



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33731	Fairfax SRA	7/23/2018	7/26/2018	< 0.060
AB33732	Hardy Lake SRA	7/23/2018	7/26/2018	< 0.060
AB33733	Paynetown SRA	7/23/2018	7/26/2018	< 0.060
AB33734	Quakertown SRA	7/24/2018	7/26/2018	< 0.060
AB33735	Raccoon Lake SRA	7/23/2018	7/26/2018	< 0.060
AB33736	Starve Hollow SRA	7/23/2018	7/26/2018	0.156
AB33737	Whitewater Memorial SP	7/24/2018	7/26/2018	< 0.060
AB33738	Raccoon Lake (Field Duplicate)	7/23/2018	7/26/2018	< 0.060
AB33739	Field Blank	7/23/2018	7/26/2018	< 0.060
AB33740	Dog Park Lake	7/23/2018	7/26/2018	< 0.060
AB33755	Deam Lake SRA	7/24/2018	7/26/2018	< 0.060
AB33731LD	Fairfax (Lab Duplicate)	7/23/2018	7/26/2018	< 0.060
20180724LB	Lab Blank	7/24/2018	7/26/2018	< 0.060



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/26/2018 10:05:43 AM						
Std1	Saxitoxin (PSP) ELISA	1.336 Abs	0.000 ng/mL		0.000	A01
Std1	Saxitoxin (PSP) ELISA	1.336 Abs	0.000 ng/mL		0.000	B01
Std2	Saxitoxin (PSP) ELISA	1.121 Abs	0.020 ng/mL		0.020	C01
Std2	Saxitoxin (PSP) ELISA	1.129 Abs	0.019 ng/mL		0.020	D01
Std3	Saxitoxin (PSP) ELISA	0.855 Abs	0.053 ng/mL		0.050	E01
Std3	Saxitoxin (PSP) ELISA	0.891 Abs	0.048 ng/mL		0.050	F01
Std4	Saxitoxin (PSP) ELISA	0.636 Abs	0.104 ng/mL		0.100	G01
Std4	Saxitoxin (PSP) ELISA	0.658 Abs	0.097 ng/mL		0.100	H01
Std5	Saxitoxin (PSP) ELISA	0.462 Abs	0.197 ng/mL		0.200	A02
Std5	Saxitoxin (PSP) ELISA	0.463 Abs	0.197 ng/mL		0.200	B02
Std6	Saxitoxin (PSP) ELISA	0.347 Abs	0.376 ng/mL		0.400	C02
Std6	Saxitoxin (PSP) ELISA	0.327 Abs	> 0.400 ng/mL		0.400	D02
Normal Control	Saxitoxin (PSP) ELISA	0.735 Abs	0.076 ng/mL			E02
Normal Control	Saxitoxin (PSP) ELISA	0.738 Abs	0.076 ng/mL			F02
AB33731	Saxitoxin (PSP) ELISA	1.225 Abs	0.012 ng/mL		0.000 - 0.400	G02
AB33731	Saxitoxin (PSP) ELISA	1.236 Abs [1.2305] {0.6 CV}	0.011 ng/mL [0.011] {6.1 CV}		0.000 - 0.400	H02
AB33732	Saxitoxin (PSP) ELISA	0.949 Abs	0.043 ng/mL		0.000 - 0.400	A03
AB33732	Saxitoxin (PSP) ELISA	0.971 Abs [0.9600] {1.6 CV}	0.041 ng/mL [0.042] {3.4 CV}		0.000 - 0.400	B03
AB33733	Saxitoxin (PSP) ELISA	1.165 Abs	0.018 ng/mL		0.000 - 0.400	C03
AB33733	Saxitoxin (PSP) ELISA	1.118 Abs [1.1415] {2.9 CV}	0.022 ng/mL [0.020] {14.1 CV}		0.000 - 0.400	D03
AB33734	Saxitoxin (PSP) ELISA	1.278 Abs	0.007 ng/mL		0.000 - 0.400	E03
AB33734	Saxitoxin (PSP) ELISA	1.281 Abs [1.2795] {0.2 CV}	0.007 ng/mL [0.007] {0.0 CV}		0.000 - 0.400	F03
AB33735	Saxitoxin (PSP) ELISA	1.258 Abs	0.009 ng/mL		0.000 - 0.400	G03
AB33735	Saxitoxin (PSP) ELISA	1.336 Abs [1.2970] {4.3 CV}	0.000 ng/mL [0.004] {141.4 CV}		0.000 - 0.400	H03
AB33736	Saxitoxin (PSP) ELISA	0.547 Abs	0.155 ng/mL		0.000 - 0.400	A04
AB33736	Saxitoxin (PSP) ELISA	0.541 Abs [0.5440] {0.8 CV}	0.158 ng/mL [0.156] {1.4 CV}		0.000 - 0.400	B04
AB33737	Saxitoxin (PSP) ELISA	1.254 Abs	0.009 ng/mL		0.000 - 0.400	C04
AB33737	Saxitoxin (PSP) ELISA	1.262 Abs [1.2580] {0.4 CV}	0.008 ng/mL [0.009] {8.3 CV}		0.000 - 0.400	D04
AB33738	Saxitoxin (PSP) ELISA	1.284 Abs	0.005 ng/mL		0.000 - 0.400	E04
AB33738	Saxitoxin (PSP) ELISA	1.243 Abs [1.2635] {2.3 CV}	0.010 ng/mL [0.008] {47.1 CV}		0.000 - 0.400	F04
AB33739	Saxitoxin (PSP) ELISA	1.346 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	G04
AB33739	Saxitoxin (PSP) ELISA	1.342 Abs [1.3440] {0.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	H04
AB33740	Saxitoxin (PSP) ELISA	1.201 Abs	0.014 ng/mL		0.000 - 0.400	A05
AB33740	Saxitoxin (PSP) ELISA	1.143 Abs [1.1720] {3.5 CV}	0.020 ng/mL [0.016] {25.0 CV}		0.000 - 0.400	B05
AB33755	Saxitoxin (PSP) ELISA	1.181 Abs	0.016 ng/mL		0.000 - 0.400	C05
AB33755	Saxitoxin (PSP) ELISA	1.238 Abs [1.2095] {3.3 CV}	0.010 ng/mL [0.013] {32.6 CV}		0.000 - 0.400	D05
AB33731LD	Saxitoxin (PSP) ELISA	1.226 Abs	0.012 ng/mL		0.000 - 0.400	E05
AB33731LD	Saxitoxin (PSP) ELISA	1.202 Abs [1.2140] {1.4 CV}	0.014 ng/mL [0.013] {10.9 CV}		0.000 - 0.400	F05
20180724LB	Saxitoxin (PSP) ELISA	1.287 Abs	0.005 ng/mL		0.000 - 0.400	G05
20180724LB	Saxitoxin (PSP) ELISA	1.336 Abs [1.3115] {2.6 CV}	0.000 ng/mL [0.003] {141.4 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.

