



## Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB29406	Pokagon (Field Duplicate)	5/23/2017	5/24/2017	< 0.40
AB29407	Field Blank	5/23/2017	5/24/2017	< 0.40
AB29408	Mississinewa Lake Miami SRA	5/22/2017	5/24/2017	< 0.40
AB29409	Potato Creek SP	5/22/2017	5/24/2017	< 0.40
AB29410	Pokagon SP	5/23/2017	5/24/2017	< 0.40
AB29411	Southern Basin Inn's Beach	5/23/2017	5/24/2017	< 0.40
AB29412	Chain O'Lakes SP	5/23/2017	5/24/2017	< 0.40
AB29413	Lost Bridge West SRA	5/23/2017	5/24/2017	< 0.40
AB29413LD	Lost Bridge (Lab Duplicate)	5/23/2017	5/24/2017	< 0.40
20170524LB	Lab Blank	5/24/2017	5/24/2017	< 0.40



## Test Report

### Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/24/2017 3:30:55 PM						
Std1	Anatoxin a ELISA (2 rep)	1.320 Abs	0.001 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.349 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.109 Abs	0.187 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.127 Abs	0.161 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	0.965 Abs	0.484 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.031 Abs	0.327 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.875 Abs	0.766 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.841 Abs	0.899 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.537 Abs	3.165 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.564 Abs	2.847 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.456 Abs	4.365 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.424 Abs	4.965 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.721 Abs	1.167 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.867 Abs	0.612 ng/mL			F02
AB29406	Anatoxin a ELISA (2 rep)	1.244 Abs	0.045 ng/mL	LOW	0.150 - 5.000	G02
AB29406	Anatoxin a ELISA (2 rep)	1.339 Abs [1.2915] {5.2 CV}	< 0.000 ng/mL [0.017]	Out(LR) [Low]	0.150 - 5.000	H02
AB29407	Anatoxin a ELISA (2 rep)	1.028 Abs	0.276 ng/mL		0.150 - 5.000	A03
AB29407	Anatoxin a ELISA (2 rep)	1.119 Abs [1.0735] {6.0 CV}	0.156 ng/mL [0.211] {39.3 CV}		0.150 - 5.000	B03
AB29408	Anatoxin a ELISA (2 rep)	1.255 Abs	0.038 ng/mL	LOW	0.150 - 5.000	C03
AB29408	Anatoxin a ELISA (2 rep)	0.958 Abs [1.1065] {19.0 CV}	0.398 ng/mL [0.170] {116.8 CV}		0.150 - 5.000	D03
AB29409	Anatoxin a ELISA (2 rep)	1.414 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB29409	Anatoxin a ELISA (2 rep)	1.189 Abs [1.3015] {12.2 CV}	0.087 ng/mL [0.012]	Low [Low]	0.150 - 5.000	F03
AB29410	Anatoxin a ELISA (2 rep)	1.348 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB29410	Anatoxin a ELISA (2 rep)	1.484 Abs [1.4160] {6.8 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB29411	Anatoxin a ELISA (2 rep)	1.199 Abs	0.079 ng/mL	LOW	0.150 - 5.000	A04
AB29411	Anatoxin a ELISA (2 rep)	1.091 Abs [1.1450] {6.7 CV}	0.189 ng/mL [0.128] {58.0 CV}	[Low]	0.150 - 5.000	B04
AB29412	Anatoxin a ELISA (2 rep)	1.210 Abs	0.070 ng/mL	LOW	0.150 - 5.000	C04
AB29412	Anatoxin a ELISA (2 rep)	1.174 Abs [1.1920] {2.1 CV}	0.101 ng/mL [0.085] {25.6 CV}	Low [Low]	0.150 - 5.000	D04
AB29413	Anatoxin a ELISA (2 rep)	1.316 Abs	0.006 ng/mL	LOW	0.150 - 5.000	E04
AB29413	Anatoxin a ELISA (2 rep)	1.289 Abs [1.3025] {1.5 CV}	0.018 ng/mL [0.011] {70.7 CV}	Low [Low]	0.150 - 5.000	F04
AB29413LD	Anatoxin a ELISA (2 rep)	1.287 Abs	0.019 ng/mL	LOW	0.150 - 5.000	G04
AB29413LD	Anatoxin a ELISA (2 rep)	1.345 Abs [1.3160] {3.1 CV}	< 0.000 ng/mL [0.006]	Out(LR) [Low]	0.150 - 5.000	H04
20170524LB	Anatoxin a ELISA (2 rep)	1.084 Abs	0.198 ng/mL		0.150 - 5.000	A05
20170524LB	Anatoxin a ELISA (2 rep)	1.074 Abs [1.0790] {0.7 CV}	0.211 ng/mL [0.204] {4.5 CV}		0.150 - 5.000	B05

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

5/25/2017

Date



## Assay Calibration Report

### Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL  
Assay Mode: 4-Parameter Logistic # of decimals: 3  
Normal: 0.150 - 5.000 Assay Description: h1SA

Controls:  
Normal Control

Standards:

Std1, Concentration = 0.000, Minimum number to use: 2  
Std2, Concentration = 0.150, Minimum number to use: 2  
Std3, Concentration = 0.400, Minimum number to use: 2  
Std4, Concentration = 1.000, Minimum number to use: 2  
Std5, Concentration = 2.500, Minimum number to use: 2  
Std6, Concentration = 5.000, 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
5/24/2017 3:30:55 PM			
Std1	1.320 Abs	0.004 ng/mL	A01
Std1	1.349 Abs	< 0.000 ng/mL	B01
Std2	1.109 Abs	0.168 ng/mL	C01
Std2	1.127 Abs	0.147 ng/mL	D01
Std3	0.965 Abs	0.384 ng/mL	E01
Std5	0.537 Abs	2.779 ng/mL	A02
Std5	0.564 Abs	2.419 ng/mL	B02
Std6	0.456 Abs	4.405 ng/mL	C02
Std6	0.424 Abs	> 5.000 ng/mL	D02
5/24/2017 11:56:22 AM			
Normal Control	0.840 Abs	0.691 ng/mL	E02
Normal Control	0.869 Abs	0.606 ng/mL	F02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.335	0.021	1.54				
Std2	1.118	0.013	1.14	0.157	0.015	9.43	4.67
Std3	0.965			0.384			-4.00
Std5	0.551	0.019	3.47	2.599	0.255	9.79	3.96
Std6	0.440	0.023	5.14				-100.00
Normal Control	0.854	0.021	2.40	0.648	0.060	9.27	

