Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22196	Lincoln SP	7/12/2015	7/15/2015	<10
AB22197	Ferdinand SF	7/13/2015	7/15/2015	<10
AB22192	Potato Creek SP	7/13/2015	7/15/2015	<10
AB22507	Hardy Lake	7/14/2015	7/15/2015	<10
AB22193	Pokagon SP	7/14/2015	7/15/2015	<10
AB22194	Chain O'Lakes SP	7/14/2015	7/15/2015	<10
AB22195	Lost Bridge West SRA	7/14/2015	7/15/2015	<10
AB22189	Pokagon SP (Field Duplicate)	7/14/2015	7/15/2015	<10
AB22190	Field Blank	7/14/2015	7/15/2015	<10
20150714LB	Lab Blank	7/14/2015	7/15/2015	<10
AB22507LD	Hardy Lake (Lab Duplicate)	7/14/2015	7/15/2015	<10

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/15/2015 3:09:05 PM			
Std1	ANATOXIN-A 1X	2.111 Abs	0.481 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.093 Abs	0.595 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.625 Abs	10.425 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.382 Abs	26.510 ng/mL		10.000	F01
Std4	ANATOXIN-A 1X	0.939 Abs	139.950 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.957 Abs	129.950 ng/mL		125.000	C02
Std5	ANATOXIN-A 1X	0.686 Abs	470.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.660 Abs	> 500.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.694 Abs	449.000 ng/mL		500.000	G02
AB22196	ANATOXIN-A 1X	2.136 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB22196	ANATOXIN-A 1X	2.271 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB22196	ANATOXIN-A 1X	2.108 Abs [2.1717] {4.0 C	< 0.000 ng/mL [< 0.000] {120.9	Out(LR) [Out(LR)]	10.000 - 500.000	B03
AB22197	ANATOXIN-A 1X	2.253 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	C03
AB22197	ANATOXIN-A 1X	2.419 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	D03
AB22197	ANATOXIN-A 1X	2.239 Abs [2.3037] {4.3 C	< 0.000 ng/mL [< 0.000] {120.9	Out(LR) [Out(LR)]	10.000 - 500.000	E03
AB22192	ANATOXIN-A 1X	2.122 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	F03
AB22192	ANATOXIN-A 1X	2.364 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	G03
AB22192	ANATOXIN-A 1X	2.158 Abs [2.2147] {5.9 C	< 0.000 ng/mL [< 0.000] {120.9	Out(LR) [Out(LR)]	10.000 - 500.000	H03
AB22507	ANATOXIN-A 1X	2.652 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A04
AB22507	ANATOXIN-A 1X	2.436 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	B04
AB22507	ANATOXIN-A 1X	2.142 Abs [2.4100] {10.6	< 0.000 ng/mL [< 0.000] {120.9	Out(LR) [Out(LR)]	10.000 - 500.000	C04
AB22193	ANATOXIN-A 1X	2.117 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	D04
AB22193	ANATOXIN-A 1X	2.339 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	E04
AB22193	ANATOXIN-A 1X	2.095 Abs [2.1837] {6.2 C	0.000 ng/mL [< 0.000] {120.9 C	Low [Out(LR)]	10.000 - 500.000	F04
AB22194	ANATOXIN-A 1X	2.054 Abs	0.026 ng/mL	LOW	10.000 - 500.000	G04
AB22194	ANATOXIN-A 1X	2.409 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H04
AB22194	ANATOXIN-A 1X	2.353 Abs [2.2720] {8.4 C	< 0.000 ng/mL [< 0.000] {120.9	Out(LR) [Out(LR)]	10.000 - 500.000	A05
AB22195	ANATOXIN-A 1X	2.283 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	B05
AB22195	ANATOXIN-A 1X	2.014 Abs	0.096 ng/mL	LOW	10.000 - 500.000	C05
AB22195	ANATOXIN-A 1X	2.046 Abs [2.1143] {6.9 C	0.036 ng/mL [< 0.000] {64.3 CV	Low [Out(LR)]	10.000 - 500.000	D05
AB22189	ANATOXIN-A 1X	1.873 Abs	0.817 ng/mL	LOW	10.000 - 500.000	E05
AB22189	ANATOXIN-A 1X	1.973 Abs	0.222 ng/mL	LOW	10.000 - 500.000	F05
AB22189	ANATOXIN-A 1X	1.936 Abs [1.9273] {2.6 C	0.390 ng/mL [0.438] {64.4 CV}	Low [Low]	10.000 - 500.000	G05
AB22190	ANATOXIN-A 1X	2.380 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H05
AB22190	ANATOXIN-A 1X	2.613 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A06
AB22190	ANATOXIN-A 1X	2.208 Abs [2.4003] {8.5 C	< 0.000 ng/mL [< 0.000] {64.4 (	Out(LR) [Out(LR)]	10.000 - 500.000	B06
20150714LB	ANATOXIN-A 1X	1.961 Abs	0.270 ng/mL	LOW	10.000 - 500.000	C06
20150714LB	ANATOXIN-A 1X	2.021 Abs	0.080 ng/mL	LOW	10.000 - 500.000	D06
20150714LB	ANATOXIN-A 1X	2.049 Abs [2.0103] {2.2 C	0.032 ng/mL [0.105] {98.8 CV}	Low [Low]	10.000 - 500.000	E06
AB22507LD	ANATOXIN-A 1X	1.857 Abs	0.959 ng/mL	LOW	10.000 - 500.000	F06
AB22507LD	ANATOXIN-A 1X	1.978 Abs	0.204 ng/mL	LOW	10.000 - 500.000	G06
AB22507LD	ANATOXIN-A 1X	2.190 Abs [2.0083] {8.4 C	< 0.000 ng/mL [0.110] {91.8 CV	Out(LR) [Low]	10.000 - 500.000	H06

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

7/16/15
Date

Assay Calibration Report

Assay Information

Assay Name: ANATOXIN-A 1X
Assay Mode: 4-Parameter Logistic
Normal: 10.000 - 500.000

Units: ng/mL
# of decimals: 3
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
7/15/2015 3:09:05 PM			
Std1	2.111 Abs	< 0.000 ng/mL	A01
Std1	2.093 Abs	0.001 ng/mL	C01
Std2	1.625 Abs	5.185 ng/mL	E01
Std2	1.382 Abs	17.930 ng/mL	F01
Std4	0.939 Abs	130.400 ng/mL	B02
Std4	0.957 Abs	119.950 ng/mL	C02
Std5	0.686 Abs	482.500 ng/mL	E02
Std5	0.660 Abs	> 500.000 ng/mL	F02
Std5	0.694 Abs	460.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.102	0.013	0.61				
Std2	1.503	0.172	11.43	11.557	9.012	77.98	15.57
Std4	0.948	0.013	1.34	125.175	7.389	5.90	0.14
Std5	0.680	0.018	2.61				-100.00