



AQUATIC CONSULTING & TESTING, INC.

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Lic. No. AZ0003

05 September 2025

Dobson Ranch HOA
2719 South Reyes
Mesa, Arizona 85202

RE: August 2025 Report

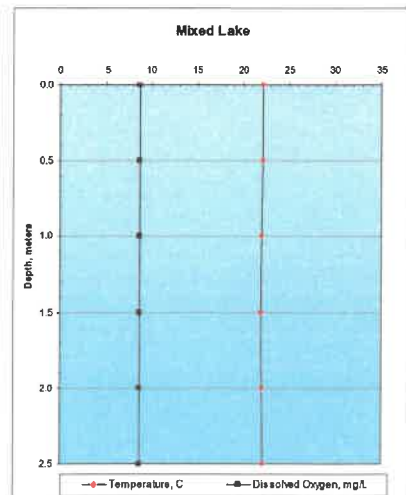
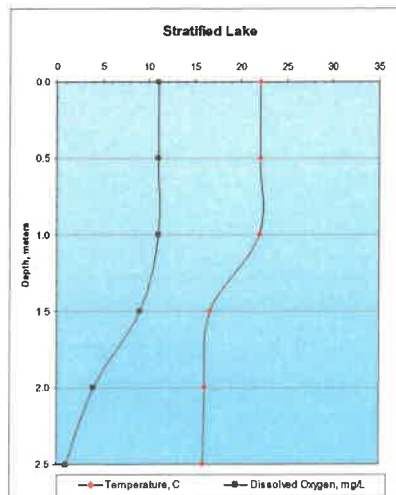
The following report presents the results of field inspections on the Dobson Ranch lakes for the month of August 2025. This report summarizes data collected under the updated program started in 2019 and expanded in 2020 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Comprehensive testing on Lakes 5-8 was completed during the month and laboratory reports are provided. Comparisons to the last comprehensive test (June 2024) are provided in the narrative for those lakes. Please note because of low water levels in the downstream lakes, no temperature and oxygen depth profiles were collected. Field sheets for the inspection weeks are included.

A number of tools have been used to evaluate and quantify the water quality of each lake. These include: Arizona Department of Environmental Quality Numeric Targets for Urban Lakes, the Carlson Trophic Status Index (TSI), and a Lake Report Card based on that used by Arizona Game and Fish Department that was developed by Aquatic Consulting & Testing, Inc.

The following provides brief descriptions of some of the more important parameters.

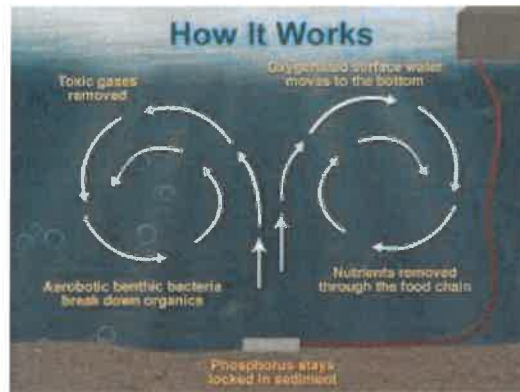
Temperature and Oxygen

Density differences in water caused by temperature produce a physical barrier to the exchange of gases and nutrients between water layers. Typically warmer (less dense) water rests above deeper, cooler (more dense) water. Deep waters can become anoxic (oxygen poor) and cause the formation and release of



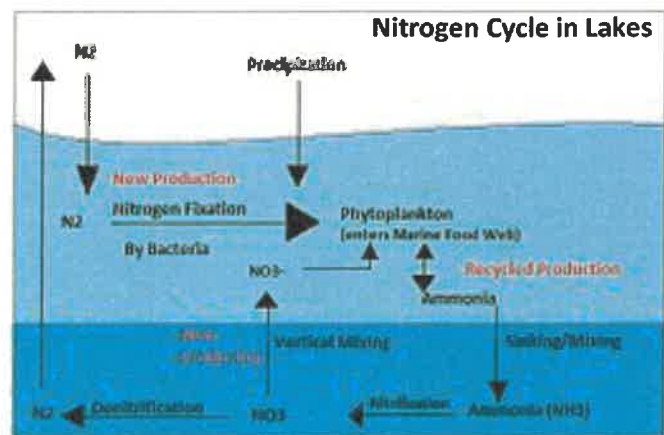
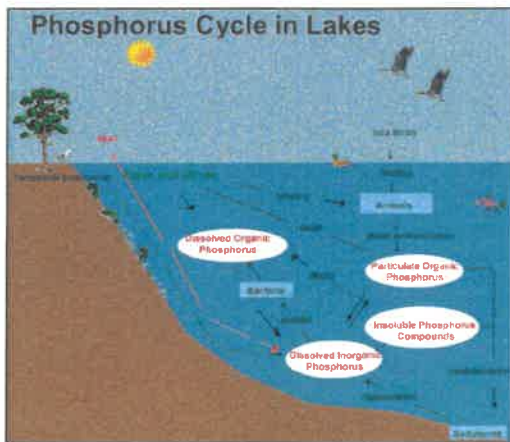
toxic gases as hydrogen sulfide and ammonia, and the release of plant nutrients as phosphates. A vertically mixed lake rarely suffers from such issues.

Aeration systems are designed to circulate and distribute oxygen vertically in the water column. Circulation is necessary for two primary purposes: (1) to deliver oxygen to the deeper waters for fish survival and (2) to maintain an aerobic environment throughout the lake to prevent the release and distribution of phosphates, ammonia, and sulfide from the anaerobic sediment.



Nutrients

Algae are plants and require nitrogen and phosphorus for growth. In the desert southwest, large growths of planktonic algae typically form in the summer when total phosphorus concentrations are above 0.030 mg/L. Nitrogen values usually need to be at least 10 times that of phosphorus and in a soluble, usable (nitrate or ammonia) form to stimulate algae growth. Phosphorus and nitrogen cycles in the aquatic environment are illustrated below.



