



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33078	Whitewater Memorial SP	6/11/2018	6/12/2018	< 0.060
AB33079	Quakertown SP	6/11/2018	6/12/2018	< 0.060
AB33080	Mounds SRA	6/11/2018	6/12/2018	< 0.060
AB33081	Hardy Lake SRA	6/11/2018	6/12/2018	< 0.060
AB33082	Deam Lake SRA	6/11/2018	6/12/2018	< 0.060
AB33076	Whitewater Memorial SP	6/11/2018	6/12/2018	< 0.060
AB33077	Field Blank	6/11/2018	6/12/2018	< 0.060
AB33070	Raccoon Lake SRA	6/11/2018	6/12/2018	< 0.060
AB33072	Paynetown SRA	6/11/2018	6/12/2018	< 0.060
AB33073	Fairfax SRA	6/11/2018	6/12/2018	< 0.060
AB33071	Starve Hollow SRA	6/11/2018	6/12/2018	< 0.060
AB33075	Field Blank	6/11/2018	6/12/2018	< 0.060
AB33347	Dog Park Lake	6/11/2018	6/12/2018	< 0.060
AB33073LD	Fairfax (Lab Duplicate)	6/11/2018	6/12/2018	< 0.060
20180611LB	Lab Blank	6/11/2018	6/12/2018	< 0.060



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/12/2018 2:24:40 PM						
Std1	Saxitoxin (PSP) ELISA	1.388 Abs	< 0.000 ng/mL		0.000	A01
Std1	Saxitoxin (PSP) ELISA	1.300 Abs	0.000 ng/mL		0.000	B01
Std2	Saxitoxin (PSP) ELISA	0.900 Abs	0.027 ng/mL		0.020	C01
Std2	Saxitoxin (PSP) ELISA	1.053 Abs	0.010 ng/mL		0.020	D01
Std3	Saxitoxin (PSP) ELISA	0.585 Abs	0.135 ng/mL		0.050	E01
Std3	Saxitoxin (PSP) ELISA	0.851 Abs	0.035 ng/mL		0.050	F01
Std4	Saxitoxin (PSP) ELISA	0.773 Abs	0.053 ng/mL		0.100	G01
Std4	Saxitoxin (PSP) ELISA	0.617 Abs	0.115 ng/mL		0.100	H01
Std5	Saxitoxin (PSP) ELISA	0.513 Abs	0.190 ng/mL		0.200	A02
Std5	Saxitoxin (PSP) ELISA	0.490 Abs	0.213 ng/mL		0.200	B02
Std6	Saxitoxin (PSP) ELISA	0.362 Abs	> 0.400 ng/mL		0.400	C02
Std6	Saxitoxin (PSP) ELISA	0.354 Abs	> 0.400 ng/mL		0.400	D02
Normal Control	Saxitoxin (PSP) ELISA	0.693 Abs	0.075 ng/mL			E02
Normal Control	Saxitoxin (PSP) ELISA	0.683 Abs	0.079 ng/mL			F02
AB33078	Saxitoxin (PSP) ELISA	0.893 Abs	0.033 ng/mL		0.000 - 0.400	G02
AB33078	Saxitoxin (PSP) ELISA	1.126 Abs [1.0095] [16.3	0.009 ng/mL [0.018] [80.8 CV]		0.000 - 0.400	H02
AB33079	Saxitoxin (PSP) ELISA	0.981 Abs	0.021 ng/mL		0.000 - 0.400	A03
AB33079	Saxitoxin (PSP) ELISA	0.981 Abs [0.9810] [0.0	0.021 ng/mL [0.021] [0.0 CV]		0.000 - 0.400	B03
AB33080	Saxitoxin (PSP) ELISA	0.783 Abs	0.055 ng/mL		0.000 - 0.400	C03
AB33080	Saxitoxin (PSP) ELISA	0.802 Abs [0.7925] [1.7	0.051 ng/mL [0.053] [5.3 CV]		0.000 - 0.400	D03
AB33081	Saxitoxin (PSP) ELISA	0.983 Abs	0.021 ng/mL		0.000 - 0.400	E03
AB33081	Saxitoxin (PSP) ELISA	1.089 Abs [1.0360] [7.2	0.011 ng/mL [0.015] [44.2 CV]		0.000 - 0.400	F03
AB33082	Saxitoxin (PSP) ELISA	0.815 Abs	0.047 ng/mL		0.000 - 0.400	G03
AB33082	Saxitoxin (PSP) ELISA	1.251 Abs [1.0330] [29.8	0.002 ng/mL [0.015] [129.9 CV]		0.000 - 0.400	H03
AB33076	Saxitoxin (PSP) ELISA	1.111 Abs	0.010 ng/mL		0.000 - 0.400	A04
AB33076	Saxitoxin (PSP) ELISA	0.981 Abs [1.0460] [8.8	0.021 ng/mL [0.014] [50.2 CV]		0.000 - 0.400	B04
AB33077	Saxitoxin (PSP) ELISA	1.045 Abs	0.014 ng/mL		0.000 - 0.400	C04
AB33077	Saxitoxin (PSP) ELISA	0.876 Abs [0.9605] [12.4	0.036 ng/mL [0.023] [62.2 CV]		0.000 - 0.400	D04
AB33070	Saxitoxin (PSP) ELISA	1.231 Abs	0.003 ng/mL		0.000 - 0.400	E04
AB33070	Saxitoxin (PSP) ELISA	0.949 Abs [1.0900] [18.3	0.025 ng/mL [0.011] [111.1 CV]		0.000 - 0.400	F04
AB33072	Saxitoxin (PSP) ELISA	1.012 Abs	0.018 ng/mL		0.000 - 0.400	G04
AB33072	Saxitoxin (PSP) ELISA	1.189 Abs [1.1005] [11.4	0.004 ng/mL [0.010] [90.0 CV]		0.000 - 0.400	H04
AB33073	Saxitoxin (PSP) ELISA	1.209 Abs	0.003 ng/mL		0.000 - 0.400	A05
AB33073	Saxitoxin (PSP) ELISA	1.011 Abs [1.1100] [12.6	0.018 ng/mL [0.010] [101.0 CV]		0.000 - 0.400	B05
AB33071	Saxitoxin (PSP) ELISA	0.777 Abs	0.057 ng/mL		0.000 - 0.400	C05
AB33071	Saxitoxin (PSP) ELISA	1.085 Abs [0.9310] [23.4	0.011 ng/mL [0.027] [95.7 CV]		0.000 - 0.400	D05
AB33075	Saxitoxin (PSP) ELISA	1.305 Abs	0.001 ng/mL		0.000 - 0.400	E05
AB33075	Saxitoxin (PSP) ELISA	1.217 Abs [1.2610] [4.9	0.003 ng/mL [0.002] [70.7 CV]		0.000 - 0.400	F05
AB33347	Saxitoxin (PSP) ELISA	0.721 Abs	0.073 ng/mL		0.000 - 0.400	G05
AB33347	Saxitoxin (PSP) ELISA	1.184 Abs [0.9525] [34.4	0.005 ng/mL [0.024] [123.3 CV]		0.000 - 0.400	H05
AB33073LD	Saxitoxin (PSP) ELISA	1.302 Abs	0.001 ng/mL		0.000 - 0.400	A06
AB33073LD	Saxitoxin (PSP) ELISA	0.847 Abs [1.0745] [29.9	0.041 ng/mL [0.012] [134.7 CV]		0.000 - 0.400	B06
20180611LB	Saxitoxin (PSP) ELISA	0.868 Abs	0.037 ng/mL		0.000 - 0.400	C06
20180611LB	Saxitoxin (PSP) ELISA	1.104 Abs [0.9860] [16.9	0.010 ng/mL [0.021] [81.2 CV]		0.000 - 0.400	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

