



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB32876	Quakertown SRA	5/14/2018	5/16/2018	< 0.400
AB32877	Raccoon Lake SRA	5/14/2018	5/16/2018	< 0.400
AB32878	Mounds SRA	5/14/2018	5/16/2018	< 0.400
AB32879	Whitewater Memorial SP	5/14/2018	5/16/2018	< 0.400
AB32880	Quakertown (Field Duplicate)	5/14/2018	5/16/2018	< 0.400
AB32881	Field Blank	5/14/2018	5/16/2018	< 0.400
AB32871	Starve Hollow SRA	5/14/2018	5/16/2018	< 0.400
AB32872	Fairfax SRA	5/14/2018	5/16/2018	< 0.400
AB32873	Paynetown SRA	5/14/2018	5/16/2018	2.990
AB32874	Deam Lake SRA	5/14/2018	5/16/2018	0.567
AB32875	Hardy Lake SRA	5/14/2018	5/16/2018	< 0.400
AB32869	Deam Lake (Field Duplicate)	5/14/2018	5/16/2018	< 0.400
AB32870	Field Blank	5/14/2018	5/16/2018	< 0.400
AB32878LD	Mounds (Lab Duplicate)	5/14/2018	5/16/2018	< 0.400
20180514LB	Lab Blank	5/14/2018	5/16/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/16/2018 12:49:26 PM						
Std1	Anatoxin a ELISA (2 rep)	1.621 Abs	0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.623 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.449 Abs	0.151 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.428 Abs	0.178 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.332 Abs	0.320 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.296 Abs	0.383 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.039 Abs	1.026 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.999 Abs	1.167 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.731 Abs	2.591 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.788 Abs	2.196 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.531 Abs	4.699 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.480 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.095 Abs	0.851 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.132 Abs	0.748 ng/mL			F02
AB32876	Anatoxin a ELISA (2 rep)	1.605 Abs	0.008 ng/mL	LOW	0.150 - 5.000	G02
AB32876	Anatoxin a ELISA (2 rep)	1.566 Abs [1.5855] {1.7 C	0.036 ng/mL [0.021] {90.0 CV}	Low [Low]	0.150 - 5.000	H02
AB32877	Anatoxin a ELISA (2 rep)	1.274 Abs	0.466 ng/mL		0.150 - 5.000	A03
AB32877	Anatoxin a ELISA (2 rep)	1.446 Abs [1.3600] {8.9 C	0.170 ng/mL [0.303] {65.8 CV}		0.150 - 5.000	B03
AB32878	Anatoxin a ELISA (2 rep)	1.444 Abs	0.173 ng/mL		0.150 - 5.000	C03
AB32878	Anatoxin a ELISA (2 rep)	1.405 Abs [1.4245] {1.9 C	0.229 ng/mL [0.200] {19.7 CV}		0.150 - 5.000	D03
AB32879	Anatoxin a ELISA (2 rep)	1.443 Abs	0.174 ng/mL		0.150 - 5.000	E03
AB32879	Anatoxin a ELISA (2 rep)	1.487 Abs [1.4650] {2.1 C	0.118 ng/mL [0.145] {27.1 CV}	Low [Low]	0.150 - 5.000	F03
AB32880	Anatoxin a ELISA (2 rep)	1.361 Abs	0.300 ng/mL		0.150 - 5.000	G03
AB32880	Anatoxin a ELISA (2 rep)	1.551 Abs [1.4560] {9.2 C	0.050 ng/mL [0.156] {101.0 CV}	LOW	0.150 - 5.000	H03
