



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33083	Pokagon State Park	6/19/2018	6/20/2018	< 0.060
AB33084	Southern Basin Inn's Beach	6/19/2018	6/20/2018	< 0.060
AB33085	Chain O'Lakes State Park	6/19/2018	6/20/2018	0.356
AB33086	Kunkel Beach @ Quabache State Park	6/19/2018	6/20/2018	< 0.060
AB33087	Pokagon (Field Duplicate)	6/19/2018	6/20/2018	< 0.060
AB33088	Field Blank	6/19/2018	6/20/2018	< 0.060
AB33089	Potato Creek State Park	6/18/2018	6/20/2018	< 0.060
AB33090	Mississinewa Lake Miami SRA	6/18/2018	6/20/2018	< 0.060
AB33091	Lost Bridge West Lake SRA	6/18/2018	6/20/2018	< 0.060
AB33378	Dog Park Lake	6/18/2018	6/20/2018	< 0.060
AB33093	Field Blank	6/18/2018	6/20/2018	< 0.060
AB33090LD	Mississinewa (Lab Duplicate)	6/18/2018	6/20/2018	< 0.060
20180619LB	Lab Blank	6/19/2018	6/20/2018	< 0.060



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/20/2018 2:38:36 PM						
Std1	Saxitoxin (PSP) ELISA	1.373 Abs	0.000 ng/mL		0.000	A01
Std1	Saxitoxin (PSP) ELISA	1.389 Abs	< 0.000 ng/mL		0.000	B01
Std2	Saxitoxin (PSP) ELISA	1.126 Abs	0.015 ng/mL		0.020	C01
Std2	Saxitoxin (PSP) ELISA	1.034 Abs	0.023 ng/mL		0.020	D01
Std3	Saxitoxin (PSP) ELISA	0.836 Abs	0.052 ng/mL		0.050	E01
Std3	Saxitoxin (PSP) ELISA	0.810 Abs	0.057 ng/mL		0.050	F01
Std4	Saxitoxin (PSP) ELISA	0.697 Abs	0.087 ng/mL		0.100	G01
Std4	Saxitoxin (PSP) ELISA	0.649 Abs	0.104 ng/mL		0.100	H01
Std5	Saxitoxin (PSP) ELISA	0.491 Abs	0.196 ng/mL		0.200	A02
Std5	Saxitoxin (PSP) ELISA	0.491 Abs	0.196 ng/mL		0.200	B02
Std6	Saxitoxin (PSP) ELISA	0.363 Abs	0.374 ng/mL		0.400	C02
Std6	Saxitoxin (PSP) ELISA	0.331 Abs	> 0.400 ng/mL		0.400	D02
Normal Control	Saxitoxin (PSP) ELISA	0.677 Abs	0.094 ng/mL			E02
Normal Control	Saxitoxin (PSP) ELISA	0.723 Abs	0.079 ng/mL			F02
AB33083	Saxitoxin (PSP) ELISA	1.186 Abs	0.011 ng/mL		0.000 - 0.400	G02
AB33083	Saxitoxin (PSP) ELISA	1.084 Abs [1.1350] {6.4 CV}	0.020 ng/mL [0.015] {41.1 CV}		0.000 - 0.400	H02
AB33084	Saxitoxin (PSP) ELISA	1.154 Abs	0.014 ng/mL		0.000 - 0.400	A03
AB33084	Saxitoxin (PSP) ELISA	1.086 Abs [1.1200] {4.3 CV}	0.020 ng/mL [0.016] {25.0 CV}		0.000 - 0.400	B03
AB33085	Saxitoxin (PSP) ELISA	0.392 Abs	0.349 ng/mL		0.000 - 0.400	C03
AB33085	Saxitoxin (PSP) ELISA	0.384 Abs [0.3880] {1.5 CV}	0.365 ng/mL [0.356] {3.2 CV}		0.000 - 0.400	D03
AB33086	Saxitoxin (PSP) ELISA	1.021 Abs	0.027 ng/mL		0.000 - 0.400	E03
AB33086	Saxitoxin (PSP) ELISA	1.107 Abs [1.0640] {5.7 CV}	0.018 ng/mL [0.022] {28.3 CV}		0.000 - 0.400	F03
AB33087	Saxitoxin (PSP) ELISA	1.210 Abs	0.010 ng/mL		0.000 - 0.400	G03
AB33087	Saxitoxin (PSP) ELISA	0.812 Abs [1.0110] {27.8 CV}	0.063 ng/mL [0.029] {102.7 CV}		0.000 - 0.400	H03
AB33088	Saxitoxin (PSP) ELISA	1.302 Abs	0.003 ng/mL		0.000 - 0.400	A04
AB33088	Saxitoxin (PSP) ELISA	1.401 Abs [1.3515] {5.2 CV}	< 0.000 ng/mL [0.001]	Out(LR)	0.000 - 0.400	B04
AB33089	Saxitoxin (PSP) ELISA	1.302 Abs	0.003 ng/mL		0.000 - 0.400	C04
AB33089	Saxitoxin (PSP) ELISA	1.300 Abs [1.3010] {0.1 CV}	0.003 ng/mL [0.003] {0.0 CV}		0.000 - 0.400	D04
AB33090	Saxitoxin (PSP) ELISA	1.233 Abs	0.008 ng/mL		0.000 - 0.400	E04
AB33090	Saxitoxin (PSP) ELISA	1.327 Abs [1.2800] {5.2 CV}	0.002 ng/mL [0.004] {84.9 CV}		0.000 - 0.400	F04
AB33091	Saxitoxin (PSP) ELISA	1.194 Abs	0.011 ng/mL		0.000 - 0.400	G04
AB33091	Saxitoxin (PSP) ELISA	1.194 Abs [1.1940] {0.0 CV}	0.011 ng/mL [0.011] {0.0 CV}		0.000 - 0.400	H04
AB33378	Saxitoxin (PSP) ELISA	1.121 Abs	0.016 ng/mL		0.000 - 0.400	A05
AB33378	Saxitoxin (PSP) ELISA	1.106 Abs [1.1135] {1.0 CV}	0.018 ng/mL [0.018] {8.3 CV}		0.000 - 0.400	B05
AB33093	Saxitoxin (PSP) ELISA	1.192 Abs	0.011 ng/mL		0.000 - 0.400	C05
AB33093	Saxitoxin (PSP) ELISA	1.086 Abs [1.1390] {6.6 CV}	0.020 ng/mL [0.015] {41.1 CV}		0.000 - 0.400	D05
AB33090LD	Saxitoxin (PSP) ELISA	1.109 Abs	0.018 ng/mL		0.000 - 0.400	E05
AB33090LD	Saxitoxin (PSP) ELISA	1.196 Abs [1.1525] {5.3 CV}	0.010 ng/mL [0.014] {40.4 CV}		0.000 - 0.400	F05
20180619LB	Saxitoxin (PSP) ELISA	1.137 Abs	0.015 ng/mL		0.000 - 0.400	G05
20180619LB	Saxitoxin (PSP) ELISA	1.222 Abs [1.1795] {5.1 CV}	0.009 ng/mL [0.012] {35.4 CV}		0.000 - 0.400	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

