



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC46387	Chain O'Lakes SP - Sand Lake Beach	8/25/2025	8/27/2025	< 0.40
AC46388	Ouabache SP - Kunkel Lake Beach	8/25/2025	8/27/2025	< 0.40
AC46389	Summit Lake SP - Summit Lake Beach	8/25/2025	8/27/2025	< 0.40
AC46390	Potato Creek SP - Worster Lake Beach	8/26/2025	8/27/2025	< 0.40
AC46391	Mississinewa Lake - Miami SRA Beach	8/26/2025	8/27/2025	< 0.40
AC46392	Salamonie Lake - Lost Bridge West SRA Beach	8/26/2025	8/27/2025	< 0.40
AC46393	Potato Creek SP - Worster Lake Beach (Field Duplicate)	8/26/2025	8/27/2025	< 0.40
AC46394	Field Blank	8/26/2025	8/27/2025	< 0.40
AC46395	Ferdinand State Forest - Ferdinand Lake Beach	8/25/2025	8/27/2025	< 0.40
AC46396	Patoka Lake - Newton Stewart SRA	8/25/2025	8/27/2025	< 0.40
AC46418	Ft Ben Harrison SP - Dog Lake	8/25/2025	8/27/2025	< 0.40

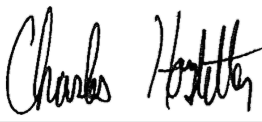
Test Report (by Request)

Test Information

Request: 8/27/2025 11:21:16 AM
Date: 8/27/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.738 Abs	0.000 µg/L	R^2=0.99958, 100.5		0.000	Kit:250700
ATX Std 0	ANATOXIN	1.719 Abs [1.7285] {0.8 C	0.003 µg/L [0.002]	R^2=0.99958, 99.42		0.000	Kit:250700
ATX Std 1	ANATOXIN	1.433 Abs	0.126 µg/L	R^2=0.99958, 82.88		0.150	Kit:250700
ATX Std 1	ANATOXIN	1.363 Abs [1.3980] {3.5 C	0.169 µg/L [0.148]	R^2=0.99958, 78.83		0.150	Kit:250700
ATX Std 2	ANATOXIN	1.086 Abs	0.409 µg/L	R^2=0.99958, 62.81		0.400	Kit:250700
ATX Std 2	ANATOXIN	1.099 Abs [1.0925] {0.8 C	0.394 µg/L [0.402]	R^2=0.99958, 63.56		0.400	Kit:250700
ATX Std 3	ANATOXIN	0.728 Abs	1.036 µg/L	R^2=0.99958, 42.10		1.000	Kit:250700
ATX Std 3	ANATOXIN	0.729 Abs [0.7285] {0.1 C	1.034 µg/L [1.035]	R^2=0.99958, 42.16		1.000	Kit:250700
ATX Std 4	ANATOXIN	0.443 Abs	2.312 µg/L	R^2=0.99958, 25.62		2.500	Kit:250700
ATX Std 4	ANATOXIN	0.435 Abs [0.4390] {1.3 C	2.372 µg/L [2.342]	R^2=0.99958, 25.15		2.500	Kit:250700
ATX Std 5	ANATOXIN	0.249 Abs	4.797 µg/L	R^2=0.99958, 14.40		5.000	Kit:250700
ATX Std 5	ANATOXIN	0.210 Abs [0.2295] {12.0	> 5.000 µg/L [4.79	12.146 %Abs		5.000	Kit:250700
ATX Control	ANATOXIN	0.889 Abs	0.686 µg/L	51.417 %Abs			Kit:250700
ATX Control	ANATOXIN	0.892 Abs [0.8905] {0.2 C	0.681 µg/L [0.684]	51.591 %Abs [51.5			Kit:250700

Note

Signature 

Charles Hostetter 8/27/2025

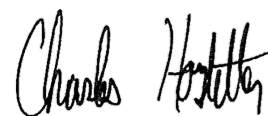
Test Information

Request: 8/27/2025 11:47:26 AM
Date: 8/27/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#	
LRB	ANATOXIN	1.507 Abs	0.086 µg/L	Low, 87.160 %Abs		0.150 - 5.000	Kit:250700	
LRB	ANATOXIN	1.481 Abs [1.4940] {1.2 C	0.100 µg/L [0.093]	Low, 85.656 %Abs		0.150 - 5.000	Kit:250700	
LFB (ANA)	ANATOXIN	0.908 Abs	0.654 µg/L	52.516 %Abs		0.150 - 5.000	Kit:250700	
LFB (ANA)	ANATOXIN	0.860 Abs [0.8840] {3.8 C	0.739 µg/L [0.697]	49.740 %Abs [51.1		0.150 - 5.000	Kit:250700	
AC46387	ANATOXIN	1.401 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46387	ANATOXIN	1.344 Abs [1.3725] {2.9 C	0.200 µg/L	77.733 %Abs	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46388	ANATOXIN	1.512 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46388	ANATOXIN	1.494 Abs [1.5030] {0.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46389	ANATOXIN	1.436 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46389	ANATOXIN	1.504 Abs [1.4700] {3.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46389MS	ANATOXIN	0.906 Abs	0.657 µg/L	52.400 %Abs		0.150 - 5.000	Kit:250700	
AC46389MS	ANATOXIN	0.887 Abs [0.8965] {1.5 C	0.690 µg/L [0.674]	51.301 %Abs [51.8		0.150 - 5.000	Kit:250700	
AC46389MSD	ANATOXIN	0.878 Abs	0.706 µg/L	50.781 %Abs		0.150 - 5.000	Kit:250700	
AC46389MSD	ANATOXIN	0.819 Abs [0.8485] {4.9 C	0.820 µg/L [0.763]	47.368 %Abs [49.0		0.150 - 5.000	Kit:250700	
AC46390	ANATOXIN	1.496 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46390	ANATOXIN	1.480 Abs [1.4880] {0.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46391	ANATOXIN	1.452 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46391	ANATOXIN	1.448 Abs [1.4500] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46392	ANATOXIN	1.637 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46392	ANATOXIN	1.602 Abs [1.6195] {1.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46393	ANATOXIN	1.542 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46393	ANATOXIN	1.481 Abs [1.5115] {2.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46394	ANATOXIN	1.543 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46394	ANATOXIN	1.547 Abs [1.5450] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46395	ANATOXIN	1.465 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46395	ANATOXIN	1.419 Abs [1.4420] {2.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46396	ANATOXIN	1.631 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46396	ANATOXIN	1.657 Abs [1.6440] {1.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46418	ANATOXIN	1.621 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	
AC46418	ANATOXIN	1.510 Abs [1.5655] {5.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700	

