



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC45396	Pokagon SP - Main Beach	6/16/2025	6/19/2025	< 0.40
AC45397	Pokagon SP - Potawatomi Inn Beach	6/16/2025	6/19/2025	< 0.40
AC45398	Chain O'Lakes SP - Sand Lake Beach	6/16/2025	6/19/2025	< 0.40
AC45399	Ouabache SP - Kunkel Lake Beach	6/16/2025	6/19/2025	< 0.40
AC45400	Potato Creek SP - Worster Lake Beach	6/17/2025	6/19/2025	< 0.40
AC45401	Mississinewa Lake - Miami SRA Beach	6/17/2025	6/19/2025	< 0.40
AC45402	Salamonie Lake - Lost Bridge West SRA Beach	6/17/2025	6/19/2025	< 0.40
AC45403	Summit Lake SP - Summit Lake Beach	6/17/2025	6/19/2025	< 0.40
AC45404	Salamonie Lake - Lost Bridge West SRA Beach (Field Duplicate)	6/17/2025	6/19/2025	< 0.40
AC45405	Field Blank	6/17/2025	6/19/2025	< 0.40
AC45406	Lincoln SP - Lake Lincoln Beach	6/16/2025	6/19/2025	< 0.40
AC45407	Ferdinand State Forest - Ferdinand Lake Beach	6/16/2025	6/19/2025	< 0.40
AC45408	Patoka Lake - Newton Stewart SRA	6/16/2025	6/19/2025	< 0.40

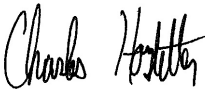
Test Report (by Request)

Test Information

Request: 6/19/2025 2:56:38 PM
Date: 6/19/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.546 Abs	0.000 µg/L	R^2=0.99930, 101.4		0.000	Kit:P23L3i
ATX Std 0	ANATOXIN	1.501 Abs [1.5235] {2.1 C	0.011 µg/L [0.006]	R^2=0.99930, 98.4		0.000	Kit:P23L3i
ATX Std 1	ANATOXIN	1.305 Abs	0.121 µg/L	R^2=0.99930, 85.6		0.150	Kit:P23L3i
ATX Std 1	ANATOXIN	1.234 Abs [1.2695] {4.0 C	0.171 µg/L [0.146]	R^2=0.99930, 80.9		0.150	Kit:P23L3i
ATX Std 2	ANATOXIN	0.990 Abs	0.407 µg/L	R^2=0.99930, 64.9		0.400	Kit:P23L3i
ATX Std 2	ANATOXIN	0.995 Abs [0.9925] {0.4 C	0.401 µg/L [0.404]	R^2=0.99930, 65.2		0.400	Kit:P23L3i
ATX Std 3	ANATOXIN	0.669 Abs	1.006 µg/L	R^2=0.99930, 43.8		1.000	Kit:P23L3i
ATX Std 3	ANATOXIN	0.646 Abs [0.6575] {2.5 C	1.073 µg/L [1.040]	R^2=0.99930, 42.3		1.000	Kit:P23L3i
ATX Std 4	ANATOXIN	0.419 Abs	2.159 µg/L	R^2=0.99930, 27.4		2.500	Kit:P23L3i
ATX Std 4	ANATOXIN	0.383 Abs [0.4010] {6.3 C	2.456 µg/L [2.308]	R^2=0.99930, 25.1		2.500	Kit:P23L3i
ATX Std 5	ANATOXIN	0.217 Abs	> 5.000 µg/L	14.239 %Abs		5.000	Kit:P23L3i
ATX Std 5	ANATOXIN	0.206 Abs [0.2115] {3.7 C	> 5.000 µg/L	13.517 %Abs		5.000	Kit:P23L3i
ATX Control	ANATOXIN	0.819 Abs	0.664 µg/L	53.740 %Abs			Kit:P23L3i
ATX Control	ANATOXIN	0.801 Abs [0.8100] {1.6 C	0.698 µg/L [0.681]	52.559 %Abs [53.1			Kit:P23L3i

