



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB29629	Fairfax SRA	6/12/2017	6/14/2017	< 0.40
AB29630	Paynetown SRA	6/12/2017	6/14/2017	< 0.40
AB29631	Starve Hollow SRA	6/12/2017	6/14/2017	< 0.40
AB29632	Deam Lake SRA	6/12/2017	6/14/2017	< 0.40
AB29632LD	Deam Lake (Lab Duplicate)	6/12/2017	6/14/2017	< 0.40
AB29633	Hardy Lake SRA	6/12/2017	6/14/2017	< 0.40
AB29634	Whitewater Memorial SP	6/13/2017	6/14/2017	< 0.40
AB29635	Quakertown SRA	6/13/2017	6/14/2017	< 0.40
AB29636	Mounds SRA	6/13/2017	6/14/2017	< 0.40
AB29637	Raccoon Lake SRA	6/13/2017	6/14/2017	< 0.40
AB29627	Fairfax (Field Duplicate)	6/13/2017	6/14/2017	< 0.40
AB29628	Field Blank	6/13/2017	6/14/2017	< 0.40
20170614LB	Lab Blank	6/14/2017	6/14/2017	< 0.40



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/14/2017 12:55:56 PM						
Std1	Anatoxin a ELISA (2 rep)	1.377 Abs	0.279 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.614 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.400 Abs	0.232 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.412 Abs	0.206 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.284 Abs	0.449 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.347 Abs	0.336 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.937 Abs	1.148 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.079 Abs	0.827 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.618 Abs	2.550 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.600 Abs	2.707 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.490 Abs	4.360 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.463 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.986 Abs	0.904 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.031 Abs	0.802 ng/mL			F02
AB29629	Anatoxin a ELISA (2 rep)	1.518 Abs	0.099 ng/mL	LOW	0.150 - 5.000	G02
AB29629	Anatoxin a ELISA (2 rep)	1.514 Abs [1.5160] {0.2 CV}	0.104 ng/mL [0.102] {3.5 CV}	Low [Low]	0.150 - 5.000	H02
AB29630	Anatoxin a ELISA (2 rep)	1.378 Abs	0.276 ng/mL		0.150 - 5.000	A03
AB29630	Anatoxin a ELISA (2 rep)	1.399 Abs [1.3885] {1.1 CV}	0.249 ng/mL [0.262] {7.3 CV}		0.150 - 5.000	B03
AB29631	Anatoxin a ELISA (2 rep)	1.323 Abs	0.352 ng/mL		0.150 - 5.000	C03
AB29631	Anatoxin a ELISA (2 rep)	1.372 Abs [1.3475] {2.6 CV}	0.285 ng/mL [0.318] {14.9 CV}		0.150 - 5.000	D03
AB29632	Anatoxin a ELISA (2 rep)	1.373 Abs	0.283 ng/mL		0.150 - 5.000	E03
AB29632	Anatoxin a ELISA (2 rep)	1.468 Abs [1.4205] {4.7 CV}	0.162 ng/mL [0.221] {38.5 CV}		0.150 - 5.000	F03
AB29632LD	Anatoxin a ELISA (2 rep)	1.459 Abs	0.172 ng/mL		0.150 - 5.000	G03
AB29632LD	Anatoxin a ELISA (2 rep)	1.523 Abs [1.4910] {3.0 CV}	0.094 ng/mL [0.132] {41.5 CV}	Low [Low]	0.150 - 5.000	H03
AB29633	Anatoxin a ELISA (2 rep)	1.444 Abs	0.191 ng/mL		0.150 - 5.000	A04
AB29633	Anatoxin a ELISA (2 rep)	1.329 Abs [1.3865] {5.9 CV}	0.343 ng/mL [0.265] {40.3 CV}		0.150 - 5.000	B04
AB29634	Anatoxin a ELISA (2 rep)	1.376 Abs	0.279 ng/mL		0.150 - 5.000	C04
AB29634	Anatoxin a ELISA (2 rep)	1.443 Abs [1.4095] {3.4 CV}	0.192 ng/mL [0.234] {26.1 CV}		0.150 - 5.000	D04
AB29635	Anatoxin a ELISA (2 rep)	1.267 Abs	0.435 ng/mL		0.150 - 5.000	E04
AB29635	Anatoxin a ELISA (2 rep)	1.414 Abs [1.3405] {7.8 CV}	0.229 ng/mL [0.328] {43.9 CV}		0.150 - 5.000	F04
AB29636	Anatoxin a ELISA (2 rep)	1.441 Abs	0.195 ng/mL		0.150 - 5.000	G04
AB29636	Anatoxin a ELISA (2 rep)	1.481 Abs [1.4610] {1.9 CV}	0.145 ng/mL [0.169] {20.8 CV}	LOW	0.150 - 5.000	H04
AB29637	Anatoxin a ELISA (2 rep)	1.404 Abs	0.242 ng/mL		0.150 - 5.000	A05
AB29637	Anatoxin a ELISA (2 rep)	1.327 Abs [1.3655] {4.0 CV}	0.347 ng/mL [0.293] {25.2 CV}		0.150 - 5.000	B05
AB29627	Anatoxin a ELISA (2 rep)	1.354 Abs	0.308 ng/mL		0.150 - 5.000	C05
AB29627	Anatoxin a ELISA (2 rep)	1.243 Abs [1.2985] {6.0 CV}	0.472 ng/mL [0.387] {29.7 CV}		0.150 - 5.000	D05
AB29628	Anatoxin a ELISA (2 rep)	1.330 Abs	0.342 ng/mL		0.150 - 5.000	E05
AB29628	Anatoxin a ELISA (2 rep)	1.368 Abs [1.3490] {2.0 CV}	0.289 ng/mL [0.316] {11.9 CV}		0.150 - 5.000	F05
20170614LB	Anatoxin a ELISA (2 rep)	1.299 Abs	0.387 ng/mL		0.150 - 5.000	G05
20170614LB	Anatoxin a ELISA (2 rep)	1.474 Abs [1.3865] {8.9 CV}	0.154 ng/mL [0.265] {60.9 CV}		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

6/14/2017

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep)
Assay Mode: 4-Parameter Logistic
Normal: 0.150 - 5.000
Units: ng/mL
of decimals: 3
Assay Description: hISA

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
6/14/2017 12:55:56 PM			
Std1	1.614 Abs	< 0.000 ng/mL	B01
Std2	1.400 Abs	0.225 ng/mL	C01
Std2	1.412 Abs	0.211 ng/mL	D01
Std3	1.284 Abs	0.372 ng/mL	E01
Std3	1.347 Abs	0.289 ng/mL	F01
Std4	0.937 Abs	1.029 ng/mL	G01
Std5	0.618 Abs	2.583 ng/mL	A02
Std5	0.600 Abs	2.753 ng/mL	B02
Std6	0.490 Abs	4.355 ng/mL	C02
Std6	0.463 Abs	> 5.000 ng/mL	D02
6/14/2017 12:55:56 PM			
Normal Control	1.031 Abs	0.802 ng/mL	F02
Normal Control	0.986 Abs	0.904 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.614						
Std2	1.406	0.008	0.60	0.218	0.010	4.54	45.33
Std3	1.316	0.045	3.39	0.331	0.059	17.76	-17.25
Std4	0.937			1.029			2.90
Std5	0.609	0.013	2.09	2.668	0.120	4.51	6.72
Std6	0.477	0.019	4.01				-100.00
Normal Control	1.008	0.032	3.16	0.853	0.072	8.46	

