



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

| Sample # | Location | Date Collected | Date Analyzed | Conc. (ppb) |
|------------|------------------------------|----------------|---------------|-------------|
| AB32876 | Quakertown SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32877 | Raccoon Lake SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32878 | Mounds SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32879 | Whitewater Memorial SP | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32880 | Quakertown (Field Duplicate) | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32881 | Field Blank | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32871 | Starve Hollow SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32872 | Fairfax SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32873 | Paynetown SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32874 | Deam Lake SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32875 | Hardy Lake SRA | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32869 | Deam Lake (Field Duplicate) | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32870 | Field Blank | 5/14/2018 | 5/15/2018 | < 0.060 |
| AB32878LD | Mounds (Lab Duplicate) | 5/14/2018 | 5/15/2018 | < 0.060 |
| 20180514LB | Lab Blank | 5/14/2018 | 5/15/2018 | < 0.060 |



Test Report

Test Information

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Reference | Position |
|----------------------|-----------------------|---------------------------|--------------------------------|----------------|---------------|----------|
| 5/15/2018 1:54:02 PM | | | | | | |
| Std1 | Saxitoxin (PSP) ELISA | 0.940 Abs | 0.048 ng/mL | | 0.000 | A01 |
| Std1 | Saxitoxin (PSP) ELISA | 1.295 Abs | < 0.000 ng/mL | | 0.000 | B01 |
| Std2 | Saxitoxin (PSP) ELISA | 1.056 Abs | 0.029 ng/mL | | 0.020 | C01 |
| Std2 | Saxitoxin (PSP) ELISA | 1.284 Abs | < 0.000 ng/mL | | 0.020 | D01 |
| Std3 | Saxitoxin (PSP) ELISA | 0.890 Abs | 0.056 ng/mL | | 0.050 | E01 |
| Std3 | Saxitoxin (PSP) ELISA | 0.861 Abs | 0.061 ng/mL | | 0.050 | F01 |
| Std4 | Saxitoxin (PSP) ELISA | 0.687 Abs | 0.096 ng/mL | | 0.100 | G01 |
| Std4 | Saxitoxin (PSP) ELISA | 0.712 Abs | 0.090 ng/mL | | 0.100 | H01 |
| Std5 | Saxitoxin (PSP) ELISA | 0.495 Abs | 0.177 ng/mL | | 0.200 | A02 |
| Std5 | Saxitoxin (PSP) ELISA | 0.439 Abs | 0.236 ng/mL | | 0.200 | B02 |
| Std6 | Saxitoxin (PSP) ELISA | 0.359 Abs | > 0.400 ng/mL | | 0.400 | C02 |
| Std6 | Saxitoxin (PSP) ELISA | 0.395 Abs | 0.339 ng/mL | | 0.400 | D02 |
| Normal Control | Saxitoxin (PSP) ELISA | 0.620 Abs | 0.124 ng/mL | | | E02 |
| Normal Control | Saxitoxin (PSP) ELISA | 0.842 Abs | 0.055 ng/mL | | | F02 |
| AB32876 | Saxitoxin (PSP) ELISA | 0.776 Abs | 0.077 ng/mL | | 0.000 - 0.400 | G02 |
| AB32876 | Saxitoxin (PSP) ELISA | 0.999 Abs [0.8875] {17.8 | 0.032 ng/mL [0.051] {58.4 CV} | | 0.000 - 0.400 | H02 |
| AB32877 | Saxitoxin (PSP) ELISA | 1.187 Abs | 0.009 ng/mL | | 0.000 - 0.400 | A03 |
| AB32877 | Saxitoxin (PSP) ELISA | 0.833 Abs [1.0100] {24.8 | 0.063 ng/mL [0.030] {106.1 CV} | | 0.000 - 0.400 | B03 |
| AB32878 | Saxitoxin (PSP) ELISA | 0.969 Abs | 0.036 ng/mL | | 0.000 - 0.400 | C03 |
| AB32878 | Saxitoxin (PSP) ELISA | 1.157 Abs [1.0630] {12.5 | 0.012 ng/mL [0.023] {70.7 CV} | | 0.000 - 0.400 | D03 |
| AB32879 | Saxitoxin (PSP) ELISA | 0.994 Abs | 0.032 ng/mL | | 0.000 - 0.400 | E03 |
| AB32879 | Saxitoxin (PSP) ELISA | 1.251 Abs [1.1225] {16.2 | 0.003 ng/mL [0.015] {117.2 CV} | | 0.000 - 0.400 | F03 |
| AB32880 | Saxitoxin (PSP) ELISA | 0.904 Abs | 0.047 ng/mL | | 0.000 - 0.400 | G03 |
| AB32880 | Saxitoxin (PSP) ELISA | 0.956 Abs [0.9300] {4.0 C | 0.038 ng/mL [0.043] {15.0 CV} | | 0.000 - 0.400 | H03 |
| AB32881 | Saxitoxin (PSP) ELISA | 1.014 Abs | 0.030 ng/mL | | 0.000 - 0.400 | A04 |
| AB32881 | Saxitoxin (PSP) ELISA | 0.972 Abs [0.9930] {3.0 C | 0.035 ng/mL [0.032] {10.9 CV} | | 0.000 - 0.400 | B04 |
| AB32871 | Saxitoxin (PSP) ELISA | 0.993 Abs | 0.032 ng/mL | | 0.000 - 0.400 | C04 |
| AB32871 | Saxitoxin (PSP) ELISA | 0.900 Abs [0.9465] {6.9 C | 0.048 ng/mL [0.040] {28.3 CV} | | 0.000 - 0.400 | D04 |
| AB32872 | Saxitoxin (PSP) ELISA | 0.985 Abs | 0.034 ng/mL | | 0.000 - 0.400 | E04 |
| AB32872 | Saxitoxin (PSP) ELISA | 0.795 Abs [0.8900] {15.1 | 0.073 ng/mL [0.051] {51.5 CV} | | 0.000 - 0.400 | F04 |
| AB32873 | Saxitoxin (PSP) ELISA | 1.112 Abs | 0.016 ng/mL | | 0.000 - 0.400 | G04 |
| AB32873 | Saxitoxin (PSP) ELISA | 0.908 Abs [1.0100] {14.3 | 0.047 ng/mL [0.030] {69.6 CV} | | 0.000 - 0.400 | H04 |
| AB32874 | Saxitoxin (PSP) ELISA | 0.897 Abs | 0.048 ng/mL | | 0.000 - 0.400 | A05 |
| AB32874 | Saxitoxin (PSP) ELISA | 0.978 Abs [0.9375] {6.1 C | 0.035 ng/mL [0.042] {22.2 CV} | | 0.000 - 0.400 | B05 |
| AB32875 | Saxitoxin (PSP) ELISA | 1.066 Abs | 0.022 ng/mL | | 0.000 - 0.400 | C05 |
| AB32875 | Saxitoxin (PSP) ELISA | 0.814 Abs [0.9400] {19.0 | 0.067 ng/mL [0.041] {71.5 CV} | | 0.000 - 0.400 | D05 |
| AB32869 | Saxitoxin (PSP) ELISA | 1.008 Abs | 0.030 ng/mL | | 0.000 - 0.400 | E05 |
| AB32869 | Saxitoxin (PSP) ELISA | 1.078 Abs [1.0430] {4.7 C | 0.021 ng/mL [0.025] {25.0 CV} | | 0.000 - 0.400 | F05 |
| AB32870 | Saxitoxin (PSP) ELISA | 0.993 Abs | 0.032 ng/mL | | 0.000 - 0.400 | G05 |
| AB32870 | Saxitoxin (PSP) ELISA | 0.945 Abs [0.9690] {3.5 C | 0.040 ng/mL [0.036] {15.7 CV} | | 0.000 - 0.400 | H05 |
| AB32878LD | Saxitoxin (PSP) ELISA | 1.055 Abs | 0.024 ng/mL | | 0.000 - 0.400 | A06 |
| AB32878LD | Saxitoxin (PSP) ELISA | 0.755 Abs [0.9050] {23.4 | 0.084 ng/mL [0.047] {78.6 CV} | | 0.000 - 0.400 | B06 |
| 20180514LB | Saxitoxin (PSP) ELISA | 0.895 Abs | 0.050 ng/mL | | 0.000 - 0.400 | C06 |
| 20180514LB | Saxitoxin (PSP) ELISA | 0.818 Abs [0.8565] {6.4 C | 0.066 ng/mL [0.057] {19.5 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

