/8/2015	<10
AB22179	Paynetown SRA	7/6/2015	7/8/2015	<10
AB22180	Starve Hollow SRA	7/6/2015	7/8/2015	<10
AB22181	Deam Lake SRA	7/6/2015	7/8/2015	<10
AB22182	Hardy Lake SRA	7/6/2015	7/8/2015	<10
AB22183	Raccoon Lake SRA	7/7/2015	7/8/2015	<10
AB22184	Whitewater Memorial SP	7/7/2015	7/8/2015	<10
AB22185	Quakertown SRA	7/7/2015	7/8/2015	<10
AB22186	Mounds SRA	7/7/2015	7/8/2015	13.87
AB22187	Starve Hollow (Field Duplicate)	7/6/2015	7/8/2015	<10
AB22188	Field Blank	7/6/2015	7/8/2015	<10
AB22178LD	Fairfax SRA (Lab Duplicate)	7/6/2015	7/8/2015	<10
20150706LB	Lab Blank	7/6/2015	7/8/2015	<10



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/8/2015 3:10:32 PM						
Std1	ANATOXIN-A 1X	1.954 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	1.870 Abs	0.000 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	1.791 Abs	0.107 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.416 Abs	8.600 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.418 Abs	8.485 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.197 Abs	29.015 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.181 Abs	31.410 ng/mL		35.000	H01
Std4	ANATOXIN-A 1X	0.871 Abs	130.650 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.829 Abs	157.400 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	0.833 Abs	154.650 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.563 Abs	> 500.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.605 Abs	436.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.590 Abs	468.450 ng/mL		500.000	G02
AB22178	ANATOXIN-A 1X	1.901 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB22178	ANATOXIN-A 1X	2.056 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB22178	ANATOXIN-A 1X	1.869 Abs [1.9420] {5.2 C	0.000 ng/mL [< 0.000] {42.8 C\	Low [Out(LR)]	10.000 - 500.000	B03
AB22179	ANATOXIN-A 1X	1.854 Abs	0.019 ng/mL	LOW	10.000 - 500.000	C03
AB22179	ANATOXIN-A 1X	1.842 Abs	0.049 ng/mL	LOW	10.000 - 500.000	D03
AB22179	ANATOXIN-A 1X	1.665 Abs [1.7870] {5.9 C	1.929 ng/mL [0.345] {164.4 CV	Low [Low]	10.000 - 500.000	E03
AB22180	ANATOXIN-A 1X	1.716 Abs	1.100 ng/mL	LOW	10.000 - 500.000	F03
AB22180	ANATOXIN-A 1X	1.573 Abs	4.135 ng/mL	LOW	10.000 - 500.000	G03