6/20/18

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
6/20/2018 2:38:36 PM			
Std1	1.373 Abs	0.000 ng/mL	A01
Std1	1.389 Abs	< 0.000 ng/mL	B01
Std2	1.126 Abs	0.015 ng/mL	C01
Std2	1.034 Abs	0.023 ng/mL	D01
Std3	0.836 Abs	0.052 ng/mL	E01
Std3	0.810 Abs	0.057 ng/mL	F01
Std4	0.697 Abs	0.087 ng/mL	G01
Std4	0.649 Abs	0.104 ng/mL	H01
Std5	0.491 Abs	0.196 ng/mL	A02
Std5	0.491 Abs	0.196 ng/mL	B02
Std6	0.363 Abs	0.374 ng/mL	C02
Std6	0.331 Abs	> 0.400 ng/mL	D02
6/20/2018 2:38:36 PM			
Normal Control	0.723 Abs	0.079 ng/mL	F02
Normal Control	0.677 Abs	0.094 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.381	0.011	0.82				
Std2	1.080	0.065	6.02	0.019	0.006	29.77	-5.00
Std3	0.823	0.018	2.23	0.054	0.004	6.49	8.00
Std4	0.673	0.034	5.04	0.095	0.012	12.59	-5.00
Std5	0.491	0.000	0.00	0.196	0.000	0.00	-2.00
Std6	0.347	0.023	6.52				-100.00
Normal Control	0.700	0.033	4.65	0.087	0.011	12.26	