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:2507006152

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
8/27/2025 11:21:16 AM				
ATX Std 0	1.738 Abs	0.000 µg/L	R ² =0.99958, 100.521 %Abs	RK1:23->A01@2
ATX Std 0	1.719 Abs [1.7285] {0.8 CV}	0.003 µg/L [0.002] {141.4 CV}	R ² =0.99958, 99.422 %Abs	RK1:23->B01@2
ATX Std 1	1.433 Abs	0.126 µg/L	R ² =0.99958, 82.880 %Abs	RK1:24->C01@2
ATX Std 1	1.363 Abs [1.3980] {3.5 CV}	0.169 µg/L [0.148] {20.6 CV}	R ² =0.99958, 78.832 %Abs	RK1:24->D01@2
ATX Std 2	1.086 Abs	0.409 µg/L	R ² =0.99958, 62.811 %Abs	RK1:25->E01@2
ATX Std 2	1.099 Abs [1.0925] {0.8 CV}	0.394 µg/L [0.402] {2.6 CV}	R ² =0.99958, 63.563 %Abs	RK1:25->F01@3
ATX Std 3	0.728 Abs	1.036 µg/L	R ² =0.99958, 42.105 %Abs	RK1:26->G01@3
ATX Std 3	0.729 Abs [0.7285] {0.1 CV}	1.034 µg/L [1.035] {0.1 CV}	R ² =0.99958, 42.163 %Abs	RK1:26->H01@3
ATX Std 4	0.443 Abs	2.312 µg/L	R ² =0.99958, 25.622 %Abs	RK1:27->A02@2
ATX Std 4	0.435 Abs [0.4390] {1.3 CV}	2.372 µg/L [2.342] {1.8 CV}	R ² =0.99958, 25.159 %Abs	RK1:27->B02@2
ATX Std 5	0.249 Abs	4.797 µg/L	R ² =0.99958, 14.401 %Abs	RK1:28->C02@2
ATX Std 5	0.210 Abs [0.2295] {12.0 CV}	> 5.000 µg/L [4.797]	12.146 %Abs	RK1:28->D02@2

8/27/2025 11:21:16 AM				
ATX Control	0.889 Abs	0.686 µg/L	51.417 %Abs	RK1:29->E02@2
ATX Control	0.892 Abs [0.8905] {0.2 CV}	0.681 µg/L [0.684] {0.5 CV}	51.591 %Abs [51.504 %Abs]	RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.7285	0.0015		
ATX Std 0 [SD]	0.0134	0.0021		
ATX Std 0 [%CV]	0.7773	141.4214		
ATX Std 1 [MEAN]	1.3980	0.1475		
ATX Std 1 [SD]	0.0495	0.0304		
ATX Std 1 [%CV]	3.5406	20.6140		
ATX Std 1 [%DIFF]		-1.6667		
ATX Std 2 [MEAN]	1.0925	0.4015		
ATX Std 2 [SD]	0.0092	0.0106		
ATX Std 2 [%CV]	0.8414	2.6417		
ATX Std 2 [%DIFF]		0.3750		
ATX Std 3 [MEAN]	0.7285	1.0350		
ATX Std 3 [SD]	0.0007	0.0014		
ATX Std 3 [%CV]	0.0971	0.1366		
ATX Std 3 [%DIFF]		3.5000		
ATX Std 4 [MEAN]	0.4390	2.3420		
ATX Std 4 [SD]	0.0057	0.0424		
ATX Std 4 [%CV]	1.2886	1.8115		
ATX Std 4 [%DIFF]		-6.3200		
ATX Std 5 [MEAN]	0.2295			
ATX Std 5 [SD]	0.0276			
ATX Std 5 [%CV]	12.0162			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.8905	0.6835			
ATX Control [SD]	0.0021	0.0035			
ATX Control [%CV]	0.2382	0.5173			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.7307
B = 0.88319
C = 0.77374
D = -0.046752
R2 coef = 0.99958
50% = 0.731