AB22180	ANATOXIN-A 1X	1.684 Abs [1.6577] {4.5 C	1.590 ng/mL [2.069] {71.6 CV}	Low [Low]	10.000 - 500.000	H03
AB22181	ANATOXIN-A 1X	1.883 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A04
AB22181	ANATOXIN-A 1X	1.692 Abs	1.459 ng/mL	LOW	10.000 - 500.000	B04
AB22181	ANATOXIN-A 1X	1.751 Abs [1.7753] {5.5 C	0.674 ng/mL [0.440] {52.0 CV}	Low [Low]	10.000 - 500.000	C04
AB22182	ANATOXIN-A 1X	1.651 Abs	2.200 ng/mL	LOW	10.000 - 500.000	D04
AB22182	ANATOXIN-A 1X	1.592 Abs	3.595 ng/mL	LOW	10.000 - 500.000	E04
AB22182	ANATOXIN-A 1X	1.597 Abs [1.6133] {2.0 C	3.460 ng/mL [3.045] {24.9 CV}	Low [Low]	10.000 - 500.000	F04
AB22187	ANATOXIN-A 1X	1.518 Abs	5.985 ng/mL	LOW	10.000 - 500.000	G04
AB22187	ANATOXIN-A 1X	1.462 Abs	8.365 ng/mL	LOW	10.000 - 500.000	H04
AB22187	ANATOXIN-A 1X	2.070 Abs [1.6833] {20.0	< 0.000 ng/mL [1.600] {23.5 C\	Out(LR) [Low]	10.000 - 500.000	A05
AB22188	ANATOXIN-A 1X	1.888 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	B05
AB22188	ANATOXIN-A 1X	1.777 Abs	0.425 ng/mL	LOW	10.000 - 500.000	C05
AB22188	ANATOXIN-A 1X	1.836 Abs [1.8337] {3.0 C	0.069 ng/mL [0.078] {101.9 CV	Low [Low]	10.000 - 500.000	D05
20150706LB	ANATOXIN-A 1X	1.801 Abs	0.245 ng/mL	LOW	10.000 - 500.000	E05
20150706LB	ANATOXIN-A 1X	1.587 Abs	3.735 ng/mL	LOW	10.000 - 500.000	F05
20150706LB	ANATOXIN-A 1X	1.626 Abs [1.6713] {6.8 C	2.744 ng/mL [1.810] {80.2 CV}	Low [Low]	10.000 - 500.000	G05
AB22178LD	ANATOXIN-A 1X	1.801 Abs	0.245 ng/mL	LOW	10.000 - 500.000	H05
AB22178LD	ANATOXIN-A 1X	1.812 Abs	0.179 ng/mL	LOW	10.000 - 500.000	A06
AB22178LD	ANATOXIN-A 1X	1.538 Abs [1.7170] {9.0 C	5.260 ng/mL [1.085] {153.8 CV	Low [Low]	10.000 - 500.000	B06
AB22183	ANATOXIN-A 1X	1.737 Abs	0.830 ng/mL	LOW	10.000 - 500.000	C06
AB22183	ANATOXIN-A 1X	1.721 Abs	1.033 ng/mL	LOW	10.000 - 500.000	D06
AB22183	ANATOXIN-A 1X	1.562 Abs [1.6733] {5.8 C	4.470 ng/mL [1.775] {96.9 CV}	Low [Low]	10.000 - 500.000	E06
AB22184	ANATOXIN-A 1X	1.645 Abs	2.325 ng/mL	LOW	10.000 - 500.000	F06
AB22184	ANATOXIN-A 1X	1.718 Abs	1.073 ng/mL	LOW	10.000 - 500.000	G06
AB22184	ANATOXIN-A 1X	1.799 Abs [1.7207] {4.5 C	0.259 ng/mL [1.035] {85.4 CV}	Low [Low]	10.000 - 500.000	H06
AB22185	ANATOXIN-A 1X	1.704 Abs	1.273 ng/mL	LOW	10.000 - 500.000	A07
AB22185	ANATOXIN-A 1X	1.432 Abs	9.880 ng/mL	LOW	10.000 - 500.000	B07

