AQUATIC CONSULTING & TESTING, INC.



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Lic. No. AZ0003

06 April 2024

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

March 2024 Lake Report

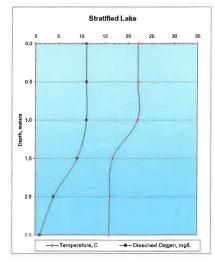
The following report presents the results of field inspections on the Dobson Ranch lakes for the month of March 2024. This report summarizes data collected under the updated program started in 2019 and expanded in 2020 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Comprehensive testing on Lakes 1-4 was completed during the month and laboratory reports are provided. Comparison to the last comprehensive test (September 2023) are provided for those lakes. Field sheets for the inspection weeks are also included. Additional data requested for Lake 8 are provided at the end of the narrative report.

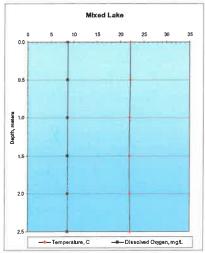
A number of tools have been used to evaluate and quantify the water quality of each lake. These include: Arizona Department of Environmental Quality Numeric Targets for Urban Lakes, the Carlson Trophic Status Index (TSI), and a Lake Report Card based on that used by Arizona Game and Fish Department that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

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

Temperature and Oxygen

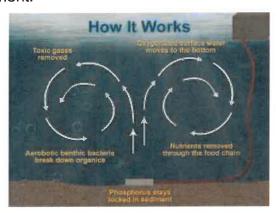
Density differences in water caused by temperature produce a physical barrier to the exchange of gases and between water nutrients lavers. Typically warmer (less dense) water rests above deeper, cooler (more dense) water. Deep waters can become anoxic (oxygen poor) and cause formation and release of





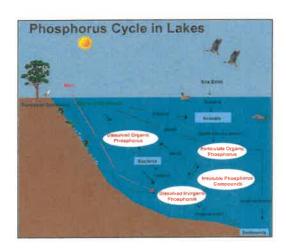
toxic gases as hydrogen sulfide and ammonia, and the release of plant nutrients as phosphates. A vertically mixed lake rarely suffers from such issues.

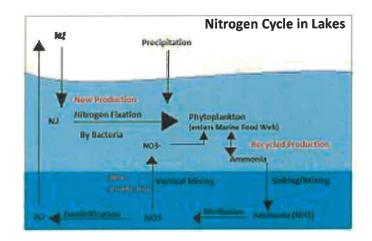
Aeration systems are designed to circulate and distribute oxygen vertically in the water column. Circulation is necessary for two primary purposes: (1) to deliver oxygen to the deeper waters for fish survival and (2) to maintain an aerobic environment throughout the lake to prevent the release and distribution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





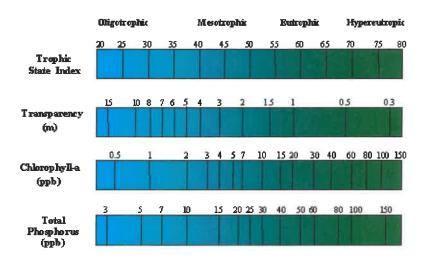
Algae and Aquatic Weeds

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.



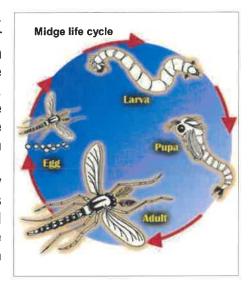
The Trophic Status report addendum provides each of these values for the sampling sites. For southern Arizona, a TSI of less than 60 is the target for reasonable aesthetic quality. Fisheries often flourish when TSI values are in the 55 to 65 range. Severe aesthetic and recreational problems occur when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

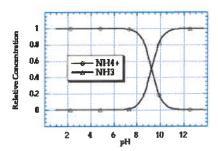
March 2024 Report Narrative Summary

The following pages provide a summary of the monthly survey results. Comprehensive analyses were conducted on Lakes 1-4 on 07 March 2024. 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 07 and 20 March 2024.