Note

Signature 

Test Report (by Request)

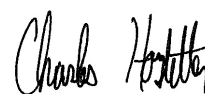
Test Information

Request: 6/19/2025 3:19:49 PM
Date: 6/19/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	ANATOXIN	1.397 Abs	0.064 µg/L	Low, 91.667 %Abs		0.150 - 5.000	Kit:P23L3I
LRB	ANATOXIN	1.375 Abs [1.3860] {1.1 C	0.077 µg/L [0.071]	Low, 90.223 %Abs		0.150 - 5.000	Kit:P23L3I
LFB (ANA)	ANATOXIN	0.820 Abs	0.662 µg/L	53.806 %Abs		0.150 - 5.000	Kit:P23L3I
LFB (ANA)	ANATOXIN	0.791 Abs [0.8055] {2.5 C	0.718 µg/L [0.690]	51.903 %Abs [52.8		0.150 - 5.000	Kit:P23L3I
AC45396	ANATOXIN	1.429 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45396	ANATOXIN	1.425 Abs [1.4270] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45397	ANATOXIN	1.389 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45397	ANATOXIN	1.402 Abs [1.3955] {0.7 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45398	ANATOXIN	1.385 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45398	ANATOXIN	1.368 Abs [1.3765] {0.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45398MS	ANATOXIN	0.814 Abs	0.673 µg/L	53.412 %Abs		0.150 - 5.000	Kit:P23L3I
AC45398MS	ANATOXIN	0.776 Abs [0.7950] {3.4 C	0.748 µg/L [0.711]	50.919 %Abs [52.1		0.150 - 5.000	Kit:P23L3I
AC45398MSD	ANATOXIN	0.780 Abs	0.740 µg/L	51.181 %Abs		0.150 - 5.000	Kit:P23L3I
AC45398MSD	ANATOXIN	0.752 Abs [0.7660] {2.6 C	0.799 µg/L [0.770]	49.344 %Abs [50.2		0.150 - 5.000	Kit:P23L3I
AC45399	ANATOXIN	1.374 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45399	ANATOXIN	1.358 Abs [1.3660] {0.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45400	ANATOXIN	1.344 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45400	ANATOXIN	1.320 Abs [1.3320] {1.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45401	ANATOXIN	1.469 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45401	ANATOXIN	1.426 Abs [1.4475] {2.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45402	ANATOXIN	1.441 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45402	ANATOXIN	1.410 Abs [1.4255] {1.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45403	ANATOXIN	1.385 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45403	ANATOXIN	1.375 Abs [1.3800] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45404	ANATOXIN	1.378 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45404	ANATOXIN	1.350 Abs [1.3640] {1.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45405	ANATOXIN	1.457 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45405	ANATOXIN	1.462 Abs [1.4595] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45406	ANATOXIN	1.420 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45406	ANATOXIN	1.410 Abs [1.4150] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45407	ANATOXIN	1.363 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45407	ANATOXIN	1.370 Abs [1.3665] {0.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45408	ANATOXIN	1.356 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I
AC45408	ANATOXIN	1.356 Abs [1.3560] {0.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:P23L3I

Note

Signature



Assay Information

Assay Name: ANATOXIN
 Version: 2
 Temperature: Room Temperature
 Last Modified By: Security disabled
 Units: µg/L
 Assay Description: PN 520060
 Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
 Well Type: Flat bottom
 Last Modified On: 7/25/2019 3:49:23 PM
 Normal: 0.150 - 5.000
 # of decimals: 3
 Kit Lot Number: Kit:P23L3054

