



## **AQUATIC CONSULTING & TESTING, INC.**

1525 W. University Drive, Suite 106  
P.O. Box 1510  
Tempe, Arizona 85281  
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

07 February 2025

Ms. Fran Pawlak, Executive Director  
Dobson Ranch HOA  
2719 South Reyes  
Mesa, Arizona 85202

### **January 2025 Lake Report**

The following abbreviated report presents the results of field inspections on the Dobson Ranch lakes for the month of January 2025. This report summarizes data collected under the revised program initiated in 2019 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Therefore, this report provides visual inspection and field data for Lakes 1-8 completed during the month. Field sheets for the inspections are also included.

### **January 2025 Report Narrative Summary**

The following pages provide a summary of the monthly survey results. A brief narrative description is provided for each lake.

#### **Lake 1**

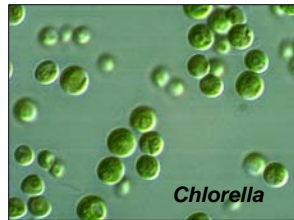
The Lake 1 temperature remained low and ranged from a high of 11.0 C to a low of 9.8 C. Water pH was 8.2 SU indicating low to moderate algae density. Dissolved oxygen (10.8-11.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Increases in dissolved oxygen concentration frequently occur during winter because of reduced respiration and decomposition rates at colder temperatures and the ability of cold water to hold more dissolved oxygen than warm water. Transparency was improved at over one meter and turbidity ranged from 4.6-5.8 NTU. Fountains were not in service throughout the reporting period.

Waterfowl mean density was less than two birds per acre (<2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

### Waterfowl Density Ranking System (AZG&FD)

No. waterfowl per acre	Ranking
<3	Excellent
3-4	Good
5-6	Fair
>6	Poor

No abnormal algae growth or submerged weeds were observed. The green unicell *Chlorella* dominated the phytoplankton. Cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected.



### Lake 2

The water temperature of Lake 2 was 19.8-11.4 C. Water pH was 8.2 SU indicating probable low algae density. Dissolved oxygen (10.5-10.8 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was approximately one meter and turbidity was typical at 5.6-5.6 NTU. Fountains were in operation.

About two waterfowl per acre (~2/A) were observed and the density is considered excellent for an urban lake. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. The dominant alga was *Chaetocerus*. Total cell density was low in the lake. No golden algae (*Prymnesium parvum* or related species) were detected.



### Lake 3

Lake temperature range was 10.2-10.7 C. Water pH was 8.2 SU. Dissolved oxygen concentration ranged from 10.4-11.5 mg/L and remained satisfactory for the fishery. Fish activity appeared normal. Transparency was stable at just under one meter. Turbidity was stable, ranging from 4.1 to 4.5 NTU. Fountains were operating throughout the reporting period.

Waterfowl density ranged from one to three birds per acre (1-3/A); an "excellent" rating. Minimal cormorants were observed. Decreased numbers of waterfowl was not expected during the migratory season. Adult midge flies did not appear to produce any nuisance issues o lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. Similar to Lakes 1 and 2, *Chlorella* and *Chaetocerus* were the dominant alga. Very low total phytoplankton density prevented any problems. No golden algae (*Prymnesium parvum* or related species) were detected.

#### **Lake 4**

The temperature of Lake 4 was 9.6-10.1C. Water pH was moderate at 8.2-8.3 SU and indicated a low to moderate algae density. Dissolved oxygen (9.9-11.3 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was slightly over one meter and turbidity remained low (4.3-4.4 NTU). Fountains were in operation.

Waterfowl density was three per acre (3/A) which is considered good. No cormorant issues were reported. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. The diatom *Anomoneis*, was the dominant form. This alga is unlikely to cause any issues. Total phytoplankton density also was relatively low. No golden algae (*Prymnesium parvum* or related species) were detected.

#### **Lake 5**

Lake temperature ranged from 10.1-10.4 C during the month. Water pH was 8.2-8.3 SU, indicative of a low to moderate algal density. Dissolved oxygen (10.0-11.3 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Transparency was just under one meter and turbidity ranged from 6.0-11.3 NTU.

Waterfowl density was about 4 birds per acre (4/A); “good” by the AZG&F ranking system. Few cormorants were observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. The dominant algae was *Diatoma*. The total cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected.