Lakes 1-4

Lake 1

Lake 1 exhibited no thermal stratification and no significant loss of oxygen in the deep waters (see attached profiles). The measured surface dissolved oxygen concentrations (9.1 and 9.4 mg/L) were above the target 6.0 mg/L concentration desired to protect the fishery and no fish stress was observed. Water pH was moderate at 8.1-8.2 SU and indicated a low to moderate suspended algae density. Low pH is advantageous because it prevents conversion of ammonium ions (NH_4^+) to toxic (to aquatic animals) ammonia (NH_3) gas (see figure below). Transparency (Secchi disk depth) increased to 2.44 m (7.79 ft) and turbidity correspondingly decreased to 4.0-4.1 NTU.



Alkalinity (162 mg/L as CaCO₃) and hardness (232 mg/L as CaCO₃) changed modestly. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake decreased to 468 mg/L. The result is likely from dilution by winter precipitation.

Waterfowl density was about two (2) per acre which is considered excellent (Arizona Game & Fish Department rating system). No cormorants were observed.

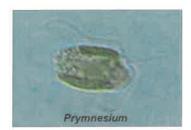
Midge fly density remained low (40/m²) and should produce no issues to lakeside residents or visitors.



Bio-available nitrogen and total nitrogen were fairly stable at 0.14 mg/L and 1.29 mg/L, respectively. Phosphorus concentration decreased significantly to 0.021 mg/L. Ammonia was minimal at 0.05 mg/L. At ambient temperature and pH, no toxicity issues would result. Chlorophyll concentration, indicative of algal biomass, decreased and was quite low at 0.42 ug/L. Algae density was correspondingly low at 1.47 x 10^2 cells/mL.

The dominant alga was *Chroomonas* (Cryptophyte unicell). It is rarely problematic. The golden alga, *Prymnesium parvum*, was not observed. *P. parvum* can produce a toxin that destroys exposed cells in the gill tissue of fish, causing asphyxiation and death. No submerged weeds were observed.





The mean TSI value decreased to 42 (range 22-48), with the lake moving into the mesotrophic category. Decreased phosphorus, improved transparency, and decreased chlorophyll were all responsible factors for the reduced TSI value. The lake became more aesthetically pleasing, but could develop anoxia in the deep waters during the summer. It should be, otherwise, supportive of the fishery.

The *E. coli* concentration was 2 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 single sample maxima are 410 and 575 for FBC and PBC recreation (ARS, Dec 2022).

The Lake Report Card value for March 2024 was 53; up three units from September 2023, and moving the lake into the "excellent" category.

Lake 2

Lake 2 was vertically mixed. No substantial loss of oxygen in the deep waters occurred (see attached profiles). The surface dissolved oxygen concentrations (8.5-9.0 mg/L) were above the target 6.0 mg/L concentration desired to protect the fishery and no fish stress was observed. Water pH was 8.1-8.3 SU and indicated low suspended (planktonic) algae density. Low pH is advantageous because it prevents conversion of ammonium ions (NH $_4$ [†]) to toxic (to aquatic animals) ammonia (NH $_3$) gas. Transparency (Secchi disk depth) improved to 1.42 m (4.6 ft) and turbidity ranged from 5.0 to 5.1 NTU.

Alkalinity (154 mg/L as CaCO₃) and hardness (201 mg/L as CaCO₃) were typical and remained elevated, as would be expected from most waters in central Arizona. The total dissolved solids (mineral) concentration decreased slightly to 372 mg/L.

Midge fly density decreased and remained relatively low (40/m²) and should produce no issues to lakeside residents or visitors. Waterfowl density was 2-3 birds per acre which is considered in the "good" range (Arizona Game & Fish Department rating system). No cormorants were noted.

Bio-available nitrogen concentration was low at 0.13 mg/L. Total nitrogen was fairly stable at 1.27 mg/L. Phosphorus concentration increased to 0.020 mg/L; still a very

desirable and low concentration. Ammonia concentration was 0.06 mg/L. At ambient temperature and pH, no toxicity issues would result. The total cell density for the lake was 1.62 x 10³ cell/mL; a relatively low number. The chlorophyll concentration (biomass indicator) was correspondingly low, measured at 0.21 ug/L. The dominant alga was *Chroomonas* (Cryptophyte unicell). It is rarely problematic. The golden alga, *Prymnesium parvum*, was not observed.

