



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33958	Field Blank	8/6/2018	8/10/2018	< 0.400
AB33949	Mounds SRA	8/7/2018	8/10/2018	< 0.400
AB33950	Raccoon Lake SRA	8/6/2018	8/10/2018	< 0.400
AB33951	Deam Lake SRA	8/7/2018	8/10/2018	< 0.400
AB33952	Hardy Lake SRA	8/7/2018	8/10/2018	< 0.400
AB33953	Fairfax SRA	8/6/2018	8/10/2018	< 0.400
AB33954	Paynetown SRA	8/6/2018	8/10/2018	0.554
AB33955	Starve Hollow SRA	8/6/2018	8/10/2018	0.551
AB33956	Whitewater Memorial SP	8/7/2018	8/10/2018	< 0.400
AB33957	Raccoon Lake (Field Duplicate)	8/6/2018	8/10/2018	< 0.400
AB33948	Quakertown SRA	8/7/2018	8/10/2018	< 0.400
AB33959	Dog Park Lake	8/6/2018	8/10/2018	< 0.400
AB33954LD	Paynetown (Lab Duplicate)	8/6/2018	8/10/2018	< 0.400
20180807LB	Lab Blank	8/7/2018	8/10/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/10/2018 11:03:34 AM						
Std1	Anatoxin a ELISA (2 rep)	1.413 Abs	0.004 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.507 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.053 Abs	0.499 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.276 Abs	0.082 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.147 Abs	0.272 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.150 Abs	0.266 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.974 Abs	0.759 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.897 Abs	1.082 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.647 Abs	2.730 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.601 Abs	3.157 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.471 Abs	4.624 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.453 Abs	4.861 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.004 Abs	0.725 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.880 Abs	1.146 ng/mL			F02
AB33958	Anatoxin a ELISA (2 rep)	1.363 Abs	0.077 ng/mL	LOW	0.150 - 5.000	G02
AB33958	Anatoxin a ELISA (2 rep)	1.305 Abs [1.3340] {3.1 CV}	0.149 ng/mL [0.111] {45.1 CV}	Low [Low]	0.150 - 5.000	H02
AB33949	Anatoxin a ELISA (2 rep)	1.267 Abs	0.205 ng/mL		0.150 - 5.000	A03
AB33949	Anatoxin a ELISA (2 rep)	1.217 Abs [1.2420] {2.8 CV}	0.287 ng/mL [0.244] {23.6 CV}		0.150 - 5.000	B03
AB33950	Anatoxin a ELISA (2 rep)	1.179 Abs	0.357 ng/mL		0.150 - 5.000	C03
AB33950	Anatoxin a ELISA (2 rep)	1.346 Abs [1.2625] {9.4 CV}	0.097 ng/mL [0.211] {81.0 CV}	LOW	0.150 - 5.000	D03
AB33951	Anatoxin a ELISA (2 rep)	1.474 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB33951	Anatoxin a ELISA (2 rep)	1.362 Abs [1.4180] {5.6 CV}	0.078 ng/mL [0.023]	Low [Low]	0.150 - 5.000	F03
AB33952	Anatoxin a ELISA (2 rep)	1.141 Abs	0.437 ng/mL		0.150 - 5.000	G03
AB33952	Anatoxin a ELISA (2 rep)	1.223 Abs [1.1820] {4.9 CV}	0.276 ng/mL [0.352] {31.9 CV}		0.150 - 5.000	H03
AB33953	Anatoxin a ELISA (2 rep)	1.309 Abs	0.143 ng/mL	LOW	0.150 - 5.000	A04
AB33953	Anatoxin a ELISA (2 rep)	1.170 Abs [1.2395] {7.9 CV}	0.376 ng/mL [0.249] {63.5 CV}		0.150 - 5.000	B04
AB33954	Anatoxin a ELISA (2 rep)	1.191 Abs	0.334 ng/mL		0.150 - 5.000	C04
AB33954	Anatoxin a ELISA (2 rep)	0.990 Abs [1.0905] {13.0 CV}	0.841 ng/mL [0.554] {61.0 CV}		0.150 - 5.000	D04
AB33955	Anatoxin a ELISA (2 rep)	1.064 Abs	0.624 ng/mL		0.150 - 5.000	E04
AB33955	Anatoxin a ELISA (2 rep)	1.120 Abs [1.0920] {3.6 CV}	0.484 ng/mL [0.551] {17.9 CV}		0.150 - 5.000	F04
AB33956	Anatoxin a ELISA (2 rep)	1.393 Abs	0.046 ng/mL	LOW	0.150 - 5.000	G04
AB33956	Anatoxin a ELISA (2 rep)	1.218 Abs [1.3055] {9.5 CV}	0.285 ng/mL [0.149] {102.1 CV}	[Low]	0.150 - 5.000	H04
AB33957	Anatoxin a ELISA (2 rep)	1.213 Abs	0.294 ng/mL		0.150 - 5.000	A05
AB33957	Anatoxin a ELISA (2 rep)	1.218 Abs [1.2155] {0.3 CV}	0.285 ng/mL [0.289] {2.2 CV}		0.150 - 5.000	B05
AB33948	Anatoxin a ELISA (2 rep)	1.362 Abs	0.078 ng/mL	LOW	0.150 - 5.000	C05
AB33948	Anatoxin a ELISA (2 rep)	1.306 Abs [1.3340] {3.0 CV}	0.147 ng/mL [0.111] {43.4 CV}	Low [Low]	0.150 - 5.000	D05
AB33959	Anatoxin a ELISA (2 rep)	1.338 Abs	0.107 ng/mL	LOW	0.150 - 5.000	E05
AB33959	Anatoxin a ELISA (2 rep)	1.378 Abs [1.3580] {2.1 CV}	0.060 ng/mL [0.083] {39.8 CV}	Low [Low]	0.150 - 5.000	F05
AB33954LD	Anatoxin a ELISA (2 rep)	1.208 Abs	0.304 ng/mL		0.150 - 5.000	G05
AB33954LD	Anatoxin a ELISA (2 rep)	1.308 Abs [1.2580] {5.6 CV}	0.145 ng/mL [0.218] {50.1 CV}	LOW	0.150 - 5.000	H05
20180807LB	Anatoxin a ELISA (2 rep)	1.197 Abs	0.323 ng/mL		0.150 - 5.000	A06
20180807LB	Anatoxin a ELISA (2 rep)	1.294 Abs [1.2455] {5.5 CV}	0.164 ng/mL [0.239] {46.2 CV}		0.150 - 5.000	B06