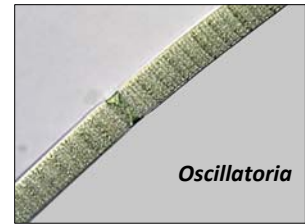


#### **Lake 6**

The temperature of Lake 6 ranged from 10.1-10.3C during the reporting period. Water pH was slightly elevated at 8.5 SU, indicating moderate algae density. Dissolved oxygen (11.5-11.7 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 6.8-8.5 NTU during the month and transparency was less than one meter. Data indicate increased algal growth.

Waterfowl density was approximately twelve (12/A) which is considered poor. Cormorants were occasionally observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth (other than increased density) or submerged weeds were observed. The dominant algae was the blue-green (Cyanophyta) filament, *Oscillatoria*. The algae can be operationally problematic, but no issues occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.



### **Lake 7**

Lake temperature ranged from 10.5-11.2 C. Water pH was 8.4-8.5 SU during the reporting period SU. Dissolved oxygen ranged from 11.2 to 12.4 mg/L and was more than satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter, with turbidity of 2.6-3.7 NTU. Fountains were in operation.

Waterfowl density was about one bird per acre (~1/A); excellent according to the Arizona Game & Fish Department rating system. No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

The dominant suspended algae in the lake was, like Lake 6, *Oscillatoria*. Density of algae was moderate. The dominant algae make the water turbid and produced surface scum. Golden algae was not identified in the lake during the reporting period.

### **Lake 8**

Lake temperatures ranged from 10.6 to 10.8 C during the month. Water pH was 8.3 SU. Dissolved oxygen concentrations were 10.8-13.0 mg/L and were satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter and turbidity correspondingly measured 2.7 to 2.9 NTU. Aerators were in operation.

Waterfowl density was variable; about seven to eight birds per acre (7-8/A). The rating would be considered poor based on the Arizona Game & Fish Department rating system. Cormorants were not observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No submerged weeds were observed. The phytoplankton was dominated by blue-green algae colonies of *Oscillatoria* and *Microcystis*. The algae can make the water appear turbid and olive green in color. Golden algae was not observed during the reporting period.

**Coming up:**

Lakes 1-4 are scheduled for comprehensive monitoring starting in March. All lakes will be visually inspected and field data collected two times during the month and checked for golden algae weekly during the peak season.

Respectfully:

**Aquatic Consulting & Testing, Inc.**



Frederick A. Amalfi, Ph.D., C.L.M.



## **SUPPORTING DOCUMENTATION**

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents



# AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106  
P.O. Box 1510  
Tempe, Arizona 85281  
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

## LABORATORY REPORT

**Client:** Dobson Ranch Association  
2719 South Reyes Road  
Mesa, AZ 85202

**Date Submitted:** 01/09/25  
**Date Reported:** 02/07/25

**Attn:** Executive Director

**Project:** Monthly Lake 1-8 Monitoring

### RESULTS

**Client ID:** Lake 1  
**ACT Lab No.:** CH00177

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:55

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	4.6	NTU

**Client ID:** Lake 2  
**ACT Lab No.:** CH00178

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:45

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	5.6	NTU

**Client ID:** Lake 3  
**ACT Lab No.:** CH00179

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:40

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	4.5	NTU

**Client ID:** Lake 4  
**ACT Lab No.:** CH00180

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:30

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	4.4	NTU

**RESULTS**

**Client ID:** Lake 5  
**ACT Lab No.:** CH00181

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:25

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	11.3	NTU

**Client ID:** Lake 6  
**ACT Lab No.:** CH00182

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:15

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	6.8	NTU

**Client ID:** Lake 7  
**ACT Lab No.:** CH00183

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:05

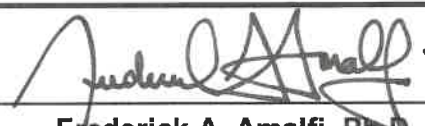
<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	2.6	NTU

**Client ID:** Lake 8  
**ACT Lab No.:** CH00184

**Sample Type:** Surface Water  
**Sample Time:** 01/09/25 07:00

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/09/25	01/09/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/08/25	01/08/25	180.1	2.7	NTU

Reviewed by: \_\_\_\_\_



**Frederick A. Amalfi, Ph.D.**  
**Laboratory Director**

# DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date: 1/9/25  
By: Am

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	11.0c	10.8 mg/L	8.2 su	SDZ 4.6 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>81</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
2	11.4 11.0c	10.5 10.8 mg/L	8.2 SU	SDZ 5.6 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>16</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
3	10.7c	10.4 mg/L	8.2 su	SDZ 4.7 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>4</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
4	10.1c	9.9 mg/L	8.3 su	SDZ 4.9 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>9</u> No/A	<input type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
5	10.1c	10.6 mg/L	8.2 su	SDZ 11.3 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>23</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
6	10.1c	11.5 mg/L	8.5 su	SDZ 6.8 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>57</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
10.5 7	10.5 10.6	10.5 12.4 mg/L	8.5 SU	SDZ 7.6 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>22</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
8	10.6c	13.2 mg/L	8.3 su	SDZ 2.7 NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>14</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerator's <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service