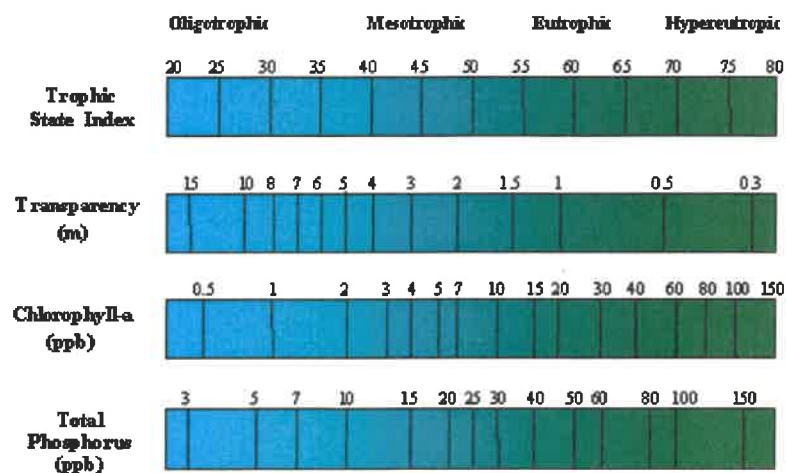
Algae and Aquatic Weeds

Algae are beneficial to a lake as they provide food for aquatic organisms and produce oxygen. However, some algae are undesirable and an overabundance of algae reduces aesthetic appeal and interferes with the ecological balance of the environment. Large die offs of algae can deplete dissolved oxygen in the water via bacterial utilization of the gas during decomposition of the plant biomass. Blue-green (Cyanophyta) algae are least desirable because some forms can form stringers (long filaments) and large colonies (masses) and are difficult to chemically manage because of their mucilaginous coatings.

Submerged weeds can be beneficial because they also produce oxygen and provide habitat and shelter for aquatic animals. However, an overabundance of weeds reduces aesthetic appeal, interferes with fishing and boating activities, interferes with the ecological balance of the environment, and can also deplete dissolved oxygen if a rapid die-off occurs.

Trophic Status Index

The Carlson Trophic Status Index (TSI) is a series of calculations that attempt to put a numerical value on water quality. The more algae and greener a lake is, the more nutrients a lake has, and the less transparent the water becomes, the higher the trophic status and the greater the TSI value. Three values are calculated using the Secchi disk depth, total phosphorus concentration, and chlorophyll measurement to obtain an average TSI. Those lakes with relatively low TSI values are unproductive and termed oligotrophic. Those lakes with very high TSI values are classified as productive (eutrophic). Those lakes with TSI values falling in between are considered mesotrophic.



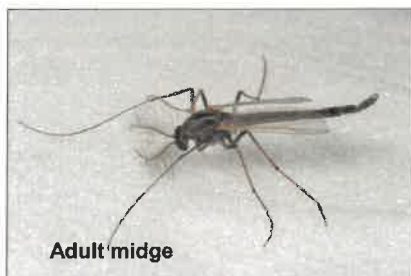
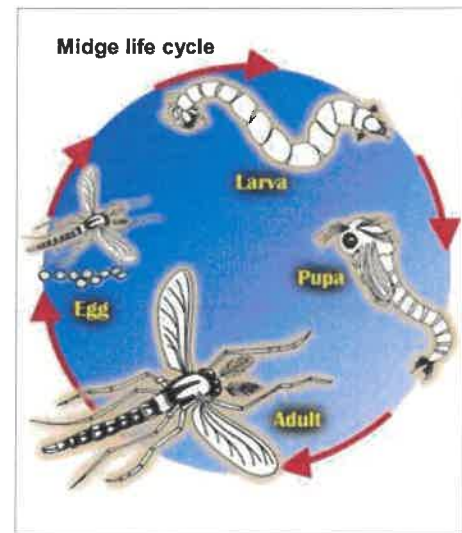
The Trophic Status report addendum provides each of these values for the sampling sites. For southern Arizona, a TSI of less than 60 is the target for reasonable aesthetic quality. Fisheries often flourish when TSI values are in the 55 to 65 range. Severe aesthetic and recreational problems occur when conditions result in TSI values of 80 or higher.

General Characteristics of Oligotrophic and Eutrophic Lakes

Condition	Oligotrophic	Eutrophic
Productivity	Low	High
Algae density	Low	High
Nutrient concentrations	Low	High
Hypolimnion oxygen content	High	Low
Sediment nutrient release	Low to none	High
Organic matter	Low	High
Light transparency	Deep	Shallow
Macrophyte (weed) density	Low	High

Midge flies

Midge flies are common inhabitants of most lakes. Adult females lay hundreds of eggs on the water surface. The eggs settle to the lake bottom and hatch in a few days. Larvae develop and grow in the superficial sediments over a three to four week period. In about 30 days the insect larvae become pupae, rise in the water column, and emerge as adult flies. The adults tend to swarm at dusk and dawn and become a nuisance. They fly into residents' eyes and mouths, congregate under eaves of houses, and leave a sticky messy residue when they die. Management techniques may include stocking of bottom-feeding fishes and application of bacterial or chemical larvicides. The primary control of midge flies has been stocking of fish that eat the larvae living in the lake sediment.



Waterfowl

The adverse impacts of excessive waterfowl include fecal matter deposition and public health issues, turf destruction, aesthetic detraction, and fish consumption. The Arizona Game and Fish Department has recently adopted the following classification for ducks

counts (per acre) in urban fishing lakes: <3 (excellent), 3-4 (good), 5-6 (fair), and >6 (poor; relocate non-migratory).

August 2025 Report Narrative Summary

The following pages provide a summary of the monthly survey results. Comprehensive analyses were conducted on Lakes 5-8 on 08 August 2025. A brief narrative description is provided for each lake. Data are additionally qualified in the Lake Report Card (See Supporting Documentation). Lakes 1-8 received visual examination and basic water quality testing on 08 and 20 August 2025.

