



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

| Sample # | Location | Date Collected | Date Analyzed | Conc. (ppb) |
|------------|----------------------------------|----------------|---------------|-------------|
| AB34027 | Field Blank | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34024 | Potato Creek SP | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34025 | Lost Bridge West SRA | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34025LD | Lost Bridge West (Lab Duplicate) | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34026 | Potato Creek (Field Duplicate) | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34023 | Mississinewa Lake Miami SRA | 8/27/2018 | 8/29/2018 | < 0.060 |
| AB34028 | Dog Park Lake | 8/27/2018 | 8/29/2018 | < 0.060 |
| 20180828LB | Lab Blank | 8/28/2018 | 8/29/2018 | < 0.060 |



Test Report

Test Information

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Reference | Position |
|----------------------|-----------------------|-----------------------------|-------------------------------|-------------------|---------------|----------|
| 8/29/2018 9:40:10 AM | | | | | | |
| Std1 | Saxitoxin (PSP) ELISA | 1.333 Abs | < 0.000 ng/mL | | 0.000 | A01 |
| Std1 | Saxitoxin (PSP) ELISA | 1.279 Abs | 0.005 ng/mL | | 0.000 | B01 |
| Std2 | Saxitoxin (PSP) ELISA | 1.115 Abs | 0.021 ng/mL | | 0.020 | C01 |
| Std2 | Saxitoxin (PSP) ELISA | 1.172 Abs | 0.016 ng/mL | | 0.020 | D01 |
| Std3 | Saxitoxin (PSP) ELISA | 0.787 Abs | 0.060 ng/mL | | 0.050 | E01 |
| Std3 | Saxitoxin (PSP) ELISA | 0.878 Abs | 0.047 ng/mL | | 0.050 | F01 |
| Std4 | Saxitoxin (PSP) ELISA | 0.605 Abs | 0.103 ng/mL | | 0.100 | G01 |
| Std4 | Saxitoxin (PSP) ELISA | 0.653 Abs | 0.089 ng/mL | | 0.100 | H01 |
| Std5 | Saxitoxin (PSP) ELISA | 0.444 Abs | 0.202 ng/mL | | 0.200 | A02 |
| Std5 | Saxitoxin (PSP) ELISA | 0.460 Abs | 0.185 ng/mL | | 0.200 | B02 |
| Std6 | Saxitoxin (PSP) ELISA | 0.350 Abs | > 0.400 ng/mL | | 0.400 | C02 |
| Std6 | Saxitoxin (PSP) ELISA | 0.352 Abs | > 0.400 ng/mL | | 0.400 | D02 |
| Normal Control | Saxitoxin (PSP) ELISA | 0.770 Abs | 0.063 ng/mL | | | E02 |
| Normal Control | Saxitoxin (PSP) ELISA | 0.834 Abs | 0.053 ng/mL | | | F02 |
| AB34027 | Saxitoxin (PSP) ELISA | 1.335 Abs | < 0.000 ng/mL | Out(LR) | 0.000 - 0.400 | G02 |
| AB34027 | Saxitoxin (PSP) ELISA | 1.306 Abs [1.3205] {1.6 CV} | 0.001 ng/mL [< 0.000] | [Out(LR)] | 0.000 - 0.400 | H02 |
| AB34024 | Saxitoxin (PSP) ELISA | 1.125 Abs | 0.022 ng/mL | | 0.000 - 0.400 | A03 |
| AB34024 | Saxitoxin (PSP) ELISA | 1.137 Abs [1.1310] {0.8 CV} | 0.021 ng/mL [0.022] {3.3 CV} | | 0.000 - 0.400 | B03 |
| AB34025 | Saxitoxin (PSP) ELISA | 1.093 Abs | 0.025 ng/mL | | 0.000 - 0.400 | C03 |
| AB34025 | Saxitoxin (PSP) ELISA | 1.076 Abs [1.0845] {1.1 CV} | 0.027 ng/mL [0.026] {5.4 CV} | | 0.000 - 0.400 | D03 |
| AB34025LD | Saxitoxin (PSP) ELISA | 1.078 Abs | 0.027 ng/mL | | 0.000 - 0.400 | E03 |
| AB34025LD | Saxitoxin (PSP) ELISA | 1.113 Abs [1.0955] {2.3 CV} | 0.023 ng/mL [0.025] {11.3 CV} | | 0.000 - 0.400 | F03 |
| AB34026 | Saxitoxin (PSP) ELISA | 1.161 Abs | 0.019 ng/mL | | 0.000 - 0.400 | G03 |
| AB34026 | Saxitoxin (PSP) ELISA | 1.190 Abs [1.1755] {1.7 CV} | 0.015 ng/mL [0.018] {16.6 CV} | | 0.000 - 0.400 | H03 |
| AB34023 | Saxitoxin (PSP) ELISA | 1.278 Abs | 0.005 ng/mL | | 0.000 - 0.400 | A04 |
| AB34023 | Saxitoxin (PSP) ELISA | 1.317 Abs [1.2975] {2.1 CV} | < 0.000 ng/mL [0.003] | Out(LR) | 0.000 - 0.400 | B04 |
| AB34028 | Saxitoxin (PSP) ELISA | 1.248 Abs | 0.010 ng/mL | | 0.000 - 0.400 | C04 |
| AB34028 | Saxitoxin (PSP) ELISA | 1.256 Abs [1.2520] {0.5 CV} | 0.009 ng/mL [0.009] {7.4 CV} | | 0.000 - 0.400 | D04 |
| 20180828LB | Saxitoxin (PSP) ELISA | 1.347 Abs | < 0.000 ng/mL | Out(LR) | 0.000 - 0.400 | E04 |
| 20180828LB | Saxitoxin (PSP) ELISA | 1.363 Abs [1.3550] {0.8 CV} | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.000 - 0.400 | F04 |

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

8/29/2018

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 |
|----------------------|------------|---------------|----------|
| 8/29/2018 9:40:10 AM | | | |
| Std1 | 1.333 Abs | < 0.000 ng/mL | A01 |
| Std1 | 1.279 Abs | 0.005 ng/mL | B01 |
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| Std3 | 0.878 Abs | 0.047 ng/mL | F01 |
| Std4 | 0.605 Abs | 0.103 ng/mL | G01 |
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| Std6 | 0.350 Abs | > 0.400 ng/mL | C02 |
| Std6 | 0.352 Abs | > 0.400 ng/mL | D02 |
| 8/29/2018 9:40:10 AM | | | |
| Normal Control | 0.834 Abs | 0.053 ng/mL | F02 |
| Normal Control | 0.770 Abs | 0.063 ng/mL | E02 |

| Name | Mean Abs | SD Abs | CV Abs | Mean Conc | SD Conc | CV Conc | Diff Conc |
|----------------|----------|--------|--------|-----------|---------|---------|-----------|
| Std1 | 1.306 | 0.038 | 2.92 | | | | |
| Std2 | 1.144 | 0.040 | 3.52 | 0.019 | 0.004 | 19.11 | -5.00 |
| Std3 | 0.832 | 0.064 | 7.73 | 0.053 | 0.009 | 17.18 | 6.00 |
| Std4 | 0.629 | 0.034 | 5.40 | 0.096 | 0.010 | 10.31 | -4.00 |
| Std5 | 0.452 | 0.011 | 2.50 | 0.194 | 0.012 | 6.21 | -3.00 |
| Std6 | 0.351 | 0.001 | 0.40 | | | | -100.00 |
| Normal Control | 0.802 | 0.045 | 5.64 | 0.058 | 0.007 | 12.19 | |