Notes and recommendations for treatment/operation:

1) Fountain  
~~filter~~ out

**Aquatic Consulting & Testing, Inc.**  
 1525 W. University Drive, Suite 106  
 Tempe, AZ 85281  
 480-921-8044 fax: 480-921-0049  
 lab@aquaticconsulting.com

**Chain of Custody**

**Client Project Info:**

Lake 1-8 Monthly Monitoring  
 Dobson Ranch Association

**AC&T Client Reporting Information:**

Dobson Ranch Association  
 2719 South Reyes  
 Mesa, AZ 85202  
 Attn: Fran Paqwlak, Community Manager  
 P: 480-831-8314

E:

**AC&T Sampler:**

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	1-9-25	7:55	SW
Lake 2		7:45	SW
Lake 3		7:40	SW
Lake 4		7:30	SW
Lake 5		7:25	SW
Lake 6		7:15	SW
Lake 7		7:05	SW
Lake 8		7:00	SW

Field Measurements:	PH, Temp, O2	Turb	Golden algae	Algae - ID + #	#Chl/Pheo	E. Coll	Ammonia (NH3)	TKN-Elec	NO3+NO2
None Preserved									
Na2S2O3 (Sterile)									
HNO3 (Nitric)									
H2SO4 (Sulfuric)									
Lugole									
Other:									

Page 1 of 1

**AC&T Laboratory Sample Identification**

CH00177  
 CH00178  
 CH00179  
 CH00180  
 CH00181  
 CH00182  
 CH00183  
 CH00184

**Project Location:**

Dobson Ranch

**PO#:**  
 Total # Containers: 16  
 Received Intact: YES  
 # Bottles Preserved: 16  
 Non: 0  
 Samples On Ice: YES  
 Ice Type: WET  
 Sample Receipt Temperature: 10°C

**1. RELINQUISHED BY:**

Signature: *Andrew Murray*  
 Print Name: Andrew Murray  
 Date: 1/9/25  
 Time: 12:30

**2. RECEIVED BY:**

Signature: *FRANJON*  
 Print Name: FRANJON  
 Date: 1/9/25  
 Time: 12:30

**3. RELINQUISHED BY:**

Signature:  
 Print Name:  
 Date:  
 Time:

**4. RECEIVED BY:**

Signature:  
 Print Name:  
 Date:  
 Time:

COG

**Aquatic Consulting & Testing, Inc.**  
 1525 W. University Drive, Suite 106  
 Tempe, AZ 85281  
 480-921-8044 fax: 480-921-0049  
 lab@aquaticconsulting.com

**Chain of Custody**

**Client Project Info:**

Lake 1-8 Monthly Monitoring  
 Dobson Ranch Association

**AC&T Client Reporting Information:**

Dobson Ranch Association  
 2719 South Reyes  
 Mesa, AZ 85202

Attn: Fran Paqwiak, Community Manager  
 P: 480-831-8314

E:

**AC&T Sampler:**

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	1-9-25	7:55	SW
Lake 2	1	7:45	SW
Lake 3	1	7:40	SW
Lake 4	1	7:30	SW
Lake 5	1	7:25	SW
Lake 6	1	7:15	SW
Lake 7	1	7:05	SW
Lake 8	1	7:00	SW

Sample Containers # / Preservation:	None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugols	Other:
	1					
	1					
	1					
	1					
	1					
	1					
	1					

Field Measurements:  
 pH, Temp, O2

Turb  
 Golden algae  
 Algae - ID + #  
 #Chl/Phco  
 E. Coll  
 Ammonia (NH3)  
 TKN-Elec  
 NO3+NO2  
 P-1

**AC&T Laboratory Sample Identification**

CH00177  
 CH00178  
 CH00179  
 CH00180  
 CH00181  
 CH00182  
 CH00183  
 CH00184

**Project Location:**

Dobson Ranch

**PO#:**

Lakes Contract

**Notes:**

**A C & T Sample Receipt:**

Total # Containers: 16  
 Received Intact: YES  
 # Bottles Preserved: 16  
 Non: 0  
 Samples On Ice: YES  
 Ice Type: WET  
 Sample Receipt Temperature: 10°C