Lakes 5-8:

Lake 5

The Lake 5 temperatures ranged from 33.5-35.6 C (93-96 F). Water pH ranged from 8.3 to 8.6 SU indicating low to moderate algae density. Dissolved oxygen (7.9-8.2 mg/L) was typical and satisfactory for the fishery and fish activity appeared normal. Transparency ranged from 0.65 to 0.80 m and turbidity remained elevated at 24 NTU.

Alkalinity (130 mg/L as CaCO₃) and hardness (191 mg/L as CaCO₃) were fairly stable. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake was good at 656 mg/L.

Nutrient concentrations (nitrogen and phosphorus) increased and resulted in an increase in, but still modest, algae density (9.11×10^3 cells/mL). The dominant alga was the filament, *Oscillatoria* (Cyanophyta); a sometimes problematic form. Chlorophyll concentration, indicative of algal biomass, doubled to 7.81 ug/L, but was still a modest value. No abnormal algae growth or submerged weeds were observed. No potentially toxic golden algae (*Prymnesium parvum* or related species) were detected.



Oscillatorias

Bio-available nitrogen and total nitrogen were 0.11 mg/L and 0.70 mg/L, respectively. Phosphorus concentration more than doubled and increased to an elevated 0.124 mg/L. Ammonia concentration was moderate at 0.11 mg/L. At ambient temperature and pH, no toxicity issues would result.



Prymnesium

Waterfowl mean density was two birds per acre (2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted.

Midge fly larvae density was low (80/m²) and should produce no issues to lakeside residents or visitors.

The mean TSI value increased 11 units to 63, primarily from the increase in phosphorus. The lake moved into the eutrophic category. The lake may produce algal surface scum and was already dominated by blue-green algae. Eutrophic lakes are usually less aesthetically appealing, but support strong fisheries.

The *E. coli* concentration was 123 MPN/100 mL. For waters of the State, the maximum bacteria level for full body contact (FBC=swimming) and partial body contact (PBC=fishing and boating) recreation, is 126/100 mL (30-day geometric mean).

The Lake Report Card value for August 2025 was 42; down three (3) units from June 2025. The score kept the lake into the "good" category. Elevated phosphorus and turbidity were the primary factors for the lower score.

Lake 6

Lake 6 temperatures ranged from 32.9 to 35.0 C (91-95 F). Water pH was 8.5-8.6 SU indicating low to moderate algae density. Dissolved oxygen (7.4-8.0 mg/L) increased and was satisfactory for the fishery and fish activity appeared normal. Transparency ranged from 0.35 to 0.60 m and turbidity was 28 NTU.

Alkalinity (137 mg/L as CaCO₃) and hardness (204 mg/L as CaCO₃) increased slightly. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake increased and remained satisfactory at 876 mg/L.

Nutrient concentrations (nitrogen and phosphorus) supported a slightly elevated total algae density of 1.22×10^5 cells/mL; an order of magnitude increase from June. The dominant alga was the blue-green (Cyanophyta) filament, *Oscillatoria*. However, the chlorophyll concentration, indicative of algal biomass, was low and stable at 5.80 ug/L. No abnormal algae growth or submerged weeds were observed. No potentially toxic golden algae (*Prymnesium parvum* or related species) were detected.

Bio-available nitrogen and total nitrogen concentrations were moderate at 0.10 and 1.10 mg/L, respectively. Phosphorus concentration was elevated at 0.070 mg/L. Ammonia was relatively low at 0.10 mg/L. At ambient temperature and pH, the value falls well under the chronic toxicity limit.

Waterfowl mean density was 1-4 birds per acre which is considered good to 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. Midge fly larvae density was quite low at 40/m².

The mean TSI value increased three units to 58 and the lake remained in the slightly-eutrophic category. Traditionally, such lakes may have decreased transparency, anoxia

in hypolimnion during the summer. However, lake management procedures as lake dye addition, aeration, and herbivorous fish stocking reduce potential for negative effects.

The *E. coli* concentration was 131 MPN/100 mL. The State surface water maximum bacteria level for full body contact (FBC=swimming) and partial body contact (PBC=fishing and boating) recreation, is 126/100 mL (30-day geometric mean).

The Lake Report Card value for August 2025 was 42; down six (6) units from June 2025. Increased nutrients and algae density were key factors in the score reduction. The lake remained in the “good” category.

Lake 7

Lake 7 temperatures ranged from 31.6 to 33.2 C (89-92 F). Water pH remained stable at 8.9-9.1 SU indicating a possible elevated algae density. Dissolved oxygen (8.6-8.8 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was poor at 0.35 to 0.50 m and turbidity highly elevated at 119 NTU.

Alkalinity (108 mg/L as CaCO₃) was stable and hardness increased to 253 mg/L as CaCO₃. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake increased to 1310 mg/L.

Nutrient concentrations (nitrogen and phosphorus) were moderate and would typically support at least a moderate total algae density. However, this was not the case. Algae density increased to 1.56×10^6 cells/mL; an elevated level. Blue-green (Cyanophyta) algae were dominant (*Oscillatoria*). Chlorophyll concentration, indicative of algal biomass, was moderate at 17.1 ug/L. No abnormal algae growth was visible and no submerged weeds were observed. No potentially toxic golden algae (*Prymnesium parvum* or related species) were detected.

Bio-available nitrogen and total nitrogen concentrations were 0.11 mg/L and 1.70 mg/L, respectively. Phosphorus concentration was at a slightly elevated concentration of 0.043 mg/L. Ammonia was moderate at 0.11 mg/L, and at ambient temperature and pH no toxicity issues would result.

Waterfowl mean density was less than two (<2) birds per acre 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. Midge fly density was low (160/m²) and should produce minimal issues to lakeside residents or visitors.

The mean TSI value increased three units to 60, compared to June 2025. The lake still placed in the slightly eutrophic category. Traditionally, such lakes may have decreased transparency, low deep water oxygen concentrations during the summer and

submerged macrophyte issues. However, lake management procedures as lake dye addition, aeration, and herbivorous fish stocking reduce potential for negative effects.