6/14/18

Date



Assay Calibration Report

Assay Information

Assay Name: Saxitoxin (PSP) ELISA Units: ng/mL
 Assay Mode: 4-Parameter Logistic Weight # of decimals: 3
 Normal: 0.000 - 0.400 Assay Description:
 Linear: 0.000 - 0.400

Controls:

Normal Control

Standards:

Std1, Concentration = 0.000, Minimum number to use: 2
 Std2, Concentration = 0.020, Minimum number to use: 2
 Std3, Concentration = 0.050, Minimum number to use: 2
 Std4, Concentration = 0.100, Minimum number to use: 2
 Std5, Concentration = 0.200, Minimum number to use: 2
 Std6, Concentration = 0.400, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
6/12/2018 2:24:40 PM			
Std1	1.388 Abs	< 0.000 ng/mL	A01
Std1	1.300 Abs	0.001 ng/mL	B01
Std2	0.900 Abs	0.029 ng/mL	C01
Std2	1.053 Abs	0.013 ng/mL	D01
Std4	0.617 Abs	0.106 ng/mL	H01
Std5	0.513 Abs	0.174 ng/mL	A02
Std5	0.490 Abs	0.195 ng/mL	B02
Std6	0.362 Abs	> 0.400 ng/mL	C02
Std6	0.354 Abs	> 0.400 ng/mL	D02
6/12/2018 2:24:40 PM			
Normal Control	0.683 Abs	0.079 ng/mL	F02
Normal Control	0.693 Abs	0.075 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.344	0.062	4.63				
Std2	0.976	0.108	11.08	0.021	0.011	53.87	5.00
Std4	0.617			0.106			6.00
Std5	0.502	0.016	3.24	0.184	0.015	8.05	-8.00
Std6	0.358	0.006	1.58				-100.00
Normal Control	0.688	0.007	1.03	0.077	0.003	3.67	

