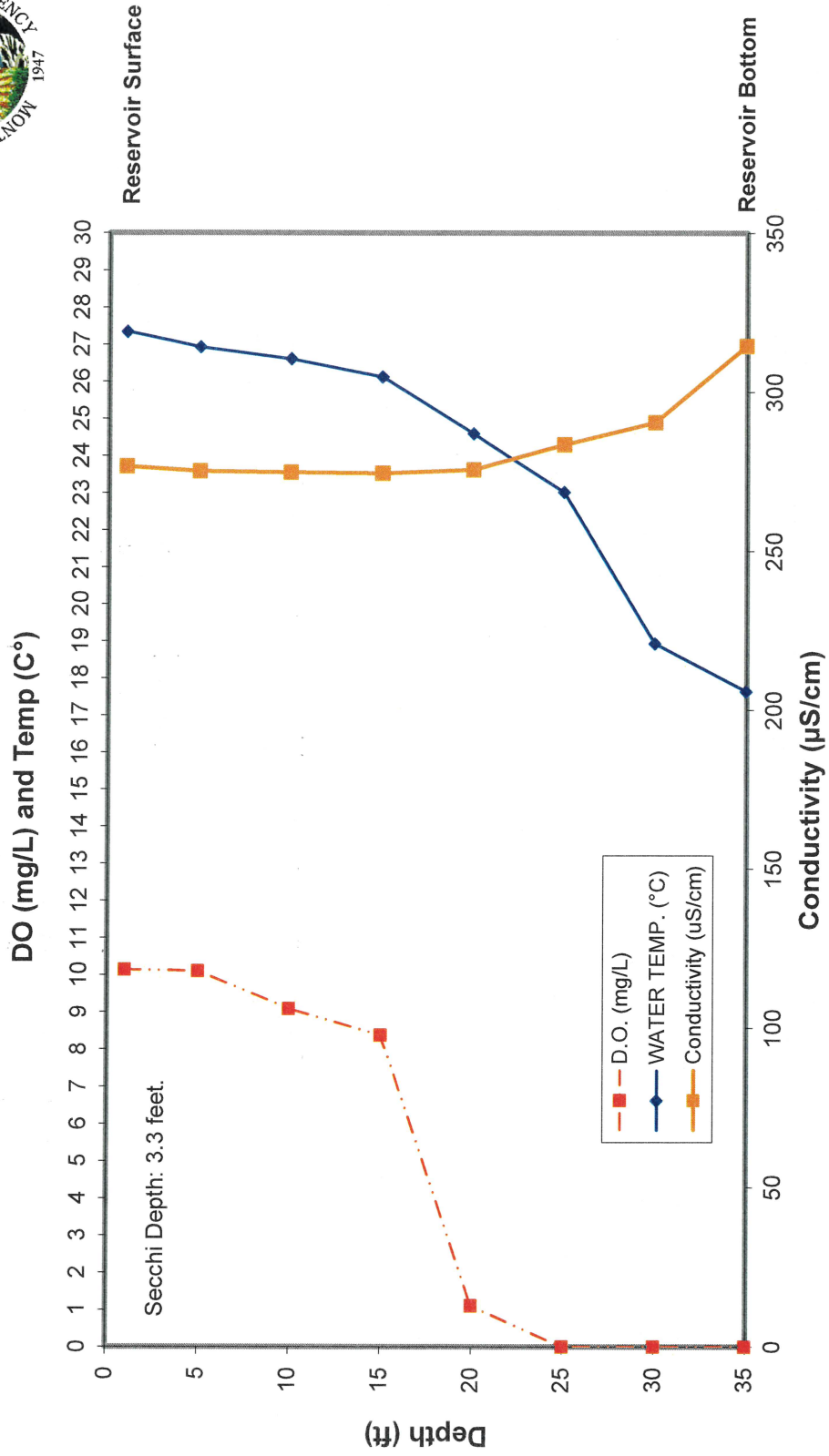




# San Antonio Lynch Ramp Profile

07/16/24 11:20

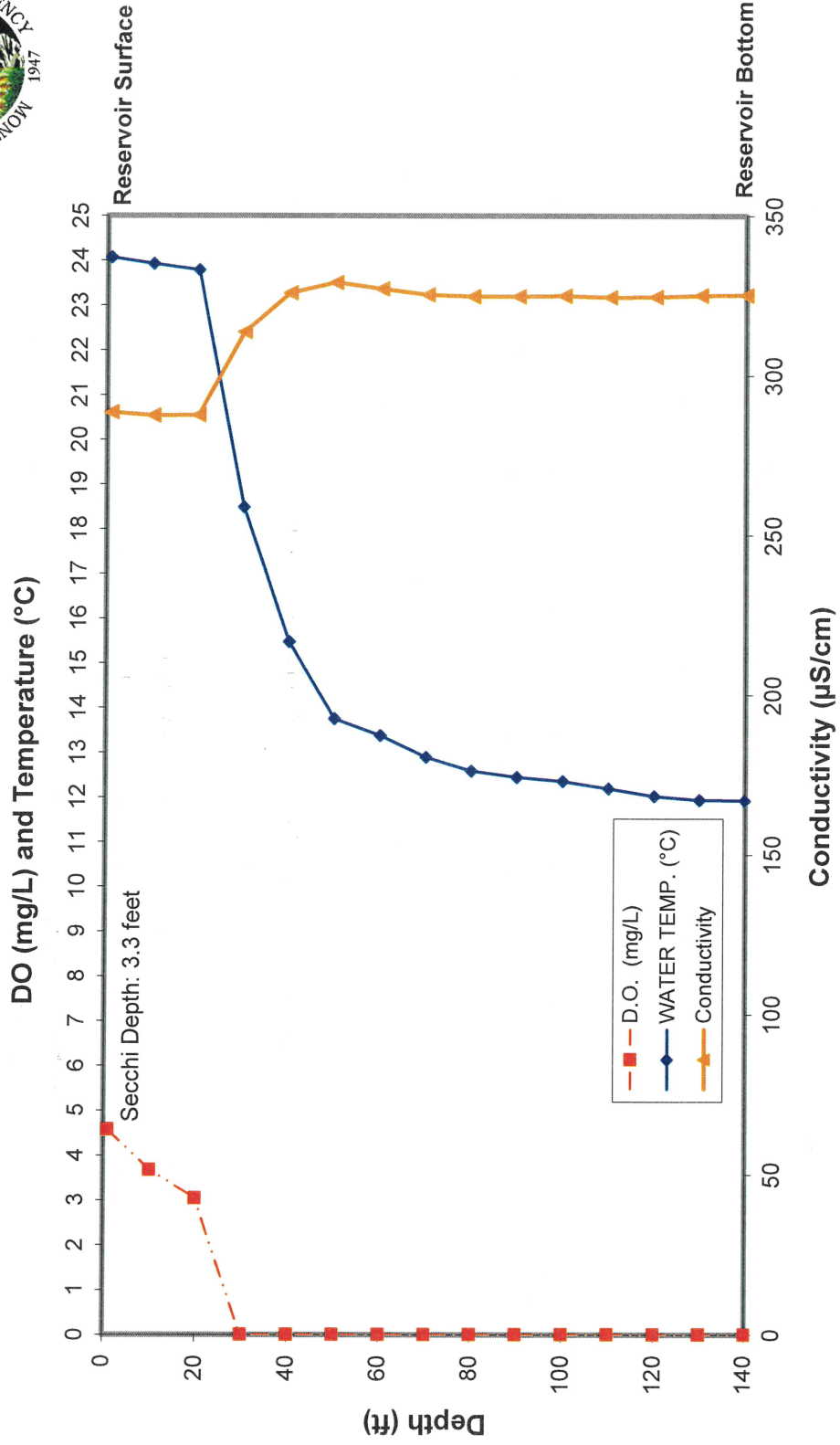
Water Surface Elevation: 754.7 ft.



# San Antonio Profile

07/16/24, 10:25

Water Surface Elevation: 754.7 ft.



Date source: Monterey County Water Resources Agency



## MONTEREY COUNTY HEALTH DEPARTMENT

### Consolidated Chemistry Laboratory

1270 Natividad Road Salinas, CA 93906  
Phone (831)755-4516 Fax (831) 755-4652

ELAP Certification Number: 1395

### Certificate of Analysis

Monterey County  
Environmental Health-Resource  
1270 Natividad Rd.  
Salinas, Ca. 93906

Page 1 of 3

Monday, July 15, 2024

**Lab Number: AC82997**

Sample Site: LAKE SAN ANTONIO - SITE 1 SWIM BEACH  
Source Code:  
Sample ID:

**Client Code: EH-SAL-R**

Collection Date/Time: 7/13/2024 10:01  
Submittal Date/Time: 7/13/2024 12:32  
Sample Collector: TUAZON I

Sample Comments: Special Water. Receiving temperature 21.6 °C.