ATX Control
 Standards:
 ATX Std 0, Concentration = 0.000, Minimum number to use: 2
 ATX Std 1, Concentration = 0.150, Minimum number to use: 2
 ATX Std 2, Concentration = 0.400, Minimum number to use: 2
 ATX Std 3, Concentration = 1.000, Minimum number to use: 2
 ATX Std 4, Concentration = 2.500, Minimum number to use: 2
 ATX Std 5, Concentration = 5.000, Minimum number to use: 2
 Curve valid interval: 1 days 0 hours
 Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position
6/19/2025 2:56:38 PM				
ATX Std 0	1.546 Abs	0.000 µg/L	R ² =0.99930, 101.444 %Abs	RK1:23->A01@2
ATX Std 0	1.501 Abs [1.5235] {2.1 CV}	0.011 µg/L [0.006] {141.4 CV}	R ² =0.99930, 98.491 %Abs	RK1:23->B01@2
ATX Std 1	1.305 Abs	0.121 µg/L	R ² =0.99930, 85.630 %Abs	RK1:24->C01@2
ATX Std 1	1.234 Abs [1.2695] {4.0 CV}	0.171 µg/L [0.146] {24.2 CV}	R ² =0.99930, 80.971 %Abs	RK1:24->D01@2
ATX Std 2	0.990 Abs	0.407 µg/L	R ² =0.99930, 64.961 %Abs	RK1:25->E01@2
ATX Std 2	0.995 Abs [0.9925] {0.4 CV}	0.401 µg/L [0.404] {1.1 CV}	R ² =0.99930, 65.289 %Abs	RK1:25->F01@3
ATX Std 3	0.669 Abs	1.006 µg/L	R ² =0.99930, 43.898 %Abs	RK1:26->G01@3
ATX Std 3	0.646 Abs [0.6575] {2.5 CV}	1.073 µg/L [1.040] {4.6 CV}	R ² =0.99930, 42.388 %Abs	RK1:26->H01@3
ATX Std 4	0.419 Abs	2.159 µg/L	R ² =0.99930, 27.493 %Abs	RK1:27->A02@2
ATX Std 4	0.383 Abs [0.4010] {6.3 CV}	2.456 µg/L [2.308] {9.1 CV}	R ² =0.99930, 25.131 %Abs	RK1:27->B02@2
ATX Std 5	0.217 Abs	> 5.000 µg/L	14.239 %Abs	RK1:28->C02@2
ATX Std 5	0.206 Abs [0.2115] {3.7 CV}	> 5.000 µg/L	13.517 %Abs	RK1:28->D02@2

6/19/2025 2:56:38 PM				
ATX Control	0.819 Abs	0.664 µg/L	53.740 %Abs	RK1:29->E02@2
ATX Control	0.801 Abs [0.8100] {1.6 CV}	0.698 µg/L [0.681] {3.5 CV}	52.559 %Abs [53.150 %Abs]	RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.5235	0.0055		
ATX Std 0 [SD]	0.0318	0.0078		
ATX Std 0 [%CV]	2.0886	141.4214		
ATX Std 1 [MEAN]	1.2695	0.1460		
ATX Std 1 [SD]	0.0502	0.0354		
ATX Std 1 [%CV]	3.9547	24.2160		
ATX Std 1 [%DIFF]		-2.6667		
ATX Std 2 [MEAN]	0.9925	0.4040		
ATX Std 2 [SD]	0.0035	0.0042		
ATX Std 2 [%CV]	0.3562	1.0502		
ATX Std 2 [%DIFF]		1.0000		
ATX Std 3 [MEAN]	0.6575	1.0395		
ATX Std 3 [SD]	0.0163	0.0474		
ATX Std 3 [%CV]	2.4735	4.5576		
ATX Std 3 [%DIFF]		3.9500		
ATX Std 4 [MEAN]	0.4010	2.3075		
ATX Std 4 [SD]	0.0255	0.2100		
ATX Std 4 [%CV]	6.3481	9.1012		
ATX Std 4 [%DIFF]		-7.7000		
ATX Std 5 [MEAN]	0.2115			
ATX Std 5 [SD]	0.0078			
ATX Std 5 [%CV]	3.6776			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.8100	0.6810			
ATX Control [SD]	0.0127	0.0240			
ATX Control [%CV]	1.5713	3.5303			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.5267
B = 0.95461
C = 0.76805
D = 0.0060211
R2 coef = 0.99930
50% = 0.777