AB32881	Anatoxin a ELISA (2 rep)	1.377 Abs	0.274 ng/mL		0.150 - 5.000	A04
AB32881	Anatoxin a ELISA (2 rep)	1.313 Abs [1.3450] {3.4 C	0.387 ng/mL [0.328] {24.2 CV}		0.150 - 5.000	B04
AB32871	Anatoxin a ELISA (2 rep)	1.503 Abs	0.099 ng/mL	LOW	0.150 - 5.000	C04
AB32871	Anatoxin a ELISA (2 rep)	1.424 Abs [1.4635] {3.8 C	0.201 ng/mL [0.147] {48.1 CV}	[Low]	0.150 - 5.000	D04
AB32872	Anatoxin a ELISA (2 rep)	1.316 Abs	0.382 ng/mL		0.150 - 5.000	E04
AB32872	Anatoxin a ELISA (2 rep)	1.348 Abs [1.3320] {1.7 C	0.323 ng/mL [0.352] {11.8 CV}		0.150 - 5.000	F04
AB32873	Anatoxin a ELISA (2 rep)	0.738 Abs	2.793 ng/mL		0.150 - 5.000	G04
AB32873	Anatoxin a ELISA (2 rep)	0.691 Abs [0.7145] {4.7 C	3.202 ng/mL [2.990] {9.6 CV}		0.150 - 5.000	H04
AB32874	Anatoxin a ELISA (2 rep)	1.217 Abs	0.595 ng/mL		0.150 - 5.000	A05
AB32874	Anatoxin a ELISA (2 rep)	1.241 Abs [1.2290] {1.4 C	0.539 ng/mL [0.567] {7.0 CV}		0.150 - 5.000	B05
AB32875	Anatoxin a ELISA (2 rep)	1.544 Abs	0.056 ng/mL	LOW	0.150 - 5.000	C05
AB32875	Anatoxin a ELISA (2 rep)	1.457 Abs [1.5005] {4.1 C	0.155 ng/mL [0.102] {66.4 CV}	[Low]	0.150 - 5.000	D05
AB32869	Anatoxin a ELISA (2 rep)	1.338 Abs	0.341 ng/mL		0.150 - 5.000	E05
AB32869	Anatoxin a ELISA (2 rep)	1.310 Abs [1.3240] {1.5 C	0.394 ng/mL [0.366] {10.2 CV}		0.150 - 5.000	F05
AB32870	Anatoxin a ELISA (2 rep)	1.475 Abs	0.132 ng/mL	LOW	0.150 - 5.000	G05
AB32870	Anatoxin a ELISA (2 rep)	1.477 Abs [1.4760] {0.1 C	0.130 ng/mL [0.131] {1.1 CV}	Low [Low]	0.150 - 5.000	H05
AB32878LD	Anatoxin a ELISA (2 rep)	1.518 Abs	0.083 ng/mL	LOW	0.150 - 5.000	A06
AB32878LD	Anatoxin a ELISA (2 rep)	1.374 Abs [1.4460] {7.0 C	0.278 ng/mL [0.170] {76.4 CV}		0.150 - 5.000	B06
20180514LB	Anatoxin a ELISA (2 rep)	1.515 Abs	0.086 ng/mL	LOW	0.150 - 5.000	C06
20180514LB	Anatoxin a ELISA (2 rep)	1.182 Abs [1.3485] {17.5	0.683 ng/mL [0.322] {109.8 CV}		0.150 - 5.000	D06

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

5/16/18

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight # of decimals: 3
Normal: 0.000 to 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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
5/16/2018 12:49:26 PM			
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Std6	0.480 Abs	> 5.000 ng/mL	D02
5/16/2018 12:49:26 PM			
Normal Control	1.132 Abs	0.748 ng/mL	F02
Normal Control	1.095 Abs	0.851 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.622	0.001	0.09				
Std2	1.438	0.015	1.03	0.164	0.019	11.61	9.33
Std3	1.314	0.025	1.94	0.351	0.045	12.67	-12.25
Std4	1.019	0.028	2.78	1.097	0.100	9.09	9.70
Std5	0.760	0.040	5.31	2.394	0.279	11.67	-4.24
Std6	0.506	0.036	7.13				-100.00
Normal Control	1.113	0.026	2.35	0.799	0.073	9.11	