Analyte	Method	Unit	Result	PQL	Analysis Start Date/Time
Antimony (Sb)	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Arsenic (As)	EPA200.7	ug/L	4	5	7/15/2024 13:30
Cadmium (Cd)	EPA200.5	ug/L	<1	1	7/15/2024 13:30
Chromium (Cr)	EPA200.5	ug/L	<2	2	7/15/2024 13:30
Copper (Cu)	EPA200.5	ug/L	<5	5	7/15/2024 13:30
E. coli-Q	SM9223 B Colilert	MPN/100 mL	<10	10	7/12/2024 13:00
Enterococcus	Enterolert	#/100 mL	<10	10	7/12/2024 13:00
Lead (Pb)	EPA200.5	ug/L	<1	1	7/15/2024 13:30
Manganese (Mn)	EPA200.5	ug/L	6	1	7/15/2024 13:30
Nickel	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.1	0.1	7/13/2024 14:10
NO3 (Nitrate)	EPA300.0 REV 2.1	mg/L	<0.5	0.5	7/13/2024 14:10
Selenium	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Total coliform-Q	SM9223 B Colilert	MPN/100 mL	520	10	7/12/2024 13:00
Zinc (Zn)	EPA200.5	ug/L	<5	5	7/15/2024 13:30

**Lab Number: AC82998**

Sample Site: LAKE SAN ANTONIO - SITE 2 HARRIS CREEK LAUNCH RAMP  
Source Code:  
Sample ID:

**Client Code: EH-SAL-R**

Collection Date/Time: 7/13/2024 10:17  
Submittal Date/Time: 7/13/2024 12:32  
Sample Collector: TUAZON I

Sample Comments: Special Water. Receiving temperature 12.4 °C.

Analyte	Method	Unit	Result	PQL	Analysis Start Date/Time
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AC82999 7/15/2024 5:20 PM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

Antimony (Sb)	EPA200.5	ug/L	<5	5	7/15/2024	13:30
Arsenic (As)	EPA200.7	ug/L	3	5	7/15/2024	13:30
Cadmium (Cd)	EPA200.5	ug/L	<1	1	7/15/2024	13:30
Chromium (Cr)	EPA200.5	ug/L	<2	2	7/15/2024	13:30
Copper (Cu)	EPA200.5	ug/L	<5	5	7/15/2024	13:30
E. coli-Q	SM9223 B Colilert	MPN/100 mL	<10	10	7/12/2024	13:00
Enterococcus	Enterolert	#/100 mL	<10	10	7/12/2024	13:00
Lead (Pb)	EPA200.5	ug/L	<1	1	7/15/2024	13:30
Manganese (Mn)	EPA200.5	ug/L	7	1	7/15/2024	13:30
Nickel	EPA200.5	ug/L	<5	5	7/15/2024	13:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.1	0.1	7/13/2024	14:23
NO3 (Nitrate)	EPA300.0 REV 2.1	mg/L	<0.5	0.5	7/13/2024	14:23
Selenium	EPA200.5	ug/L	<5	5	7/15/2024	13:30
Total coliform-Q	SM9223 B Colilert	MPN/100 mL	355	10	7/12/2024	13:00
Zinc (Zn)	EPA200.5	ug/L	<5	5	7/15/2024	13:30

**Lab Number:** AC82999

Sample Site: LAKE SAN ANTONIO - SITE 3 DAM

Source Code:

Sample ID:

**Client Code:** EH-SAL-R

Collection Date/Time: 7/13/2024 10:30

Submittal Date/Time: 7/13/2024 12:32

Sample Collector: TUAZON I

Sample Comments: Special Water. Receiving temperature 17.3 °C.

Analyte	Method	Unit	Result	PQL	Analysis Start Date/Time
Antimony (Sb)	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Arsenic (As)	EPA200.7	ug/L	4	5	7/15/2024 13:30
Cadmium (Cd)	EPA200.5	ug/L	<1	1	7/15/2024 13:30
Chromium (Cr)	EPA200.5	ug/L	<2	2	7/15/2024 13:30
Copper (Cu)	EPA200.5	ug/L	<5	5	7/15/2024 13:30
E. coli-Q	SM9223 B Colilert	MPN/100 mL	<10	10	7/12/2024 13:00
Enterococcus	Enterolert	#/100 mL	<10	10	7/12/2024 13:00
Lead (Pb)	EPA200.5	ug/L	<1	1	7/15/2024 13:30
Manganese (Mn)	EPA200.5	ug/L	7	1	7/15/2024 13:30
Nickel	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.1	0.1	7/13/2024 14:36
NO3 (Nitrate)	EPA300.0 REV 2.1	mg/L	<0.5	0.5	7/13/2024 14:36
Selenium	EPA200.5	ug/L	<5	5	7/15/2024 13:30
Total coliform-Q	SM9223 B Colilert	MPN/100 mL	1080	10	7/12/2024 13:00
Zinc (Zn)	EPA200.5	ug/L	<5	5	7/15/2024 13:30