**1. RELINQUISHED BY:**

Signature: *Andrew Murvet*  
 Print Name: Andrew Murvet  
 Date: 1/9/25 Time: 12:30

**2. RECEIVED BY:**

Signature: *Brandon*  
 Print Name: Brandon  
 Date: 1/9/25 Time: 12:30

**3. RELINQUISHED BY:**

Signature:  
 Print Name:  
 Date:  
 Time:

**4. RECEIVED BY:**

Signature:  
 Print Name:  
 Date:  
 Time:



# AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106  
P.O. Box 1510  
Tempe, Arizona 85281  
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

## LABORATORY REPORT

**Client:** Dobson Ranch Association  
2719 South Reyes Road  
Mesa, AZ 85202

**Date Submitted:** 01/23/25  
**Date Reported:** 02/07/25

**Attn:** Executive Director

**Project:** Monthly Lake 1-8 Monitoring

### RESULTS

**Client ID:** Lake 1  
**ACT Lab No.:** CH00460

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 12:15

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	5.8	NTU

**Client ID:** Lake 2  
**ACT Lab No.:** CH00461

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 12:05

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	5.3	NTU

**Client ID:** Lake 3  
**ACT Lab No.:** CH00462

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:55

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	4.1	NTU

**Client ID:** Lake 4  
**ACT Lab No.:** CH00463

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:45

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	4.3	NTU

## RESULTS

**Client ID:** Lake 5  
**ACT Lab No.:** CH00464

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:40

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	6.0	NTU

**Client ID:** Lake 6  
**ACT Lab No.:** CH00465

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:25

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	8.5	NTU

**Client ID:** Lake 7  
**ACT Lab No.:** CH00466

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:20

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	3.7	NTU

**Client ID:** Lake 8  
**ACT Lab No.:** CH00467

**Sample Type:** Surface Water  
**Sample Time:** 01/23/25 11:15

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Golden Algae	01/23/25	01/23/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	01/23/25	01/23/25	180.1	2.9	NTU

Reviewed by: \_\_\_\_\_

  
**Frederick A. Amalfi, Ph.D.**  
**Laboratory Director**

# DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date:

1/23/25  
Aug

By:

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	<u>9.8c</u>	<u>11.7</u> mg/L	<u>8.2</u> SU	SDZ <u>5.8</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>23</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
2	<u>9.5c</u>	<u>10.8</u> mg/L	<u>8.2</u> SU	SDZ <u>5.3</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>15</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
3	<u>10.2</u>	<u>11.5</u> mg/L	<u>8.2</u> SU	SDZ <u>4.1</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>10</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
4	<u>9.6c</u>	<u>11.3</u> mg/L	<u>8.2</u> SU	SDZ <u>4.3</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>11</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
5	<u>10.4</u>	<u>11.3</u> mg/L	<u>8.2</u> SU	SDZ <u>6.0</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>19</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
6	<u>10.3c</u>	<u>11.7</u> mg/L	<u>8.7</u> SU	SDZ <u>8.5</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>93</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
7	<u>11.2c</u>	<u>11.7</u> mg/L	<u>8.4</u> SU	SDZ <u>3.2</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>37</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
8	<u>10.8c</u>	<u>10.8</u> mg/L	<u>8.3</u> SU	SDZ <u>2.9</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>21</u> No/A	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerators <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service

Notes and recommendations for treatment/operation:

1) Fountain out

**Aquatic Consulting & Testing, Inc.**  
 1525 W. University Drive, Suite 106  
 Tempe, AZ 85281  
 480-921-8044 fax: 480-921-0049  
 lab@aquaticconsulting.com

**Chain of Custody**

**Client Project Info:**  
 Lake 1-8 Monthly Monitoring  
 Dobson Ranch Association

**AC&T Client Reporting Information:**

Dobson Ranch Association  
 2719 South Reyes  
 Mesa, AZ 85202  
 Attn: Fran Paqwlak, Community Manager  
 P: 480-831-8314

E:

**AC&T Sampler:**

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	1/23/25	12:15	SW
Lake 2	1/23/25	12:05	SW
Lake 3	1/23/25	11:55	SW
Lake 4	1/23/25	11:45	SW
Lake 5	1/23/25	11:40	SW
Lake 6	1/23/25	11:35	SW
Lake 7	1/23/25	11:20	SW
Lake 8	1/23/25	11:15	SW

