



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25342	Fairfax SRA	5/31/2016	6/2/2016	< 0.15
AB25343	Paynetown SRA	5/31/2016	6/2/2016	< 0.15
AB25344	Hardy Lake SRA	5/31/2016	6/2/2016	< 0.15
AB25345	Raccoon Lake SRA	6/1/2016	6/2/2016	< 0.15
AB25346	Whitewater Memorial SP	6/1/2016	6/2/2016	< 0.15
AB25347	Quakertown SRA	6/1/2016	6/2/2016	< 0.15
AB25348	Mounds SRA	6/1/2016	6/2/2016	< 0.15
AB25349	Starve Hollow (Field Duplicate)	5/31/2016	6/2/2016	< 0.15
AB25350	Deam Lake SRA	5/31/2016	6/2/2016	< 0.15
AB25350LD	Deam Lake SRA (Lab Duplicate)	5/31/2016	6/2/2016	< 0.15
AB25351	Field Blank	5/31/2016	6/2/2016	< 0.15
AB25352	Hardy Lake SRA (Field Duplicate)	5/31/2016	6/2/2016	< 0.15
20160601LB	Lab Blank	5/31/2016	6/2/2016	< 0.15



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/2/2016 12:09:41 PM						
Std1	Anatoxin a ELISA (2 rep)	1.457 Abs	0.002 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.517 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.268 Abs	0.141 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.104 Abs	0.458 ng/mL		0.400	E01
Std4	Anatoxin a ELISA (2 rep)	0.926 Abs	1.077 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.987 Abs	0.826 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.669 Abs	2.730 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.641 Abs	2.985 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.480 Abs	4.848 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.492 Abs	4.682 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.051 Abs	0.572 ng/mL			E02
AB25342	Anatoxin a ELISA (2 rep)	1.524 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G02
AB25342	Anatoxin a ELISA (2 rep)	1.533 Abs [1.5285] {0.4 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H02
AB25343	Anatoxin a ELISA (2 rep)	1.379 Abs	0.042 ng/mL	LOW	0.150 - 5.000	A03
AB25343	Anatoxin a ELISA (2 rep)	1.266 Abs [1.3225] {6.0 C	0.152 ng/mL [0.089] {80.2 CV}	[Low]	0.150 - 5.000	B03
AB25344	Anatoxin a ELISA (2 rep)	1.382 Abs	0.040 ng/mL	LOW	0.150 - 5.000	C03
AB25344	Anatoxin a ELISA (2 rep)	1.287 Abs [1.3345] {5.0 C	0.126 ng/mL [0.077] {73.3 CV}	Low [Low]	0.150 - 5.000	D03
AB25345	Anatoxin a ELISA (2 rep)	1.460 Abs	0.004 ng/mL	LOW	0.150 - 5.000	E03
AB25345	Anatoxin a ELISA (2 rep)	1.462 Abs [1.4610] {0.1 C	0.003 ng/mL [0.004] {20.2 CV}	Low [Low]	0.150 - 5.000	F03
AB25346	Anatoxin a ELISA (2 rep)	1.495 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB25346	Anatoxin a ELISA (2 rep)	1.593 Abs [1.5440] {4.5 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB25347	Anatoxin a ELISA (2 rep)	1.505 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	A04
AB25347	Anatoxin a ELISA (2 rep)	1.361 Abs [1.4330] {7.1 C	0.055 ng/mL [0.013]	Low [Low]	0.150 - 5.000	B04
AB25348	Anatoxin a ELISA (2 rep)	1.370 Abs	0.049 ng/mL	LOW	0.150 - 5.000	C04
AB25348	Anatoxin a ELISA (2 rep)	1.502 Abs [1.4360] {6.5 C	< 0.000 ng/mL [0.012]	Out(LR) [Low]	0.150 - 5.000	D04
AB25349	Anatoxin a ELISA (2 rep)	1.374 Abs	0.046 ng/mL	LOW	0.150 - 5.000	E04
AB25349	Anatoxin a ELISA (2 rep)	1.522 Abs [1.4480] {7.2 C	< 0.000 ng/mL [0.007]	Out(LR) [Low]	0.150 - 5.000	F04
AB25350	Anatoxin a ELISA (2 rep)	1.366 Abs	0.052 ng/mL	LOW	0.150 - 5.000	G04
AB25350	Anatoxin a ELISA (2 rep)	1.457 Abs [1.4115] {4.6 C	0.005 ng/mL [0.023] {116.6 CV}	Low [Low]	0.150 - 5.000	H04
AB25350LD	Anatoxin a ELISA (2 rep)	1.325 Abs	0.086 ng/mL	LOW	0.150 - 5.000	A05
AB25350LD	Anatoxin a ELISA (2 rep)	1.400 Abs [1.3625] {3.9 C	0.029 ng/mL [0.054] {70.1 CV}	Low [Low]	0.150 - 5.000	B05
AB25351	Anatoxin a ELISA (2 rep)	1.255 Abs	0.166 ng/mL		0.150 - 5.000	C05
AB25351	Anatoxin a ELISA (2 rep)	1.386 Abs [1.3205] {7.0 C	0.038 ng/mL [0.090] {88.7 CV}	Low [Low]	0.150 - 5.000	D05
AB25352	Anatoxin a ELISA (2 rep)	1.303 Abs	0.108 ng/mL	LOW	0.150 - 5.000	E05
AB25352	Anatoxin a ELISA (2 rep)	1.461 Abs [1.3820] {8.1 C	0.004 ng/mL [0.040] {131.3 CV}	Low [Low]	0.150 - 5.000	F05
20160601LB	Anatoxin a ELISA (2 rep)	1.338 Abs	0.074 ng/mL	LOW	0.150 - 5.000	G05
20160601LB	Anatoxin a ELISA (2 rep)	1.456 Abs [1.3970] {6.0 C	0.005 ng/mL [0.031] {123.5 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

6/2/2016

Date



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
6/2/2016 12:09:41 PM			
Std1	1.457 Abs	0.005 ng/mL	A01
Std1	1.517 Abs	< 0.000 ng/mL	B01
Std2	1.268 Abs	0.149 ng/mL	D01
Std3	1.104 Abs	0.438 ng/mL	E01
Std4	0.926 Abs	0.997 ng/mL	G01
Std4	0.987 Abs	0.768 ng/mL	H01
Std5	0.669 Abs	2.595 ng/mL	A02
Std5	0.641 Abs	2.860 ng/mL	B02
Std6	0.480 Abs	4.960 ng/mL	C02
Std6	0.492 Abs	4.760 ng/mL	D02
5/27/2016 12:30:16 PM			
Normal Control	1.101 Abs	0.444 ng/mL	E02
Normal Control	1.203 Abs	0.243 ng/mL	F02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.487	0.042	2.85				
Std2	1.268			0.149			-0.67
Std3	1.104			0.438			9.50
Std4	0.956	0.043	4.51	0.882	0.162	18.35	-11.80
Std5	0.655	0.020	3.02	2.727	0.187	6.87	9.08
Std6	0.486	0.008	1.75	4.860	0.141	2.91	-2.80
Normal Control	1.152	0.072	6.26	0.344	0.142	41.38	