AC82999 7/15/2024 5:20 PM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

Report approved by: 

Donna Ferguson, Ph.D, P.H.M  
Laboratory Director



**Date:** 7/16/2024

**Subject:** Cyanobacterial testing results – Agreement # D2283003

**From:** Tim Otten, Laboratory Director

**To:** Karen Odkins, Senior Environmental Scientist  
CDFW – Freshwater & Estuarine Harmful Algal Bloom Program

Testing results are enclosed for microscopy and ELISA analyses conducted on three samples collected from Lake San Antonio (c/o Zach Crum) on 7/12/2024. All data have been reviewed and are considered final.

**Analyses included in this report:**

- Quantification of total cyanobacterial toxins (anatoxin-a, cylindrospermopsin, microcystin/nodularin and saxitoxin) by enzyme linked immunosorbent assay (ELISA) methods.
- Microscope photos and identification of potentially toxigenic (PTOX) cyanobacteria.

Submitted by: \_\_\_\_\_

Timothy G. Otten, MPH, PhD



# Bend Genetics

Received: 7/12/2024  
Time: 3:33 PM  
Matrix: Water Integrated Bank  
BG ID: CF09  
Reported: 7/16/2024 16:54

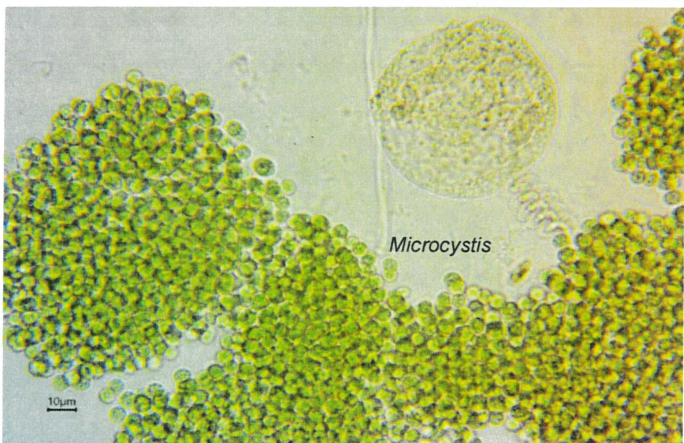
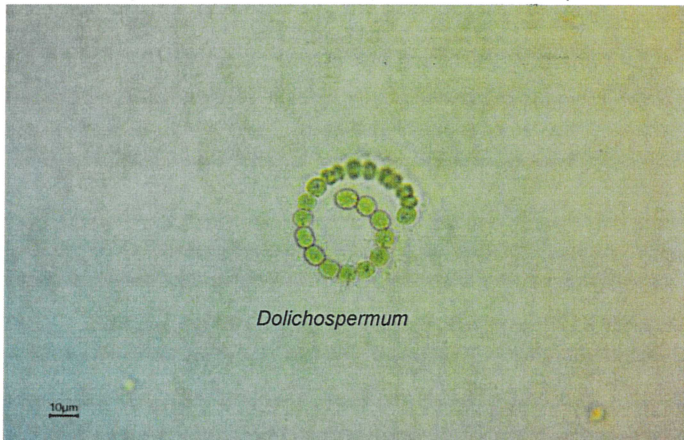
Customer: CDFW  
Project: CDFW\_PartMoni\_2024  
Location: Lake San Antonio Marina Launch  
Collected: 7/12/2024 9:46  
Sample ID: 309SANTMA

## SAMPLE RESULTS

Method	Analyte	Result	Reporting Limit	Units	Qualifiers	Batch
ELISA	Anatoxin-a	ND	0.15	µg/L	U	
ELISA	Cylindrospermopsin	ND	0.05	µg/L	U	
ELISA	Microcystin/Nod.	0.17	0.15	µg/L		
ELISA	Saxitoxin	ND	0.02	µg/L	U	

## MICROSCOPY RESULTS - Identification of CyanoHABs

Dominant	Sub-dominant	Also present	Notes
<i>Microcystis</i>	<i>Dolichospermum</i>	<i>Anabaenopsis</i>	This sample contained a moderately low amount of <i>Microcystis</i> sp., a low amount of <i>Dolichospermum</i> sp., and a very low amount of <i>Anabaenopsis</i> sp.; the photomicrographs were taken at 400X magnification. No <i>Prymnesium parvum</i> were present in this sample.





# Bend Genetics

Received: 7/12/2024  
Time: 3:33 PM  
Matrix: Water Integrated Bank  
BG ID: CF10  
Reported: 7/16/2024 16:54

Customer: CDFW  
Project: CDFW\_PartMoni\_2024  
Location: Lake San Antonio S. Shore Beach  
Collected: 7/12/2024 10:06  
Sample ID: 309SANTBE

## SAMPLE RESULTS

Method	Analyte	Result	Reporting Limit	Units	Qualifiers	Batch
ELISA	Anatoxin-a	ND	0.15	µg/L	U	
ELISA	Cylindrospermopsin	ND	0.05	µg/L	U	
ELISA	Microcystin/Nod.	0.17	0.15	µg/L		
ELISA	Saxitoxin	ND	0.02	µg/L	U	

## MICROSCOPY RESULTS - Identification of CyanoHABs

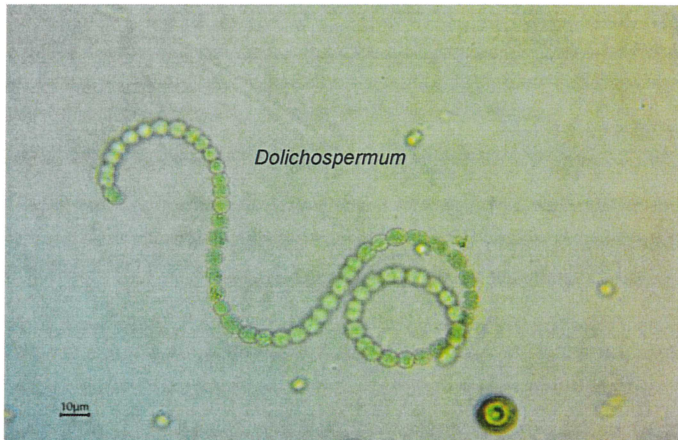
Dominant	Sub-dominant	Also present	Notes
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*Dolichospermum*

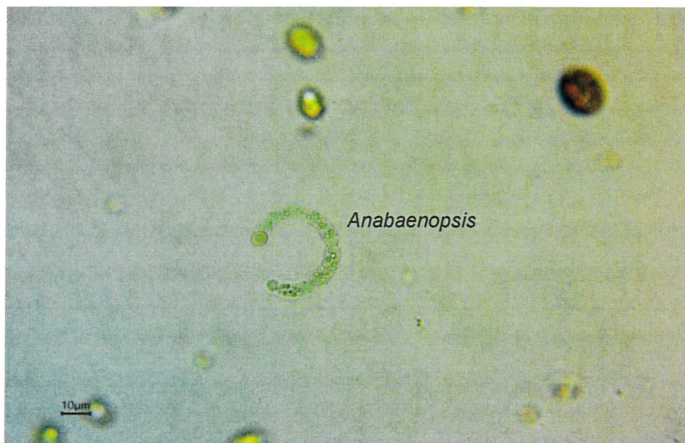
*Microcystis*

*Anabaenopsis*

This sample contained a low amount of *Dolichospermum* sp. and *Microcystis* sp., and a very low amount of *Anabaenopsis* sp., *Geitlerinema* sp., and *Aphanizomenon* sp.; the photomicrographs were taken at 400X magnification. No *Prymnesium parvum* were present in this sample.



*Dolichospermum*



*Anabaenopsis*



# Bend Genetics

Received: 7/12/2024  
Time: 3:33 PM  
Matrix: Water Integrated Bank  
BG ID: CF11  
Reported: 7/16/2024 16:54

Customer: CDFW  
Project: CDFW\_PartMoni\_2024  
Location: Lake San Antonio Harris Creek  
Collected: 7/12/2024 10:00

Sample ID: 309SANTHD

## SAMPLE RESULTS

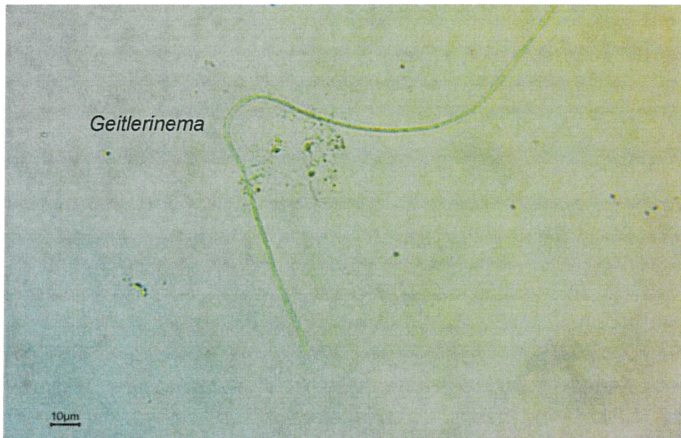
Method	Analyte	Result	Reporting Limit	Units	Qualifiers	Batch
ELISA	Anatoxin-a	ND	0.15	µg/L	U	
ELISA	Cylindrospermopsin	ND	0.05	µg/L	U	
ELISA	Microcystin/Nod.	0.16	0.15	µg/L		
ELISA	Saxitoxin	ND	0.02	µg/L	U	

## MICROSCOPY RESULTS - Identification of CyanoHABs

Dominant	Sub-dominant	Also present	Notes
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*Geitlerinema*

This sample contained a very low amount of *Geitlerinema* sp.; the photomicrograph was taken at 400X magnification. No *Prymnesium parvum* were present in this sample.





Customer: CDFW

Reported: 7/16/2024 16:54

Project: CDFW\_PartMoni\_2024

**QUALITY CONTROL**

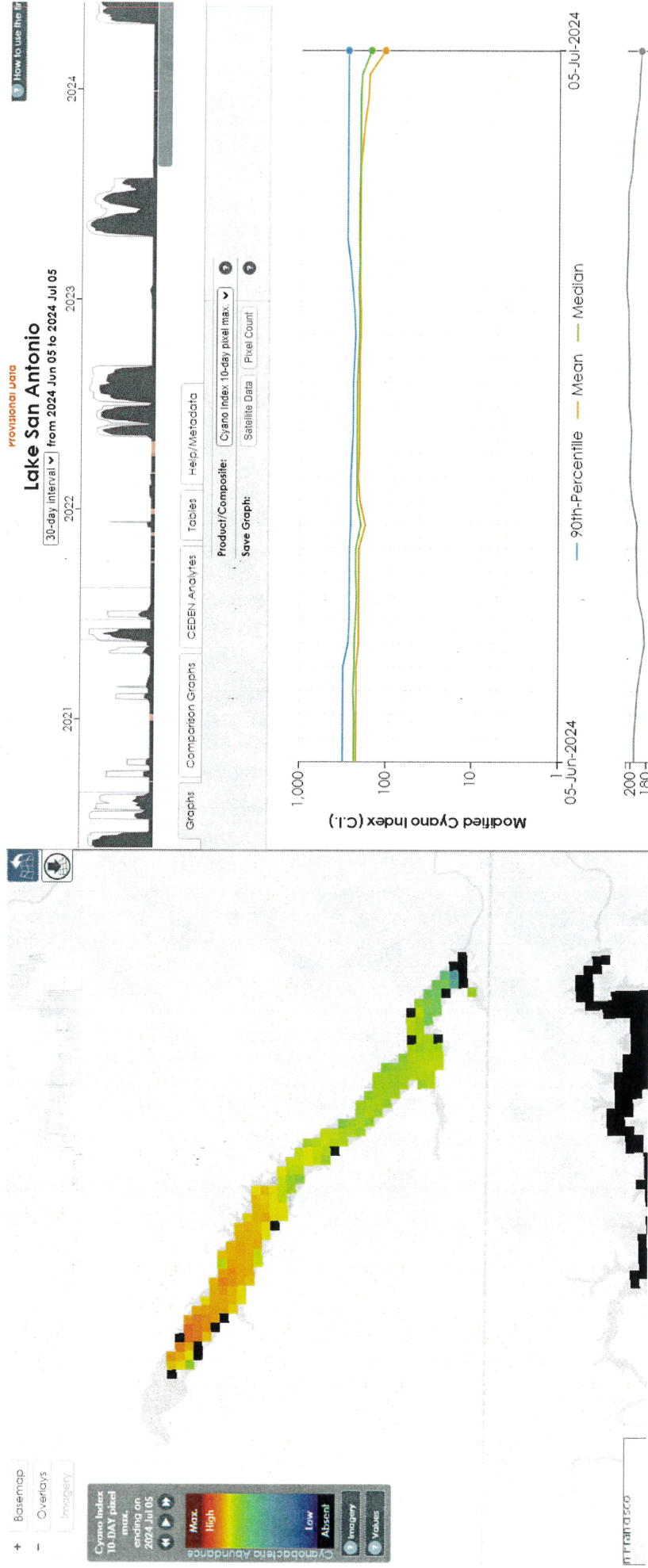
Method	Analyte	Result	Units	Qualifiers	Spike	%Rec	%Rec Limit	Batch
ELISA	ATX - Blank	ND	µg/L	U	0			
ELISA	ATX - Positive	0.70	µg/L		0.75	93.8	70-130	
ELISA	ATX - Spike	1.31	µg/L		1.25	104.5	70-130	
ELISA	CYN - Blank	ND	µg/L	U	0			
ELISA	CYN - Positive	0.72	µg/L		0.75	96.5	70-130	
ELISA	CYN - Spike	1.01	µg/L		1.00	101.1	70-130	
ELISA	MC - Blank	ND	µg/L	U	0			
ELISA	MC - Positive	0.70	µg/L		0.75	93.3	70-130	
ELISA	MC - Spike	0.98	µg/L		1.00	97.9	70-130	
ELISA	STX - Blank	ND	µg/L	U	0			
ELISA	STX - Positive	0.072	µg/L		0.075	95.3	70-130	
ELISA	STX - Spike	0.175	µg/L		0.200	87.5	70-130	

