



## Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB29378	Fairfax SRA	5/15/2017	5/17/2017	< 0.15
AB29379	Paynetown SRA	5/15/2017	5/17/2017	< 0.15
AB29380	Starve Hollow SRA	5/15/2017	5/17/2017	< 0.15
AB29381	Deam Lake SRA	5/15/2017	5/17/2017	< 0.15
AB29382	Hardy Lake SRA	5/15/2017	5/17/2017	< 0.15
AB29383	Whitewater Memorial SP	5/16/2017	5/17/2017	< 0.15
AB29384	Quakertown SRA	5/16/2017	5/17/2017	< 0.15
AB29385	Mounds SRA	5/16/2017	5/17/2017	< 0.15
AB29386	Raccoon Lake SRA	5/16/2017	5/17/2017	< 0.15
AB29376	Whitewater Memorial (Field Duplicate)	5/16/2017	5/17/2017	0.195
AB29377	Field Blank	5/16/2017	5/17/2017	< 0.15
AB29381LD	Deam Lake (Lab Duplicate)	5/15/2017	5/17/2017	< 0.15
20170516LB	Lab Blank	5/16/2017	5/17/2017	< 0.15



# 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: ELISA

Controls:  
 Normal Control

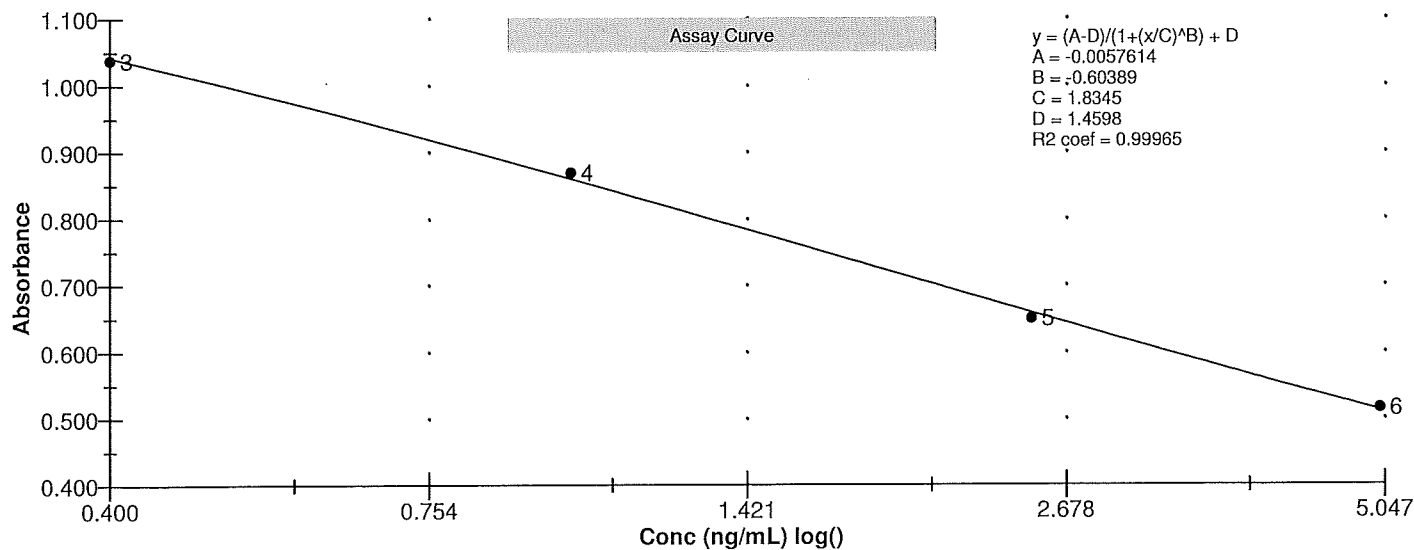
## Standards:

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
5/17/2017 4:44:46 PM			
Std1	1.463 Abs	< 0.000 ng/mL	A01
Std1	1.456 Abs	0.000 ng/mL	B01
Std3	1.038 Abs	0.409 ng/mL	E01
Std4	0.903 Abs	0.815 ng/mL	G01
Std4	0.835 Abs	1.122 ng/mL	H01
Std5	0.661 Abs	2.475 ng/mL	A02
Std5	0.640 Abs	2.724 ng/mL	B02
Std6	0.515 Abs	4.920 ng/mL	C02
5/17/2017 4:44:46 PM			
Normal Control	0.995 Abs	0.515 ng/mL	F02
Normal Control	0.935 Abs	0.698 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.460	0.005	0.34				
Std3	1.038			0.409			2.25
Std4	0.869	0.048	5.53	0.969	0.217	22.41	-3.10
Std5	0.650	0.015	2.28	2.599	0.176	6.77	3.96
Std6	0.515			4.920			-1.60
Normal Control	0.965	0.042	4.40	0.607	0.129	21.34	





# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/17/2017 4:44:46 PM						
Std1	Anatoxin a ELISA (2 rep)	1.463 Abs	0.008 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.456 Abs	0.013 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.379 Abs	0.078 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.320 Abs	0.134 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.038 Abs	0.530 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.086 Abs	0.442 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.903 Abs	0.858 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.835 Abs	1.089 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.661 Abs	2.124 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.640 Abs	2.328 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.515 Abs	4.540 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.451 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.935 Abs	0.698 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.995 Abs	0.515 ng/mL			F02
AB29378	Anatoxin a ELISA (2 rep)	1.344 Abs	0.031 ng/mL	LOW	0.150 - 5.000	G02
AB29378	Anatoxin a ELISA (2 rep)	1.387 Abs [1.3655] {2.2 CV}	0.014 ng/mL [0.022] {53.4 CV}	Low [Low]	0.150 - 5.000	H02
AB29379	Anatoxin a ELISA (2 rep)	1.316 Abs	0.047 ng/mL	LOW	0.150 - 5.000	A03
AB29379	Anatoxin a ELISA (2 rep)	1.343 Abs [1.3295] {1.4 CV}	0.032 ng/mL [0.039] {26.9 CV}	Low [Low]	0.150 - 5.000	B03
AB29380	Anatoxin a ELISA (2 rep)	1.400 Abs	0.010 ng/mL	LOW	0.150 - 5.000	C03
AB29380	Anatoxin a ELISA (2 rep)	1.340 Abs [1.3700] {3.1 CV}	0.033 ng/mL [0.020] {75.6 CV}	Low [Low]	0.150 - 5.000	D03
AB29381	Anatoxin a ELISA (2 rep)	1.354 Abs	0.027 ng/mL	LOW	0.150 - 5.000	E03
AB29381	Anatoxin a ELISA (2 rep)	1.439 Abs [1.3965] {4.3 CV}	0.002 ng/mL [0.011] {121.9 CV}	Low [Low]	0.150 - 5.000	F03
AB29382	Anatoxin a ELISA (2 rep)	1.313 Abs	0.048 ng/mL	LOW	0.150 - 5.000	G03
AB29382	Anatoxin a ELISA (2 rep)	1.339 Abs [1.3260] {1.4 CV}	0.034 ng/mL [0.041] {24.1 CV}	Low [Low]	0.150 - 5.000	H03
AB29383	Anatoxin a ELISA (2 rep)	1.294 Abs	0.061 ng/mL	LOW	0.150 - 5.000	A04
AB29383	Anatoxin a ELISA (2 rep)	1.332 Abs [1.3130] {2.0 CV}	0.038 ng/mL [0.048] {32.9 CV}	Low [Low]	0.150 - 5.000	B04
AB29384	Anatoxin a ELISA (2 rep)	1.440 Abs	0.002 ng/mL	LOW	0.150 - 5.000	C04
AB29384	Anatoxin a ELISA (2 rep)	1.368 Abs [1.4040] {3.6 CV}	0.021 ng/mL [0.009] {116.8 CV}	Low [Low]	0.150 - 5.000	D04
AB29385	Anatoxin a ELISA (2 rep)	1.473 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E04
AB29385	Anatoxin a ELISA (2 rep)	1.353 Abs [1.4130] {6.0 CV}	0.027 ng/mL [0.006]	Low [Low]	0.150 - 5.000	F04
AB29386	Anatoxin a ELISA (2 rep)	1.387 Abs	0.014 ng/mL	LOW	0.150 - 5.000	G04
AB29386	Anatoxin a ELISA (2 rep)	1.377 Abs [1.3820] {0.5 CV}	0.017 ng/mL [0.015] {13.7 CV}	Low [Low]	0.150 - 5.000	H04
AB29376	Anatoxin a ELISA (2 rep)	1.049 Abs	0.385 ng/mL		0.150 - 5.000	A05
AB29376	Anatoxin a ELISA (2 rep)	1.269 Abs [1.1590] {13.4 CV}	0.079 ng/mL [0.195] {93.3 CV}	LOW	0.150 - 5.000	B05
AB29377	Anatoxin a ELISA (2 rep)	1.227 Abs	0.116 ng/mL	LOW	0.150 - 5.000	C05
AB29377	Anatoxin a ELISA (2 rep)	1.219 Abs [1.2230] {0.5 CV}	0.124 ng/mL [0.120] {4.7 CV}	Low [Low]	0.150 - 5.000	D05
AB29381LD	Anatoxin a ELISA (2 rep)	1.210 Abs	0.133 ng/mL	LOW	0.150 - 5.000	E05
AB29381LD	Anatoxin a ELISA (2 rep)	1.323 Abs [1.2665] {6.3 CV}	0.043 ng/mL [0.081] {72.3 CV}	Low [Low]	0.150 - 5.000	F05
20170516LB	Anatoxin a ELISA (2 rep)	1.234 Abs	0.109 ng/mL	LOW	0.150 - 5.000	G05
20170516LB	Anatoxin a ELISA (2 rep)	1.284 Abs [1.2590] {2.8 CV}	0.068 ng/mL [0.087] {32.8 CV}	Low [Low]	0.150 - 5.000	H05

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

5/18/2017

Date