The *E. coli* concentration was 61 MPN/100 mL. The maximum bacteria level for full body contact (FBC=swimming) and partial body contact (PBC=fishing and boating) recreation, is 126/100 mL (30-day geometric mean).

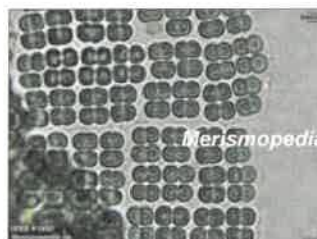
The Lake Report Card value for August 2025 was 41; down six (6) units from June 2025, but remaining in the “good” category.

Lake 8

Lake 8 temperatures ranged from 31.0-31.3 C (88 F). Water pH ranged from 8.4 to 8.6 SU indicating a probable moderate algae density. Dissolved oxygen (8.4-8.7 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was 0.75-0.85 m and turbidity measured 5.8 NTU.

Alkalinity (137 mg/L as CaCO₃) and hardness (342 mg/L as CaCO₃) were within the typical range and similar to most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake increased to 1,700 mg/L.

Nutrient concentrations (nitrogen and phosphorus) were moderate and would typically support a low to moderate total algae density. Cell density corresponded to the nutrient levels at 1.02×10^4 cells/mL. Blue-green (Cyanophyta) colonies *Coelosphaerium* and *Merismopedia* dominated the phytoplankton. Chlorophyll concentration, indicative of algal biomass, was relatively low at 7.41 ug/L. No abnormal algae growth or submerged weeds were observed. No potentially toxic golden algae (*Prymnesium parvum* or related species) were detected.



Bio-available nitrogen and total nitrogen concentrations were stable at 0.15 mg/L and 1.50 mg/L, respectively. Phosphorus increased to 0.053 mg/L. As with the other lakes, ammonia was moderate in concentration at 0.15 mg/L. At ambient temperature and pH, no toxicity issues would result. No signs of fish stress were observed.

Waterfowl mean density was <1 to 2 birds per acre 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. Midge fly density was low (40/m²) and should produce no issues to lakeside residents or visitors.

The mean TSI value increased one unity to 57. The lake remained in the slightly eutrophic category. Traditionally, such lakes may have decreased transparency, low deep water oxygen concentrations during the summer and submerged macrophyte issues. However, lake management procedures as lake dye addition, aeration, and herbivorous fish stocking reduce potential for negative effects.

The *E. coli* concentration was 16 MPN/100 mL. The maximum bacteria level for full body contact (FBC=swimming) and partial body contact (PBC=fishing and boating) recreation, is 126/100 mL (30-day geometric mean).

The Lake Report Card value for August 2025 was 44; down one (1) unit from the June 2025 score, and remained in the “good” category.

Lakes 1-4

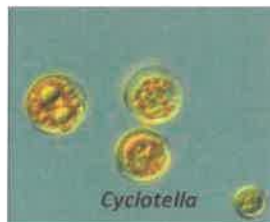
Lake 1 had a moderate and stable pH (8.4-8.5 SU) and adequate oxygen concentration (7.5-7.8 mg/L) to support the fishery. Water temperature ranged from 32.5-34.7 C (91-94 F). The lake was fairly clear with turbidity of 6.7-7.3 NTU. The dominant alga was *Navicula*, a diatom (Bacillariophyta). No golden algae or related species were observed. No issues with algae, weeds, or fish occurred.



Lake 2 had a moderate and stable pH (8.5 SU) and adequate oxygen concentration (6.9-7.1 mg/L) to support the fishery. Water temperature ranged from 32.2-34.7 C 90-94 F). The lake was fairly clear with turbidity of 8.2-9.5 NTU. The dominant alga was the *Coelastrum*, a green (Chlorophyta) colony. No golden algae or related species were observed and no issues with other algae, submerged weeds, or fish occurred.



Lake 3 pH ranged from 8.4 to 8.6 SU. The oxygen concentration ranged from 7.4 to 7.6 mg/L and supported the fishery. Temperature ranged from 32.4-34.5 C (90-94 F). Lake water was slightly turbid with turbidity measuring 9.8-10.5 NTU. The dominant algae were *Cyclotella* (centric diatom) and *Pediastrum* (green colony). No golden algae or related species were observed. No issues with algae, weeds, or fish occurred.



Lake 4 pH ranged from 8.4 to 8.6 SU. The oxygen concentration ranged from 7.1-7.3 mg/L and supported the fishery. Temperature ranged from 31.0 to 31.3 C (88 F). Lake clarity was diminished with turbidity of 14.4-15.6 NTU. No golden algae were observed. The dominant algae were Pediastrum and the diatom, *Surirella*.



Next Month:

Lakes 1-4 are scheduled for comprehensive monitoring in September. All lakes will be visually inspected and field data collected two times during the month, with all lakes checked for golden algae

Respectfully:

Aquatic Consulting & Testing, Inc.

A handwritten signature in black ink that reads "Frederick A. Amalfi".

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



Definitions: Terms

Benthos: Bottom dwelling organisms

Carlson Trophic Index: A series of calculations incorporating transparency, chlorophyll and phosphorus data used to provide a quantitative estimate of the degree of eutrophication in a lake.

Chlorophyll: Pigment in green plants involved in photosynthesis used to estimate the density of algae in the water column.

Coliform bacteria: Enteric bacteria used as an indicator of the sanitary condition of the water.

Eutrophication: Process by which lakes age by increasing in nutrient (nitrogen and phosphorus) content and plant life.

Fecal bacteria: Any of the bacteria types provided by the fecal matter of warm-blooded organisms.

Macrophyte: Large plant, observable without the aid of a microscope, that may be floating, submerged or emergent.

Midge: Small, flying, non-biting "gnat-like" insect whose larval stage exists in the lake sediments (bloodworm).

N/A: not applicable; insufficient data or too early in development of lake (an arbitrary 3 rating is provided for these items).

pH: -log hydrogen ion conc.; amount of acid in the water identified on scale 1-14; 1 being most acid, 7 neutral, and 14 being most caustic.

Phytoplankton (algae): Microscopic plant fraction of the plankton community.

Piping: Act of fish coming to surface of water and capturing a bubble of air in their mouth; a sign of low oxygen concentrations.

Plankton: Organisms of relatively small size that have relatively small powers of locomotion or that drift in the water.

Sedimentation: Rate at which solids accumulate on the lake bottom.

Transparency (SDz): Depth to which a standard disk can be observed in the water column.

Turbidity: Degree to which particles and color in the water scatter light; the "cloudiness" of the water.

Zooplankton: Animal fraction of the plankton community

CLIENT: DOBSON RANCH

DATE: 08-Aug-25

	LAKE	LAKE	LAKE	LAKE			
PARAMETER	1	2	3	4			
Secchi Disk Depth (m)	0.80	0.90	0.75	0.95			
Phosphorus, total (ug/L)	124	70	43	53			
Chlorophyll-a (ug/L)	7.8	5.8	17.1	7.4			
	LAKE	LAKE	LAKE	LAKE			
TSI VALUES	1	2	3	4			
Secchi Disk Depth	63	62	64	61			
Phosphorus, total	74	65	58	61			
Chlorophyll-a	51	48	58	50			
AVERAGE	63	58	60	57	60		

SYNOPSIS OF TROPHIC STATUS RESULTS:

Carlson Trophic Status Index (TSI): The classical interpretation of various Index value ranges is provided below:

- TSI<30 **Classic Oligotrophic**; clear water, oxygenated hypolimnion throughout the year; suitable for cold water fishery in deep lakes.
- TSI 30-40 **Oligotrophic**; shallow lakes may exhibit anoxic hypolimnion in summer.
- TSI 41-50 **Mesotrophic**; moderately clear water, increasing chance of anoxia in hypolimnion during the summer.
- TSI 51-60 **Slightly Eutrophic**; decreased transparency, anoxia in hypolimnion during the summer expected, macrophyte problems possible, warm water fishery only.
- TSI 61-70 **Eutrophic**; dominance of blue-green algae and algal scums probable, can have extensive macrophyte problems.
- TSI 70-80 **Highly Eutrophic**; heavy algal blooms, dense macrophyte beds possible, limited light penetration.
- TSI>80 **Hypereutrophic**; algal scums, summertime fish kills, limited light penetration, few macrophytes.

SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents



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Lic. No. AZ0003

LABORATORY REPORT

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

Date Submitted: 08/08/25
Date Reported: 09/08/25

Attn: Executive Director

Project: Monthly Lake 5-8 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CH04676

Sample Type: Surface Water
Sample Time: 08/08/25 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>			
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	7.8	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.4	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	34.7	C
Turbidity	08/08/25	08/08/25	180.1	7.5	NTU

Client ID: Lake 2
ACT Lab No.: CH04677

Sample Type: Surface Water
Sample Time: 08/08/25 07:20

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	6.9	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.5	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	34.7	C
Turbidity	08/08/25	08/08/25	180.1	9.5	NTU

Client ID: Lake 3
ACT Lab No.: CH04678

Sample Type: Surface Water
Sample Time: 08/08/25 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>			
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	7.4	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.3	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	34.5	C
Turbidity	08/08/25	08/08/25	180.1	9.8	NTU

RESULTS

Client ID: Lake 4
ACT Lab No.: CH04679

Sample Type: Surface Water
Sample Time: 08/08/25 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>			
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	7.1	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.4	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	33.6	C
Turbidity	08/08/25	08/08/25	180.1	15.6	NTU

Client ID: Lake 5
ACT Lab No.: CH04680

Sample Type: Surface Water
Sample Time: 08/08/25 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>			
Algae Count	08/12/25	08/12/25	SM 10200 F	See Attached	cells/mL
Algae Identification	08/12/25	08/12/25		See Attached	
Chl/Pheo Ratio	09/03/25	09/03/25	SM10200 H	1.52	
Chlorophyll a	09/03/25	09/03/25	SM10200 H	7.81	ug/L
Pheophytin a	09/03/25	09/03/25	SM10200 H	2.70	ug/L
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	8.4	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.1	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	31.3	C
Alkalinity, Total	08/13/25	08/13/25	SM 2320 B	130	mg/L as CaCO3
Ammonia - N	08/09/25	08/09/25	SM4500NH3 D	0.11	mg/L as N
Nitrate + Nitrite - N	08/27/25	08/27/25	SM4500NO3 E	<0.05	mg/L as N
Phosphorus, Total	09/01/25	09/03/25	365.3	0.124	mg/L as P
Total Hardness	08/19/25	08/19/25	SM2340C	191	mg/L as CaCO3
Total Kjeldahl Nitrogen	08/29/25	08/30/25	SMNorg C,NH3 C/D	0.7	mg/L as N
E. coli, Collert	08/08/25	08/09/25	SM 9223 B	123	MPN/100 mL
Total Dissolved Solids	08/13/25	08/15/25	SM2540 C	656	mg/L
Turbidity	08/08/25	08/08/25	180.1	57	NTU

RESULTS

Client ID: Lake 6
ACT Lab No.: CH04681

Sample Type: Surface Water
Sample Time: 08/08/25 08:00

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Algae Count	08/12/25	08/12/25	SM 10200 F	See Attached	cells/mL
Algae Identification	08/12/25	08/12/25		See Attached	
Chl/Pheo Ratio	09/03/25	09/03/25	SM10200 H	1.56	
Chlorophyll a	09/03/25	09/03/25	SM10200 H	2.80	ug/L
Pheophytin a	09/03/25	09/03/25	SM10200 H	1.46	ug/L
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	7.9	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.3	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	35.6	C
Alkalinity, Total	08/13/25	08/13/25	SM 2320 B	137	mg/L as CaCO3
Ammonia - N	08/09/25	08/09/25	SM4500NH3 D	0.10	mg/L as N
Nitrate + Nitrite - N	08/27/25	08/27/25	SM4500NO3 E	<0.05	mg/L as N
Phosphorus, Total	09/01/25	09/03/25	365.3	0.070	mg/L as P
Total Hardness	08/19/25	08/19/25	SM2340C	204	mg/L as CaCO3
Total Kjeldahl Nitrogen	08/29/25	08/30/25	SMNorg C,NH3 C/D	1.1	mg/L as N
E. coli, Colilert	08/08/25	08/09/25	SM 9223 B	131	MPN/100 mL
Total Dissolved Solids	08/13/25	08/15/25	SM2540 C	876	mg/L
Turbidity	08/08/25	08/08/25	180.1	10.3	NTU

RESULTS

Client ID: Lake 7
ACT Lab No.: CH04682

Sample Type: Surface Water
Sample Time: 08/08/25 08:10

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Algae Count	08/12/25	08/12/25	SM 10200 F	See Attached	cells/mL
Algae Identification	08/12/25	08/12/25		See Attached	
Chl/Pheo Ratio	09/03/25	09/03/25	SM10200 H	1.59	
Chlorophyll a	09/03/25	09/03/25	SM10200 H	17.1	ug/L
Pheophytin a	09/03/25	09/03/25	SM10200 H	3.35	ug/L
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	7.9	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.3	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	35.0	C
Alkalinity, Total	08/13/25	08/13/25	SM 2320 B	108	mg/L as CaCO3
Ammonia - N	08/09/25	08/09/25	SM4500NH3 D	0.11	mg/L as N
Nitrate + Nitrite - N	08/27/25	08/27/25	SM4500NO3 E	<0.05	mg/L as N
Phosphorus, Total	09/01/25	09/03/25	365.3	0.043	mg/L as P
Total Hardness	08/19/25	08/19/25	SM2340C	253	mg/L as CaCO3
Total Kjeldahl Nitrogen	08/29/25	08/30/25	SMNorg C,NH3 C/D	1.7	mg/L as N
E. coli, Colilert	08/08/25	08/09/25	SM 9223 B	61	MPN/100 mL
Total Dissolved Solids	08/13/25	08/15/25	SM2540 C	1310	mg/L
Turbidity	08/08/25	08/08/25	180.1	11.2	NTU

RESULTS

Client ID: Lake 8
ACT Lab No.: CH04683

Sample Type: Surface Water
Sample Time: 08/08/25 08:15

Parameter	Analysis Date		Method No.	Result	Unit
	Start	End			
Algae Count	08/12/25	08/12/25	SM 10200 F	See Attached	cells/mL
Algae Identification	08/12/25	08/12/25		See Attached	
Chl/Pheo Ratio	09/03/25	09/03/25	SM10200 H	1.57	
Chlorophyll a	09/03/25	09/03/25	SM10200 H	7.41	ug/L
Pheophytin a	09/03/25	09/03/25	SM10200 H	1.70	ug/L
Oxygen, Dissolved Field	08/08/25	08/08/25	SM4500 O G	8.8	mg/L as O2
pH, Field	08/08/25	08/08/25	SM4500H+ B	8.9	SU
Temperature, Field	08/08/25	08/08/25	SM2550 B	34.2	C
Alkalinity, Total	08/18/25	08/18/25	SM 2320 B	137	mg/L as CaCO3
Ammonia - N	08/09/25	08/09/25	SM4500NH3 D	0.15	mg/L as N
Nitrate + Nitrite - N	08/27/25	08/27/25	SM4500NO3 E	<0.05	mg/L as N
Phosphorus, Total	09/01/25	09/03/25	365.3	0.053	mg/L as P
Total Hardness	08/19/25	08/19/25	SM2340C	342	mg/L as CaCO3
Total Kjeldahl Nitrogen	08/29/25	08/30/25	SMNorg C,NH3 C/D	1.5	mg/L as N
E. coli, Colilert	08/08/25	08/09/25	SM 9223 B	16	MPN/100 mL
Total Dissolved Solids	08/13/25	08/15/25	SM2540 C	1700	mg/L
Turbidity	08/08/25	08/08/25	180.1	9.5	NTU

Reviewed by:



Frederick A. Amalfi, Ph.D.
Laboratory Director

ALGAE IDENTIFICATION

AC&T Lab No.	CH04680	Date Collected	08/08/25
Client I.D.	Lake 5	Collected By	AC&T

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta
Forms: u=unicell; c=colony; f=filament; g= flagellate

Genus	Div.-Form	Rel. Count	Total per mL	Comp.	Genus	Div.-Form	Rel. Count	Total per mL	Comp
<i>Achnanthes</i>	bac-u				<i>Microcystis</i>	cyn-c			
<i>Anabaena</i>	cyn-f				<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u	10	920	10.10%
<i>Asterionella</i>	bac-c				<i>Nitzschia</i>	bac-u			
<i>Botryococcus</i>	chl-c				<i>Ocystis</i>	chl-c			
<i>Carteria</i>	chl-ug				<i>Oscillatoria</i>	cyn-f	68	6259	68.69%
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c	8	736	8.08%
<i>Chlamydomonas</i>	chl-ug				<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u	1	92	1.01%	<i>Phacotus</i>	chl-ug			
<i>Chlorogonium</i>	chl-ug	2	184	2.02%	<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug	1	92	1.01%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pteromonas</i>	chl-ug			
<i>Coelastrum</i>	chl-c	8	736	8.08%	<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Coelosphaerium</i>	cyn-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Schroederia</i>	chl-u			
<i>Cyclotella</i>	bac-u				<i>Selenastrum</i>	chl-u			
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
<i>Desmidium</i>	chl-f				<i>Spirulina</i>	cyn-f			
<i>Diatoma</i>	cry-u				<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<i>Surirella</i>	bac-u			
<i>Fragilaria</i>	bac-u				<i>Synechococcus</i>	cyn-u			
<i>Frustulia</i>	bac-u				<i>Synechocystis</i>	cyn-c			
<i>Glenodinium</i>	pyr-ug				<i>Synedra</i>	bac-u			
<i>Golenkinia</i>	chl-c				<i>Synura</i>	cry-cg			
<i>Gomphonema</i>	bac-u	1	92	1.01%	<i>Tetraedasmus</i>	chl-c			
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gonyaulax</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gyrosigma</i>	bac-u				<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<i>Meridion</i>	bac-u								
<i>Merismopedia</i>	cyn-c								

check 100.00%

Aquatic Consulting & Testing, Inc.
1525 W. University Dr., Suite 106
Tempe, Arizona 85281

Count (cells/mL) 9.11E+03

ALGAE IDENTIFICATION

AC&T Lab No.	CH04681	Date Collected	08/08/25
Client I.D.	Lake 6	Collected By	AC&T

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta
Forms: u=unicell; c=colony; f=filament; g= flagellate

Genus	Div.-Form	Rel. Count	Total per mL	Comp.	Genus	Div.-Form	Rel. Count	Total per mL.	Comp
<i>Achnanthes</i>	bac-u				<i>Microcystis</i>	cyn-c			
<i>Anabaena</i>	cyn-f				<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u	1	920	0.75%
<i>Asterionella</i>	bac-c				<i>Nitzschia</i>	bac-u			
<i>Botryococcus</i>	chl-c				<i>Ocystis</i>	chl-c			
<i>Carteria</i>	chl-ug				<i>Oscillatoria</i>	cyn-f	120	110452	90.23%
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c	8	7363	6.02%
<i>Chlamydomonas</i>	chl-ug				<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u				<i>Phacotus</i>	chl-ug			
<i>Chlorogonium</i>	chl-ug				<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug				<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pteromonas</i>	chl-ug			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Coelosphaerium</i>	cyn-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Schroederia</i>	chl-u			
<i>Cyclotella</i>	bac-u				<i>Selenastrum</i>	chl-u			
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
<i>Desmidium</i>	chl-f				<i>Spirulina</i>	cyn-f	3	2761	2.26%
<i>Diatoma</i>	cry-u				<i>Staurastrum</i>	chl-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<i>Surirella</i>	bac-u			
<i>Fragilaria</i>	bac-u				<i>Synechococcus</i>	cyn-u			
<i>Frustulia</i>	bac-u				<i>Synechocystis</i>	cyn-c			
<i>Glenodinium</i>	pyr-ug				<i>Synedra</i>	bac-u	1	920	0.75%
<i>Golenkinia</i>	chl-c				<i>Synura</i>	cry-cg			
<i>Gomphonema</i>	bac-u				<i>Tetraedron</i>	chl-u			
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gymnodinium</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gyrosigma</i>	bac-u				<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<i>Meridion</i>	bac-u								
<i>Merismopedia</i>	cyn-c								

check 100.00%

Aquatic Consulting & Testing, Inc.
1525 W. University Dr., Suite 106
Tempe, Arizona 85281

Count (cells/mL) <u>1.22E+05</u>

ALGAE IDENTIFICATION

AC&T Lab No.	CH04682	Date Collected	08/08/25
Client I.D.	Lake 7	Collected By	AC&T

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta
Forms: u=unicell; c=colony; f=filament; g= flagellate

Genus	Div.-Form	Rel. Count	Total per mL	Comp.	Genus	Div.-Form	Rel. Count	Total per mL.	Comp
<i>Achnanthes</i>	bac-u				<i>Microcystis</i>	cyn-c			
Anabaena	cyn-f	20	18409	1.21%	<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u			
<i>Asterionella</i>	bac-c				<i>Nitzschia</i>	bac-u			
<i>Botryococcus</i>	chl-c				<i>Ocystis</i>	chl-c			
<i>Carteria</i>	chl-ug				Oscillatoria	cyn-f	1600	1472696	96.91%
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c			
<i>Chlamydomonas</i>	chl-ug				<i>Peridinium</i>	pyr-ug			
Chlorella	chl-u	6	5523	0.36%	<i>Phacotus</i>	chl-ug			
<i>Chlorogonium</i>	chl-ug				<i>Phacus</i>	chl-ug			
Chroococcus	cyn-c	6	5523	0.36%	<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug				<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pteromonas</i>	chl-ug			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Coelosphaerium</i>	cyn-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				Scenedesmus	chl-c	2	1841	0.12%
<i>Cryptomonas</i>	crp-ug				<i>Schroederia</i>	chl-u			
<i>Cyclotella</i>	bac-u				<i>Selenastrum</i>	chl-u			
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
<i>Desmidium</i>	chl-f				<i>Spirulina</i>	cyn-f			
<i>Diatoma</i>	cry-u				Staurastrum	chl-u	1	920	0.06%
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<i>Surirella</i>	bac-u			
<i>Fragilaria</i>	bac-u				<i>Synechococcus</i>	cyn-u			
<i>Frustulia</i>	bac-u				<i>Synechocystis</i>	cyn-c			
<i>Glenodinium</i>	pyr-ug				<i>Synedra</i>	bac-u			
<i>Golenkinia</i>	chl-c				<i>Synura</i>	cry-cg			
<i>Gomphonema</i>	bac-u				<i>Tetraedron</i>	chl-u			
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gymnodinium</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gyrosigma</i>	bac-u				<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<i>Meridion</i>	bac-u								
Merismopedia	cyn-c	16	14727	0.97%					

check 100.00%

Aquatic Consulting & Testing, Inc.
1525 W. University Dr., Suite 106
Tempe, Arizona 85281

Count (cells/mL) 1.52E+06

ALGAE IDENTIFICATION

AC&T Lab No.	CH04683	Date Collected	08/08/25
Client I.D.	Lake 8	Collected By	AC&T

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta
Forms: u=unicell; c=colony; f=filament; g= flagellate