**QUALIFIERS:**

- C1 The reported result for this analyte is below the quantification limit.
- C2 The reported result for this analyte is above the calibration range of the assay.
- D Sample diluted - reported result accounts for dilution factor.
- J The reported result for this analyte should be considered as an estimated value.
- U Undetected

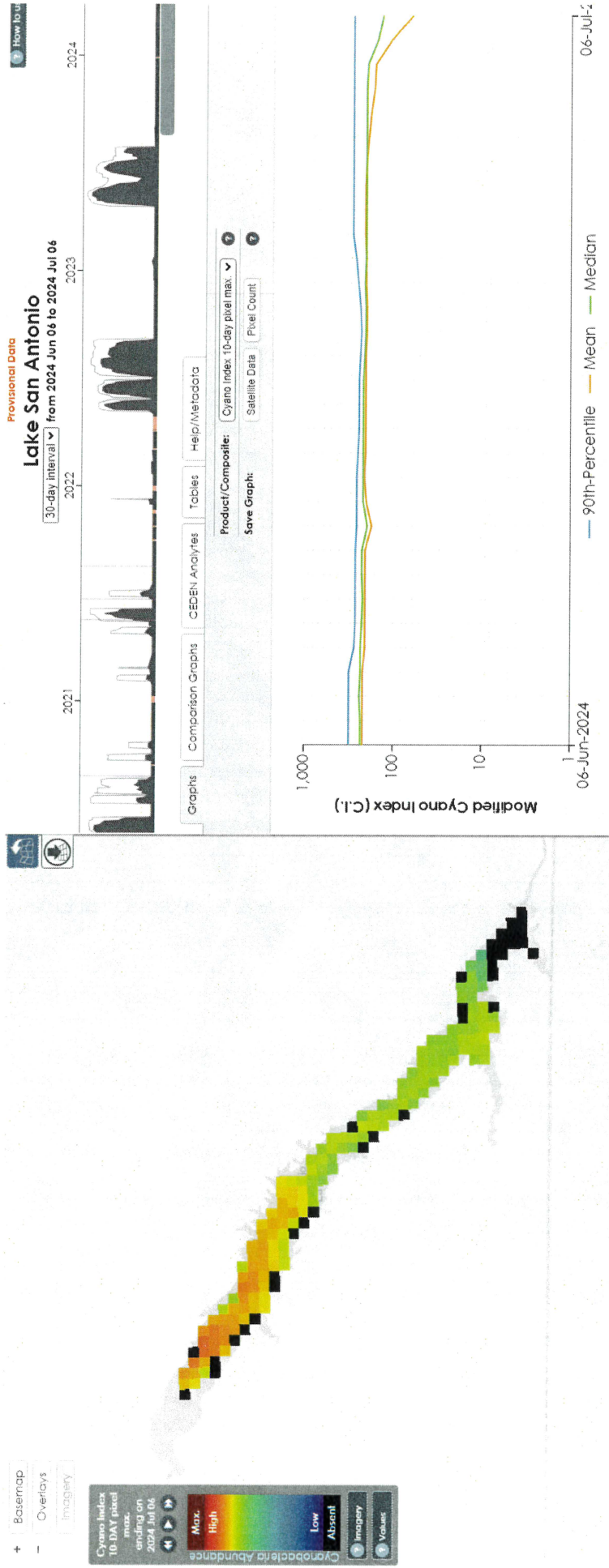
# CDFW - Harmful Algal Bloom (HAB) satellite imagery for presence of cyanobacteria