5/15/18

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 |
|----------------------|------------|---------------|----------|
| 5/15/2018 1:54:02 PM | | | |
| Std1 | 1.295 Abs | < 0.000 ng/mL | B01 |
| Std2 | 1.056 Abs | 0.021 ng/mL | C01 |
| Std3 | 0.890 Abs | 0.046 ng/mL | E01 |
| Std3 | 0.861 Abs | 0.051 ng/mL | F01 |
| Std4 | 0.687 Abs | 0.097 ng/mL | G01 |
| Std4 | 0.712 Abs | 0.089 ng/mL | H01 |
| Std5 | 0.495 Abs | 0.205 ng/mL | A02 |
| Std5 | 0.439 Abs | 0.264 ng/mL | B02 |
| Std6 | 0.359 Abs | > 0.400 ng/mL | C02 |
| Std6 | 0.395 Abs | 0.332 ng/mL | D02 |
| 5/15/2018 1:54:02 PM | | | |
| Normal Control | 0.842 Abs | 0.055 ng/mL | F02 |
| Normal Control | 0.620 Abs | 0.124 ng/mL | E02 |

| Name | Mean Abs | SD Abs | CV Abs | Mean Conc | SD Conc | CV Conc | Diff Conc |
|----------------|----------|--------|--------|-----------|---------|---------|-----------|
| Std1 | 1.295 | | | | | | |
| Std2 | 1.056 | | | 0.021 | | | 5.00 |
| Std3 | 0.875 | 0.021 | 2.34 | 0.049 | 0.004 | 7.29 | -2.00 |
| Std4 | 0.699 | 0.018 | 2.53 | 0.093 | 0.006 | 6.08 | -7.00 |
| Std5 | 0.467 | 0.040 | 8.48 | 0.234 | 0.042 | 17.79 | 17.00 |
| Std6 | 0.377 | 0.025 | 6.75 | | | | -100.00 |
| Normal Control | 0.731 | 0.157 | 21.47 | 0.089 | 0.049 | 54.51 | |