Genus	Div.-Form	Rel. Count	Total per mL	Comp.	Genus	Div.-Form	Rel. Count	Total per mL	Comp
<i>Achnanthes</i>	bac-u				<i>Microcystis</i>	cyn-c			
<i>Anabaena</i>	cyn-f				<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u	2	184	1.80%
<i>Asterionella</i>	bac-c				<i>Nitzschia</i>	bac-u	1	92	0.90%
<i>Botryococcus</i>	chl-c				<i>Ocystis</i>	chl-c			
<i>Carteria</i>	chl-ug				<i>Oscillatoria</i>	cyn-f	12	1105	10.81%
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c			
<i>Chlamydomonas</i>	chl-ug	1	92	0.90%	<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u	3	276	2.70%	<i>Phacotus</i>	chl-ug			
<i>Chlorogonium</i>	chl-ug				<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug	3	276	2.70%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pteromonas</i>	chl-ug			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Coelosphaerium</i>	cyn-c	32	2945	28.83%	<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Schroederia</i>	chl-u			
<i>Cyclotella</i>	bac-u	9	828	8.11%	<i>Selenastrum</i>	chl-u			
<i>Cymbella</i>	bac-u				<i>Sphaerocystis</i>	chl-c	16	1473	14.41%
<i>Desmidium</i>	chl-f				<i>Spirulina</i>	cyn-f			
<i>Denticula</i>	cry-u	1	92	0.90%	<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<i>Surirella</i>	bac-u			
<i>Fragilaria</i>	bac-u				<i>Synechococcus</i>	cyn-u			
<i>Frustulia</i>	bac-u				<i>Synechocystis</i>	cyn-c			
<i>Glenodinium</i>	pyr-ug				<i>Synedra</i>	bac-u			
<i>Golenkinia</i>	chl-c				<i>Synura</i>	cry-cg			
<i>Gomphonema</i>	bac-u				<i>Tetraedesmus</i>	chl-c			
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gymnodinium</i>	pyr-ug	1	92	0.90%	<i>Trachelomonas</i>	eug-ug			
<i>Gyrosigma</i>	bac-u				<i>Vaucheria</i>	chl-f			
<i>Holopedium</i>	cyn-c	6	552	5.41%	<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<i>Meridion</i>	bac-u								
<i>Merismopedia</i>	cyn-c	24	2209	21.62%					

check 100.00%

Aquatic Consulting & Testing, Inc.
1525 W. University Dr., Suite 106
Tempe, Arizona 85281

Count (cells/mL) 1.02E+04

DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date: 08-03-25

By: JAA

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	<u>34.7</u> C	<u>7.8</u> mg/L	<u>8.4</u> SU	<u>0.80</u> SDz <u>1.5</u> NTU	<input checked="" 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>0</u> No/A <u>5</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
2	<u>34.7</u> C	<u>6.9</u> mg/L	<u>8.5</u> SU	<u>0.90</u> SDz <u>1.2</u> NTU	<input checked="" 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>12</u> No/A <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
3	<u>34.5</u> C	<u>7.4</u> mg/L	<u>8.3</u> SU	<u>0.15</u> SDz <u>1.8</u> NTU	<input checked="" 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>3</u> No/A <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
4	<u>33.6</u> C	<u>7.1</u> mg/L	<u>8.4</u> SU	<u>0.15</u> SDz <u>1.6</u> NTU	<input checked="" 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>1</u> No/A <u>5</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input type="checkbox"/> No service
5	<u>35.6</u> C	<u>7.9</u> mg/L	<u>8.3</u> SU	<u>0.80</u> SDz <u>1.5</u> NTU	<input checked="" 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>8</u> No/A <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
6	<u>35.0</u> C	<u>7.4</u> mg/L	<u>8.5</u> SU	<u>0.60</u> SDz <u>1.5</u> NTU	<input checked="" 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>24</u> No/A <u>4</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
7	<u>37.2</u> C	<u>8.8</u> mg/L	<u>8.9</u> SU	<u>0.50</u> SDz <u>1.5</u> NTU	<input checked="" 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 <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
8	<u>31.3</u> C	<u>8.4</u> mg/L	<u>8.1</u> SU	<u>0.10</u> SDz <u>1.5</u> NTU	<input checked="" 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>2</u> No/A <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerators <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service

Notes and recommendations for treatment/operation:

DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date: 08.20.25

By: AAA

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	<u>32.5C</u>	<u>1.5</u> mg/L	<u>8.5</u> SU	<u>0.80</u> SDZ <u>6.7</u> NTU	<input checked="" 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>3</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
2	<u>32.2C</u>	<u>1.1</u> mg/L	<u>8.5</u> SU	<u>0.85</u> SDZ <u>8.2</u> NTU	<input checked="" 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>1</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
3	<u>32.4C</u>	<u>1.6</u> mg/L	<u>8.6</u> SU	<u>0.80</u> SDZ <u>6.5</u> NTU	<input checked="" 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>0</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
4	<u>31.7C</u>	<u>1.3</u> mg/L	<u>8.6</u> SU	<u>0.15</u> SDZ <u>14.4</u> NTU	<input checked="" 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>3</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
5	<u>31.5C</u>	<u>8.2</u> mg/L	<u>8.5</u> SU	<u>0.65</u> SDZ <u>24.0</u> NTU	<input checked="" 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>2</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	<input checked="" type="checkbox"/> muddes - shoreline
6	<u>32.9C</u>	<u>8.0</u> mg/L	<u>8.6</u> SU	<u>0.35</u> SDZ <u>280</u> NTU	<input checked="" 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>5</u> No/A <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
7	<u>31.6C</u>	<u>8.6</u> mg/L	<u>9.1</u> SU	<u>0.35</u> SDZ <u>119</u> NTU	<input checked="" 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 <u><1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
8	<u>31.0C</u>	<u>8.7</u> mg/L	<u>8.4</u> SU	<u>0.85</u> SDZ <u>58</u> NTU	<input checked="" 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>4</u> No/A <u>2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerators <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service

Notes and recommendations for treatment/operation: low water level
#6 filling