



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB34027	Field Blank	8/27/2018	8/28/2018	< 0.400
AB34024	Potato Creek SP	8/27/2018	8/28/2018	< 0.400
AB34025	Lost Bridge West SRA	8/27/2018	8/28/2018	< 0.400
AB34025LD	Lost Bridge West (Lab Duplicate)	8/27/2018	8/28/2018	< 0.400
AB34026	Potato Creek (Field Duplicate)	8/27/2018	8/28/2018	< 0.400
AB34023	Mississinewa Lake Miami SRA	8/27/2018	8/28/2018	< 0.400
AB34028	Dog Park Lake	8/27/2018	8/28/2018	< 0.400
20180828LB	Lab Blank	8/28/2018	8/28/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/28/2018 6:06:02 PM						
Std1	Anatoxin a ELISA (2 rep)	1.309 Abs	0.322 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.540 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.424 Abs	0.050 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.391 Abs	0.149 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.252 Abs	0.429 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.254 Abs	0.426 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.919 Abs	1.146 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.047 Abs	0.833 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.610 Abs	2.578 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.620 Abs	2.496 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.449 Abs	> 5.000 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.471 Abs	4.625 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.050 Abs	0.787 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.942 Abs	1.066 ng/mL			F02
AB34027	Anatoxin a ELISA (2 rep)	1.459 Abs	0.112 ng/mL	LOW	0.150 - 5.000	G02
AB34027	Anatoxin a ELISA (2 rep)	1.547 Abs [1.5030] {4.1 CV}	< 0.000 ng/mL [0.047]	Out(LR) [Low]	0.150 - 5.000	H02
AB34024	Anatoxin a ELISA (2 rep)	1.459 Abs	0.112 ng/mL	LOW	0.150 - 5.000	A03
AB34024	Anatoxin a ELISA (2 rep)	1.420 Abs [1.4395] {1.9 CV}	0.169 ng/mL [0.141] {28.7 CV}	[Low]	0.150 - 5.000	B03
AB34025	Anatoxin a ELISA (2 rep)	1.428 Abs	0.158 ng/mL		0.150 - 5.000	C03
AB34025	Anatoxin a ELISA (2 rep)	1.198 Abs [1.3130] {12.4 CV}	0.540 ng/mL [0.336] {77.4 CV}		0.150 - 5.000	D03
AB34025LD	Anatoxin a ELISA (2 rep)	1.481 Abs	0.080 ng/mL	LOW	0.150 - 5.000	E03
AB34025LD	Anatoxin a ELISA (2 rep)	1.411 Abs [1.4460] {3.4 CV}	0.183 ng/mL [0.132] {55.4 CV}	[Low]	0.150 - 5.000	F03
AB34026	Anatoxin a ELISA (2 rep)	1.482 Abs	0.079 ng/mL	LOW	0.150 - 5.000	G03
AB34026	Anatoxin a ELISA (2 rep)	1.518 Abs [1.5000] {1.7 CV}	0.024 ng/mL [0.052] {75.5 CV}	Low [Low]	0.150 - 5.000	H03
AB34023	Anatoxin a ELISA (2 rep)	1.338 Abs	0.295 ng/mL		0.150 - 5.000	A04
AB34023	Anatoxin a ELISA (2 rep)	1.380 Abs [1.3590] {2.2 CV}	0.230 ng/mL [0.262] {17.5 CV}		0.150 - 5.000	B04
AB34028	Anatoxin a ELISA (2 rep)	1.402 Abs	0.197 ng/mL		0.150 - 5.000	C04
AB34028	Anatoxin a ELISA (2 rep)	1.436 Abs [1.4190] {1.7 CV}	0.146 ng/mL [0.172] {21.0 CV}	LOW	0.150 - 5.000	D04
20180828LB	Anatoxin a ELISA (2 rep)	1.245 Abs	0.452 ng/mL		0.150 - 5.000	E04
20180828LB	Anatoxin a ELISA (2 rep)	1.398 Abs [1.3215] {8.2 CV}	0.202 ng/mL [0.322] {54.1 CV}		0.150 - 5.000	F04

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

8/28/2018

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
8/28/2018 6:06:02 PM			
Std1	1.540 Abs	< 0.000 ng/mL	B01
Std2	1.424 Abs	0.149 ng/mL	C01
Std2	1.391 Abs	0.194 ng/mL	D01
Std3	1.252 Abs	0.400 ng/mL	E01
Std3	1.254 Abs	0.397 ng/mL	F01
Std4	0.919 Abs	1.135 ng/mL	G01
Std4	1.047 Abs	0.794 ng/mL	H01
Std5	0.610 Abs	2.728 ng/mL	A02
Std5	0.620 Abs	2.643 ng/mL	B02
Std6	0.449 Abs	> 5.000 ng/mL	C02
Std6	0.471 Abs	4.540 ng/mL	D02
8/28/2018 6:06:02 PM			
Normal Control	0.942 Abs	1.066 ng/mL	F02
Normal Control	1.050 Abs	0.787 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.540						
Std2	1.408	0.023	1.66	0.171	0.032	18.55	14.00
Std3	1.253	0.001	0.11	0.399	0.002	0.53	-0.25
Std4	0.983	0.091	9.21	0.965	0.241	25.00	-3.50
Std5	0.615	0.007	1.15	2.685	0.060	2.24	7.40
Std6	0.460	0.016	3.38				-100.00
Normal Control	0.996	0.076	7.67	0.926	0.197	21.29	

