



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB26643	Fairfax SRA	8/22/2016	8/24/2016	< 0.15
AB26644	Paynetown SRA	8/22/2016	8/24/2016	< 0.15
AB26645	Starve Hollow SRA	8/22/2016	8/24/2016	< 0.15
AB26646	Deam Lake SRA	8/22/2016	8/24/2016	< 0.15
AB26646LD	Deam Lake SRA (Lab Duplicate)	8/22/2016	8/24/2016	< 0.15
AB26647	Hardy Lake SRA	8/22/2016	8/24/2016	0.616
AB26651	Fairfax SRA (Field Duplicate)	8/22/2016	8/24/2016	< 0.15
AB26652	Field Blank	8/22/2016	8/24/2016	< 0.15
AB26648	Quakertown SRA	8/23/2016	8/24/2016	0.240
AB26649	Mounds SRA	8/23/2016	8/24/2016	< 0.15
AB26650	Raccoon Lake SRA	8/23/2016	8/24/2016	0.176
AB26688	Whitewater Memorial SP	8/23/2016	8/24/2016	< 0.15
20160824LB	Lab Blank	8/24/2016	8/24/2016	< 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

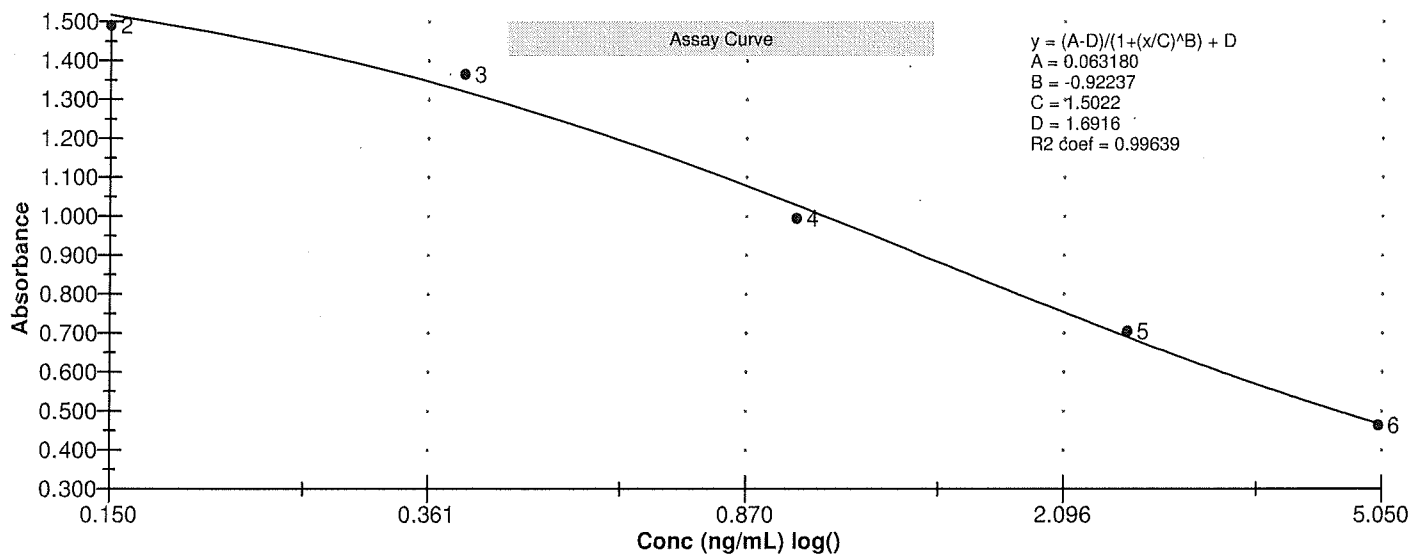
Standards:

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
8/24/2016 2:23:56 PM			
Std1	1.762 Abs	< 0.000 ng/mL	A01
Std1	1.632 Abs	0.043 ng/mL	B01
Std2	1.466 Abs	0.207 ng/mL	C01
Std2	1.515 Abs	0.153 ng/mL	D01
Std3	1.288 Abs	0.451 ng/mL	E01
Std3	1.442 Abs	0.235 ng/mL	F01
Std4	0.928 Abs	1.313 ng/mL	G01
Std4	1.062 Abs	0.911 ng/mL	H01
Std5	0.682 Abs	2.555 ng/mL	A02
Std5	0.728 Abs	2.247 ng/mL	B02
Std6	0.479 Abs	4.795 ng/mL	C02
Std6	0.446 Abs	> 5.000 ng/mL	D02
8/24/2016 2:23:56 PM			
Normal Control	1.167 Abs	0.670 ng/mL	F02
Normal Control	1.088 Abs	0.846 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.697	0.092	5.42				
Std2	1.490	0.035	2.32	0.180	0.038	21.21	20.00
Std3	1.365	0.109	7.98	0.343	0.153	44.53	-14.25
Std4	0.995	0.095	9.52	1.112	0.284	25.56	11.20
Std5	0.705	0.033	4.61	2.401	0.218	9.07	-3.96
Std6	0.463	0.023	5.05				-100.00
Normal Control	1.128	0.056	4.95	0.758	0.124	16.42	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/24/2016 2:23:56 PM						
Std1	Anatoxin a ELISA (2 rep)	1.762 Abs	< 0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.632 Abs	0.043 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.466 Abs	0.207 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.515 Abs	0.153 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.288 Abs	0.451 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.442 Abs	0.235 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.928 Abs	1.313 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.062 Abs	0.911 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.682 Abs	2.555 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.728 Abs	2.247 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.479 Abs	4.795 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.446 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.088 Abs	0.846 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.167 Abs	0.670 ng/mL			F02
AB26643	Anatoxin a ELISA (2 rep)	1.621 Abs	0.052 ng/mL	LOW	0.150 - 5.000	G02
AB26643	Anatoxin a ELISA (2 rep)	1.714 Abs [1.6675] {3.9 C	< 0.000 ng/mL [0.016]	Out(LR) [Low]	0.150 - 5.000	H02
AB26644	Anatoxin a ELISA (2 rep)	1.500 Abs	0.169 ng/mL		0.150 - 5.000	A03
AB26644	Anatoxin a ELISA (2 rep)	1.630 Abs [1.5650] {5.9 C	0.045 ng/mL [0.103] {81.9 CV}	Low [Low]	0.150 - 5.000	B03
AB26645	Anatoxin a ELISA (2 rep)	1.608 Abs	0.064 ng/mL	LOW	0.150 - 5.000	C03
AB26645	Anatoxin a ELISA (2 rep)	1.729 Abs [1.6685] {5.1 C	< 0.000 ng/mL [0.015]	Out(LR) [Low]	0.150 - 5.000	D03
AB26646	Anatoxin a ELISA (2 rep)	1.579 Abs	0.090 ng/mL	LOW	0.150 - 5.000	E03
AB26646	Anatoxin a ELISA (2 rep)	1.702 Abs [1.6405] {5.3 C	< 0.000 ng/mL [0.036]	Out(LR) [Low]	0.150 - 5.000	F03
AB26646LD	Anatoxin a ELISA (2 rep)	1.478 Abs	0.193 ng/mL		0.150 - 5.000	G03
AB26646LD	Anatoxin a ELISA (2 rep)	1.687 Abs [1.5825] {9.3 C	0.003 ng/mL [0.086] {137.1 CV}	Low [Low]	0.150 - 5.000	H03
AB26647	Anatoxin a ELISA (2 rep)	1.331 Abs	0.384 ng/mL		0.150 - 5.000	A04
AB26647	Anatoxin a ELISA (2 rep)	1.058 Abs [1.1945] {16.2	0.921 ng/mL [0.616] {58.2 CV}		0.150 - 5.000	B04
AB26651	Anatoxin a ELISA (2 rep)	1.527 Abs	0.140 ng/mL	LOW	0.150 - 5.000	C04
AB26651	Anatoxin a ELISA (2 rep)	1.644 Abs [1.5855] {5.2 C	0.034 ng/mL [0.084] {86.2 CV}	Low [Low]	0.150 - 5.000	D04
AB26652	Anatoxin a ELISA (2 rep)	1.653 Abs	0.027 ng/mL	LOW	0.150 - 5.000	E04
AB26652	Anatoxin a ELISA (2 rep)	1.514 Abs [1.5835] {6.2 C	0.154 ng/mL [0.086] {99.2 CV}	[Low]	0.150 - 5.000	F04
AB26648	Anatoxin a ELISA (2 rep)	1.378 Abs	0.317 ng/mL		0.150 - 5.000	G04
AB26648	Anatoxin a ELISA (2 rep)	1.499 Abs [1.4385] {5.9 C	0.170 ng/mL [0.240] {42.7 CV}		0.150 - 5.000	H04
AB26649	Anatoxin a ELISA (2 rep)	1.589 Abs	0.080 ng/mL	LOW	0.150 - 5.000	A05
AB26649	Anatoxin a ELISA (2 rep)	1.615 Abs [1.6020] {1.1 C	0.058 ng/mL [0.069] {22.5 CV}	Low [Low]	0.150 - 5.000	B05
AB26650	Anatoxin a ELISA (2 rep)	1.521 Abs	0.147 ng/mL	LOW	0.150 - 5.000	C05
AB26650	Anatoxin a ELISA (2 rep)	1.467 Abs [1.4940] {2.6 C	0.206 ng/mL [0.176] {23.6 CV}		0.150 - 5.000	D05
AB26688	Anatoxin a ELISA (2 rep)	1.341 Abs	0.370 ng/mL		0.150 - 5.000	E05
AB26688	Anatoxin a ELISA (2 rep)	1.698 Abs [1.5195] {16.6	< 0.000 ng/mL [0.148]	Out(LR) [Low]	0.150 - 5.000	F05
20160824LB	Anatoxin a ELISA (2 rep)	1.572 Abs	0.096 ng/mL	LOW	0.150 - 5.000	G05
20160824LB	Anatoxin a ELISA (2 rep)	1.669 Abs [1.6205] {4.2 C	0.015 ng/mL [0.053] {103.2 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

8/24/2016

Date