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

7/9/2015

Date



Test Report

Test Information						
Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
AB22185	ANATOXIN-A 1X	1.459 Abs [1.5317] {9.8 C	8.510 ng/mL [5.485] {70.6 CV}	Low [Low]	10.000 - 500.000	C07
AB22186	ANATOXIN-A 1X	1.288 Abs	20.215 ng/mL		10.000 - 500.000	D07
AB22186	ANATOXIN-A 1X	1.396 Abs	11.955 ng/mL		10.000 - 500.000	E07
AB22186	ANATOXIN-A 1X	1.416 Abs [1.3667] {5.0 C	10.765 ng/mL [13.870] {36.0 C		10.000 - 500.000	F07

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

7/9/2015

Date



Assay Calibration Report

Assay Information

Assay Name: ANATOXIN-A 1X Units: ng/mL
Assay Mode: 4-Parameter Logistic # of decimals: 3
Normal: 10.000 - 500.000 Assay Description:

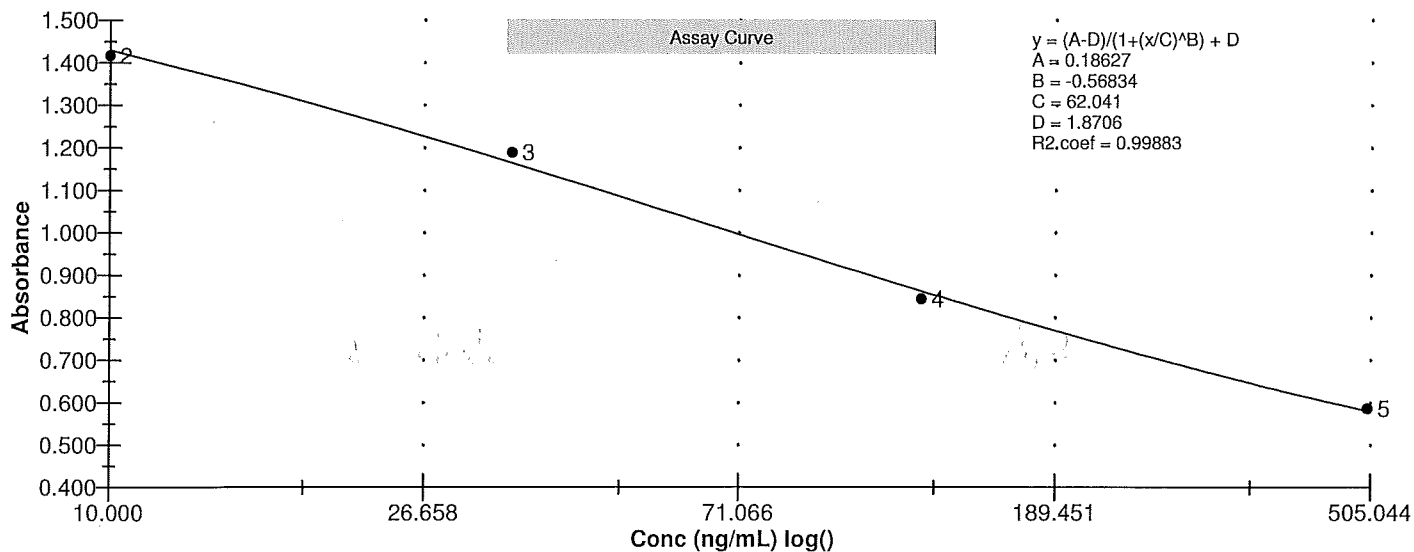
Standards:

Std1, Concentration = 0.000, Minimum number to use: 3
Std2, Concentration = 10.000, Minimum number to use: 3
Std3, Concentration = 35.000, Minimum number to use: 3
Std4, Concentration = 125.000, Minimum number to use: 3
Std5, Concentration = 500.000, Minimum number to use: 3
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 3:10:32 PM			
Std1	1.954 Abs	< 0.000 ng/mL	A01
Std1	1.870 Abs	0.000 ng/mL	B01
Std1	1.791 Abs	0.315 ng/mL	C01
Std2	1.416 Abs	10.765 ng/mL	D01
Std2	1.418 Abs	10.655 ng/mL	F01
Std3	1.197 Abs	30.370 ng/mL	G01
Std3	1.181 Abs	32.550 ng/mL	H01
Std4	0.871 Abs	120.750 ng/mL	B02
Std4	0.829 Abs	145.100 ng/mL	C02
Std4	0.833 Abs	142.500 ng/mL	D02
Std5	0.563 Abs	> 500.000 ng/mL	E02
Std5	0.605 Abs	434.500 ng/mL	F02
Std5	0.590 Abs	473.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.872	0.082	4.36				
Std2	1.417	0.001	0.10	10.710	0.078	0.73	7.10
Std3	1.189	0.011	0.95	31.460	1.541	4.90	-10.11
Std4	0.844	0.023	2.75	136.117	13.371	9.82	8.89
Std5	0.586	0.021	3.63				-100.00





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	
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