July 5, 2024



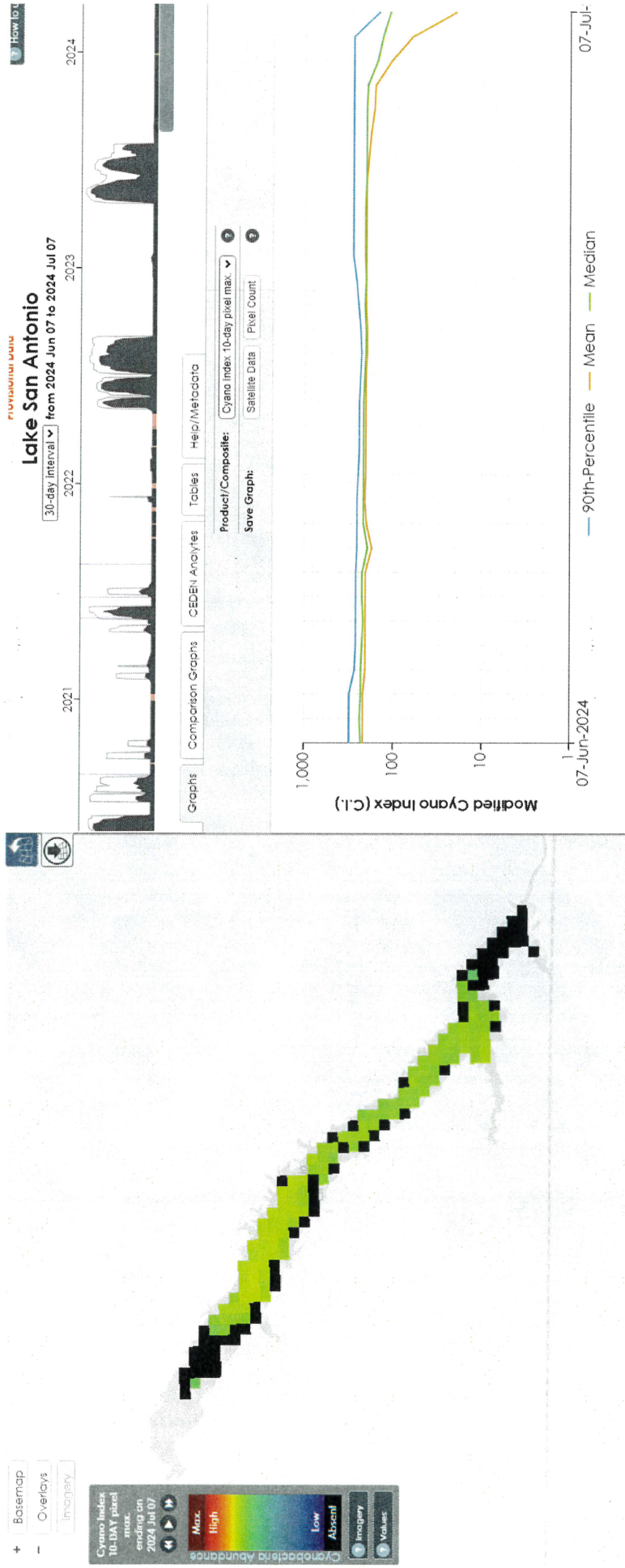
# CDFW - Harmful Algal Bloom (HAB) satellite imagery for presence of cyanobacteria

July 6, 2024



# CDFW - Harmful Algal Bloom (HAB) satellite imagery for presence of cyanobacteria

July 7, 2024



# CDFW - Harmful Algal Bloom (HAB) satellite imagery for presence of cyanobacteria

July 8, 2024