Laboratory Analyst Signature

7/26/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Saxitoxin (PSP) ELISA
Assay Mode: 4-Parameter Logistic Weight by:None
Normal: 0.000 - 0.400
Linear: 0.000 - 0.400

Units: ng/mL
of decimals: 3
Assay Description: 1X

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
7/26/2018 10:05:43 AM			
Std1	1.336 Abs	0.000 ng/mL	A01
Std1	1.336 Abs	0.000 ng/mL	B01
Std2	1.121 Abs	0.020 ng/mL	C01
Std2	1.129 Abs	0.019 ng/mL	D01
Std3	0.855 Abs	0.053 ng/mL	E01
Std3	0.891 Abs	0.048 ng/mL	F01
Std4	0.636 Abs	0.104 ng/mL	G01
Std4	0.658 Abs	0.097 ng/mL	H01
Std5	0.462 Abs	0.197 ng/mL	A02
Std5	0.463 Abs	0.197 ng/mL	B02
Std6	0.347 Abs	0.376 ng/mL	C02
Std6	0.327 Abs	> 0.400 ng/mL	D02
7/26/2018 10:05:43 AM			
Normal Control	0.735 Abs	0.076 ng/mL	E02
Normal Control	0.738 Abs	0.076 ng/mL	F02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.336	0.000	0.00	0.000	0.000	0.00	
Std2	1.125	0.006	0.50	0.019	0.001	3.63	-5.00
Std3	0.873	0.025	2.92	0.050	0.004	7.00	-0.00
Std4	0.647	0.016	2.40	0.101	0.005	4.93	1.00
Std5	0.463	0.001	0.15	0.197	0.000	0.00	-1.50
Std6	0.337	0.014	4.20				-100.00
Normal Control	0.737	0.002	0.29	0.076	0.000	0.00	