Field Measurements:	Turb	Golden algae	Algae - ID + #	#Chl/Pheo	E. Coll	Ammonia (NH3)	TKN-Elec	NO3+NO2	P-T	None Preserved	M42503 (Sterile)	HNO3 (Nitro)	H2SO4 (Sulfuric)	Lugole	Other:
pH, Temp, O2	X	X	X	X	X	X	X	X	X	1					CH00460
	X	X	X	X	X	X	X	X	X	1					CH00461
	X	X	X	X	X	X	X	X	X	1					CH00462
	X	X	X	X	X	X	X	X	X	1					CH00463
	X	X	X	X	X	X	X	X	X	1					CH00464
	X	X	X	X	X	X	X	X	X	1					CH00465
	X	X	X	X	X	X	X	X	X	1					CH00466
	X	X	X	X	X	X	X	X	X	1					CH00467

**AC&T Laboratory Sample Identification**

**Project Location:**

<b>Dobson Ranch</b>	Total # Containers:	16
<b>Lakes Contract</b>	Received Intact:	YES <input checked="" type="radio"/> NO <input type="radio"/>
<b>Notes:</b>	# Bottles Preserved:	16
	Samples On Ice:	YES <input checked="" type="radio"/> NO <input type="radio"/>
	Ice Type:	WET <input checked="" type="radio"/> BLUE <input type="radio"/>
	Sample Receipt Temperature:	12°C

**1. RELINQUISHED BY:**

Signature: *Andrew Marrett*  
 Print Name: Andrew Marrett  
 Date: 1/23/25 Time: 12:45

**2. RECEIVED BY:**

Signature: *BA*  
 Print Name: Brandon  
 Date: 1/23/25 Time: 12:45

**3. RELINQUISHED BY:**

Signature: \_\_\_\_\_  
 Print Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

**4. RECEIVED BY:**

Signature: \_\_\_\_\_  
 Print Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

208

**Aquatic Consulting & Testing, Inc.**  
 1525 W. University Drive, Suite 106  
 Tempe, AZ 85281  
 480-921-8044 fax: 480-921-0049  
 lab@aquaticconsulting.com

**Chain of Custody**

Client Project Info:

Lake 1-8 Monthly Monitoring  
 Dobson Ranch Association

**AC&T Client Reporting Information:**

Dobson Ranch Association  
 2719 South Reyes  
 Mesa, AZ 85202  
 Attn: Fran Paqwlak, Community Manager  
 P: 480-831-8314

**AC&T Sampler:**

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	1/23/25	12:15	SW
Lake 2	12:05		SW
Lake 3	11:55		SW
Lake 4	11:45		SW
Lake 5	11:40		SW
Lake 6	11:25		SW
Lake 7	11:20		SW
Lake 8	11:15		SW

Field Measurements:	Turb	Golden algae	Algae-ID+#	#Chl/Pheo	E. Coll	Ammonia (NH3)	TKN-Elec	NO3+NO2	P-T	None Preserved	NAS203 (Stvle)	HNO3 (Nitr)	H2SO4 (Sulfuric)	Lugole	Other:
pH, Temp, O2	X	X	X	X	X	X	X	X	X	1					CH00460
	X	X	X	X	X	X	X	X	X	1					CH00461
	X	X	X	X	X	X	X	X	X	1					CH00462
	X	X	X	X	X	X	X	X	X	1					CH00463
	X	X	X	X	X	X	X	X	X	1					CH00464
	X	X	X	X	X	X	X	X	X	1					CH00465
	X	X	X	X	X	X	X	X	X	1					CH00466
	X	X	X	X	X	X	X	X	X	1					CH00467

Sample Containers # / Preservation:

Page 1 of 1

**AC&T Laboratory Sample Identification**

Project Location:	A C & T Sample Receipts	
Dobson Ranch	Total # Containers:	16
PO#: Lakes Contract	Received Intact:	YES <input checked="" type="radio"/> NO <input type="radio"/>
	# Bottles Preserved:	Non: 16
	Samples On Ice:	YES <input checked="" type="radio"/> NO <input type="radio"/>
	Ice Type:	WET <input checked="" type="radio"/> BLUE <input type="radio"/>
	Sample Receipt Temperature:	12°C

1. RELINQUISHED BY:		2. RECEIVED BY:	
Signature:	Signature:	Signature:	Signature:
Print Name: Andrew Munnethy	Print Name: Brandon	Print Name: Brandon	Print Name: Brandon
Date: 1/23/25	Date: 1/23/25	Date: 1/23/25	Date: 1/23/25
Time: 12:45	Time: 12:45	Time: 12:45	Time: 12:45

3. RELINQUISHED BY:		4. RECEIVED BY:	
Signature:	Signature:	Signature:	Signature:
Print Name:	Print Name:	Print Name:	Print Name:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time: