

# King County Environmental Lab Analytical Report

Project: 421874-915  
Locator: WHITE LAKE DOCK 2A  
Descrip: White Lake Dock 2A  
Sample: L83834-1  
Matrix: LK FRESH WTR  
ColDate: 7/8/24 11:10

## WET Weight Basis

Project: 421874-915  
Locator: WHITE LAKE SCUM  
Descrip: White Lake  
Sample: L83834-2  
Matrix: LK FRESH WTR  
ColDate: 7/8/24 11:15

## WET Weight Basis

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
AQ ABRAXIS ADDA										
Microcystin	2.73		0.3	0.6	ug/L	8.82		0.3	0.6	ug/L
AQ modified KCEL SOP4070										
Anatoxin-a		<MDL	0.01	0.05	ug/L		<MDL	0.01	0.05	ug/L

King County Environmental Laboratory Batch Report

White Lake FWSB, L83834, July 8, 2024

WG195064 Anatoxin-a by LCMS

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	QC Association	Comments
L83834-1	421874-915	Muckleshoot Tribe Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:10	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L83834-2	421874-915	Muckleshoot Tribe Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:15	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-2	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 8:37	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-4	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 8:44	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-6	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 9:02	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-9	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 9:38	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-11	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 9:55	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-14	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 10:28	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-17	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:26	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-21	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:50	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-24	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 12:07	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-27	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 12:31	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84229-30	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 12:56	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-2	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:50	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-5	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:20	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-8	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 11:05	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-11	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 10:50	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-14	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 10:36	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-17	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 10:03	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84230-21	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/8/2024 8:36	7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84232-2	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/9/2024 8:06	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	

King County Environmental Laboratory Batch Report

White Lake FWSB, L83834, July 8, 2024

L84232-5	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/9/2024 9:45	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84232-8	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/9/2024 12:13	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84232-12	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/9/2024 9:02	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84232-15	421395	Swimming Beaches	AQATX-DIRECT	FRESH WTR	7/9/2024 8:26	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
L84234-2	421874-940	Mercer Island Swim Beach	AQATX-DIRECT	FRESH WTR	7/9/2024 7:39	7/9/2024 14:25	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
WG195064-1	MB		AQATX-DIRECT	OTHR WTR		7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	
WG195064-2	SB		AQATX-DIRECT	OTHR WTR		7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	WG195064-1
WG195064-3	MS		AQATX-DIRECT	FRESH WTR		7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	L84229-17
WG195064-4	MSD		AQATX-DIRECT	FRESH WTR		7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	WG195064-3 L84229-17
WG195064-5	MDLCK		AQATX-DIRECT	OTHR WTR		7/8/2024 14:40	7/10/2024 10:30	WG195064-1,-2,-3,-4,-5	

WG195066 Microcystin by ELISA

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	QC Association	Comments
L83834-1	421874-915	Muckleshoot Tribe Swimming Beaches	AQADDA-ELISA	FRESH WTR	7/8/2024 11:10	7/8/2024 14:40	7/9/2024 13:37	WG195066-1,-2,-3	
L83834-2	421874-915		AQADDA-ELISA	FRESH WTR	7/8/2024 11:15	7/8/2024 14:40	7/9/2024 13:37	WG195066-1,-2,-3	
WG195066-1	PCE		AQADDA-ELISA	OTHR WTR		7/9/2024 10:35	7/9/2024 13:37	WG195066-1,-2,-3	
WG195066-2	MB		AQADDA-ELISA	OTHR WTR		7/9/2024 10:25	7/9/2024 13:37	WG195066-1,-2,-3	
WG195066-3	SB		AQADDA-ELISA	OTHR WTR		7/9/2024 10:25	7/9/2024 13:37	WG195066-1,-2,-3	WG195066-2

Workgroup: WG195064 Anatoxin-a by LCMS

MB:WG195064-1 Matrix: OTHR WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project: Pkey:STD  
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Anatoxin-a	0.01	0.05	ug/L	<MDL	

SB:WG195064-2 MB:WG195064-1 Matrix: OTHR WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project: Pkey:STD  
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec. Qual	Lab Limit
Anatoxin-a	0.01	0.05	ug/L	<MDL	0.5	0.564	113	50--150

MSD:WG195064-4 MS:WG195064-3 L84229-17 Matrix: FRESH WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project:421395 Pkey:STD  
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec. Qual	Lab Limit	True Value	MSD Value	% Rec. Qual	RPD	Qual	Lab Limit
Anatoxin-a	0.01	0.05	ug/L	<MDL	0.5	0.595	119	50--150	0.5	0.585	117	2		0--45

Workgroup: WG195066 Microcystin by ELISA

PCE:WG195066-1 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD  
(Positive Control Elisa)

Parameter	MDL	RDL	Units	True Value	PCE Value	% Rec.	Qual	Lab Limit
Microcystin	0.3	0.6	ug/L	0.75	0.668	89		70--130

MB:WG195066-2 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD  
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Microcystin	0.3	0.6	ug/L		<MDL

SB:WG195066-3 MB:WG195066-2 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD  
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Microcystin	0.3	0.6	ug/L	<MDL	0.9	0.714	79		60--140

login: P83834  
Project: 421874-915

White Lake Swim Beach 7/8

FSU TC: \_\_\_\_\_  
LPM: Meghan Elkey

CHAIN OF CUSTODY

Relinquished by <i>David Garcia</i>	Date <i>7/8/24</i>	Time <i>12:45</i>
Received by <i>[Signature]</i>	Date <i>7-8-24</i>	Time <i>1245</i>
Sample Numbers <i>P83834-1, P83834-2</i>		

Sample Number	P83834-1	P83834-2
QC Link		
Locator	WHITE LAKE DOCK 2A	WHITE LAKE SCUM
Short Loc Desc		
Locator Desc	White Lake Dock 2A	White Lake
Site	KING COUNTY	KING COUNTY
Comments	White Lake	White Lake
Start Date/Time	<i>7/8/24 11:10</i>	<i>7/8/24 11:15</i>
End Date/Time	<i>—</i>	<i>—</i>
Time Span	<i>—</i>	<i>—</i>
Sample Depth	<i>6in</i>	<i>Surface grab</i>
Dept, Matrix, Prod (Cont ID)	4 LK ADDA-ELISA; ATXA-ELISA (43)	4 LK ADDA-ELISA; ATXA-ELISA (43)

## LIQUID SAMPLE RECEIPT RECORD

Login Number(s): 83834-1,2		Project No.: 421874-915		Sub-Contracting: Y / N		List Product(s):				
Collect Date(s): 7-8-24		Receive Date: 7-8-24		Changes: Y / N		List Parameter(s):				
SAMPLE RECEIPT CONDITIONS				FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)						
CONDITION		Acceptable?	Comment ID	PRODUCT / Preservation		SM Action	Acceptable?	Corrective Action		
Labels / Fieldsheets		Y / N		BNA / pH 6 - 9 w/ H <sub>2</sub> SO <sub>4</sub> or NaOH		✓ field sheet for F. pH	Y / N	<input type="checkbox"/> Notify ORG		
Container		Y / N		CN / pH > 12 w/ NaOH within 15 min		<input type="checkbox"/> Check pH	Y / N	<input type="checkbox"/> Deliver to CONV		
Temperature (w/ ice)		Y / N / NA		NO <sub>2</sub> 3 pH < 2 w/ H <sub>2</sub> SO <sub>4</sub>		<input type="checkbox"/> Check pH	Y / N / NA	<input type="checkbox"/> Preserve by SM		
BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS				CR(VI) / TOTCR(VI) / pH 9.3 - 9.7 w/ NaOH w/in 15 min				✓ field sheet for pH	Y / N	<input type="checkbox"/> Deliver to CONV
#	Bottle Description: Sample Numbers			ICP / HG-CVAA-M / pH < 2 w/ HNO <sub>3</sub>		<input type="checkbox"/> Check pH	Y / N	<input type="checkbox"/> Preserve By SM		
	40 mL clear vial (VOA):			O&G / HEM / PHENOL / pH < 2 w/ H <sub>2</sub> SO <sub>4</sub>		Check documentation	Y / N	<input type="checkbox"/> Preserve by SM		
	60 mL clear glass (PHYTO):			PHYTOPLANKTON / Lugols		Visually inspect	Y / N	<input type="checkbox"/> Deliver to MICRO		
	60 mL CWM HDPE:			TKN / COD pH < 2 w/ H <sub>2</sub> SO <sub>4</sub> within 15 min		<input type="checkbox"/> Check pH	Y / N	<input type="checkbox"/> Preserve By SM		
	125 mL AWM HDPE:			TOC / pH < 2 w/ HCl (NPDES only)		<input type="checkbox"/> Check pH	Y / N	<input type="checkbox"/> Preserve By SM		
	125 mL CNM HDPE:			TOTSULFIDE / pH > 9 w/ NaOH, ZnAc		Check documentation	Y / N	<input type="checkbox"/> Deliver to CONV		
	125 mL CWM HDPE:			WDO / FIXED		Visually inspect	Y / N	<input type="checkbox"/> Deliver to CONV		
	125 mL GANM:			Other:						
	125 mL GANM w/HCl			ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)						
	250 mL AWM HDPE:			PRODUCT / Preservation		SM Action	Acceptable?	Corrective Action		
	250 mL CWM HDPE:			Chlorinated Pesticides / pH 5 - 9 w/ H <sub>2</sub> SO <sub>4</sub> or NaOH		✓ field sheet for F. pH	Y / N	<input type="checkbox"/> Adjust pH		
	250 mL CWM HDPE (MICRO):			HG-CVAA-L-Teflon (T / D) / pH < 2 w/ ULTRA HCl		<input type="checkbox"/> Preserve & deliver	NA	NA		
2	250 mL GAWM: 1, 2			ICPMS / HG-CVAA-M (T / D) / pH < 2 w/ ULTRA HNO <sub>3</sub>		<input type="checkbox"/> Preserve & deliver	NA	NA		
	250 mL GAWM w/ H <sub>2</sub> SO <sub>4</sub> :			TOC / pH < 2 w/ HCl		<input type="checkbox"/> Preserve & deliver	NA	NA		
	300 mL WDO (8 hour HT):			Other:						
	500 mL AWM HDPE:			Other:						
	500 mL CWM HDPE:			INTERFERENCE TEST (Circle and/or check applicable selections)						
	500 mL CWM PP (MICRO):			Product / Interference (SM Action)		Positive Test?	Treated	Corrective Action		
	500 mL HDPE (METALS):			BNA / Chlorine (Check documentation)		Y / N / not tested	Y / N	<input type="checkbox"/> Deliver to ORG		
	500 mL HDPE, double-bagged (METALS):			CN / Chlorine (Check documentation)		Y / N / not tested	Y / N	<input type="checkbox"/> Deliver to CONV		
	500 mL Teflon (Hg):			CN / Sulfide (Check field sheet for DF)		Y / N / not tested	Y / N	<input type="checkbox"/> Deliver to CONV		
	500 mL Teflon, double-bagged (METALS):			VOA / Chlorine (Check documentation)		Y / N / not tested	Y / N	<input type="checkbox"/> Deliver to ORG		
	500 mL GANM / GAWM:			Other:						
	500 mL Polystyrene Filtration Units (METALS):			HEADSPACE CHECK						
	1L AWM HDPE:			PRODUCT (SM Action)		Check For	Acceptable?	Corrective Action		
	1L CWM HDPE:			MICRO (Visually inspect)		Headspace (@ 1")	Y / N	<input type="checkbox"/> Notify MICRO		
	1L CWM PP (MICRO):			TOTSULFIDE (Visually inspect)		Headspace (< 1")	Y / N	<input type="checkbox"/> Notify CONV		
	1L GANM:			VOA (Visually inspect)		Zero headspace	Y / N	<input type="checkbox"/> Notify ORG		
	1L GCWM:			WDO (Visually inspect)		Zero headspace	Y / N	<input type="checkbox"/> Notify CONV		
	1L GAWM w/ H <sub>2</sub> SO <sub>4</sub> :			Other:						
	2L CWM HDPE:			FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)						
	Other:			Product (SM Action)		Field Filtered	Field Blank	Corrective Action		
COMMENTS / NOTIFICATIONS				ORTHOP (Check Field Sheet)		Y (within 15 min y / n) / N	Y / N	<input type="checkbox"/> Deliver to CONV		
				NO <sub>2</sub> / NO <sub>3</sub> / NO <sub>2</sub> 3 / NH <sub>3</sub> / SI (Documentation)		Y (within 1 day y / n) / N	Y / N / NA	<input type="checkbox"/> Deliver to CONV		
				Dissolved Metals (Check Field Sheet)		Y (within 15 min y / n) / N	Y / N / NA	<input type="checkbox"/> Deliver to METALS		
				DOC (Deliver / Notify Unit)		Y (within 15 min or 1 day) / N	Y / N / NA	<input type="checkbox"/> Deliver to CONV		
				DCOD / CR(VI) (Deliver / Notify Unit)		Y (within 15 min y / n) / N	Y / N / NA	<input type="checkbox"/> Deliver to CONV		
				Other:						
				Other:						

CC: ☐ AQUATOX, ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐

## NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.

4. Deliver pH, WDO, and all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter "Time Span" for composite samples during sample login.
6. Split algae sample into 60 mL clear glass if PHYTOQUAL is requested.

**SM Signature:**

Date / Time Completed:

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