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

8/10/18

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
 Assay Mode: 4-Parameter Logistic Weight by: None # 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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/10/2018 11:03:34 AM			
Std1	1.507 Abs	< 0.000 ng/mL	B01
Std2	1.276 Abs	0.174 ng/mL	D01
Std3	1.147 Abs	0.377 ng/mL	E01
Std3	1.150 Abs	0.371 ng/mL	F01
Std4	0.974 Abs	0.806 ng/mL	G01
Std4	0.897 Abs	1.077 ng/mL	H01
Std5	0.647 Abs	2.548 ng/mL	A02
Std5	0.601 Abs	2.974 ng/mL	B02
Std6	0.471 Abs	4.641 ng/mL	C02
Std6	0.453 Abs	4.945 ng/mL	D02
8/10/2018 11:03:34 AM			
Normal Control	0.880 Abs	1.146 ng/mL	F02
Normal Control	1.004 Abs	0.715 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.507						
Std2	1.276			0.174			16.00
Std3	1.148	0.002	0.18	0.374	0.004	1.13	-6.50
Std4	0.936	0.054	5.82	0.942	0.192	20.35	-5.80
Std5	0.624	0.033	5.21	2.761	0.301	10.91	10.44
Std6	0.462	0.013	2.75	4.793	0.215	4.48	-4.14
Normal Control	0.942	0.088	9.31	0.931	0.305	32.75	