The mean TSI value decreased substantially to 39 and placed the lake in the oligotrophic category. Such lakes are more desirable for an urban lake in terms of aesthetics, but are not highly supportive of a fishery. They sometimes experience low oxygen concentrations in the deep waters during the summer.

The *E. coli* concentration was <1 MPN/100 mL and met the single-sample full body contact (swimming) and partial body contact (fishing and boating) recreation standards.

The Lake Report Card value for March 2024 was 50, up one unit compared to September 2023 data. The lake moved into the "excellent" category.

Lake 3

Lake 3 exhibited no thermal stratification (vertically mixed) and had minimal loss of oxygen in the deep waters (see attached profiles). The surface dissolved oxygen concentrations (8.1-9.1 mg/L) met the minimum target of 6.0 mg/L desired to protect the fishery. No fish stress was observed. Water pH ranged from 8.1 to 8.2 SU and reflected stable conditions. Low pH is more advantageous because it prevents conversion of ammonium ions (NH_4^+) to toxic (to aquatic animals) ammonia (NH_3) gas. Transparency (Secchi disk depth) increased to 1.71 m (5.5 ft). Turbidity was moderate (3.6-4.4 NTU) during the month.

Waterfowl density was approximately five to seven (5-7) birds per acre which is considered poor (Arizona Game & Fish Department rating system). No cormorants were observed.

Midge fly density was low (40/m²) and should produce no issues to lakeside residents or visitors.

Alkalinity (166 mg/L as CaCO₃) and hardness (201 mg/L as CaCO₃) were fairly stable and remained slightly elevated as typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake decreased to 412 mg/L.

Bio-available nitrogen concentration was slightly reduced at 0.13 mg/L, and total nitrogen decreased to 1.18 mg/L. Phosphorus concentration remained quite low at 0.020 mg/L. The ammonia concentration was 0.05 mg/L and would not create any toxicity issues at ambient temperature and pH.

Chlorophyll concentration, indicative of algal biomass, was low and very stable at 1.07 μ ug/L. Algae density correspondingly was low at 6.07 x 10^2 cells/mL. The dominant algae was *Chroomonas*. No significant issues with algae occurred. Golden algae were absent.

The mean TSI value (44, with a range of 31-52) maintained the lake in the mesotrophic category.

The *E. coli* concentration was 12 MPN/100 mL and met partial body contact recreation limits.

The Lake Report Card value for March 2024 remained at 50 and the lake remained in the "excellent" category.

Lake 4

Lake 4 was thermally mixed and there was minimal loss of oxygen in the deep water (see attached profiles). The dissolved oxygen concentrations were improved at 8.0-8.1 mg/L. Concentrations were above the target of 6.0 mg/L and fish activity appeared normal. Water pH ranged from 8.1-8.2 SU and indicated a low to moderate algae density and minimal change in water quality. Water transparency decreased to 0.90 m (2.9 ft). Turbidity ranged from 5.4 to 11.2 NTU.

Waterfowl density was about three to four (3-4) per acre which is considered good by the Arizona Game & Fish Department rating system. No cormorants were noted. Midge fly density was quite low (<40/m²) and should produce no issues to lakeside residents or visitors.

Bio-available and total nitrogen concentrations increased slightly to 0.16 and 1.40 mg/L, respectively. Phosphorus concentration increased to 0.031 mg/L; all reasonable values. The ammonia concentration remained low (0.08 mg/L). At ambient pH and temperature, acute or chronic ammonia toxicity to fish would not occur.

As with the other lakes, the dominant alga was *Chroomonas*. The chlorophyll-a concentration (biomass indicator) remained very low at 0.80 ug/L. The potentially toxic golden alga (*Prymnesium parvum*) was not present during the month.

The mean TSI value (48) increased on unit (range 28-62), maintaining the lake in the mesotrophic category. The value indicates the lake should be desirable in terms of aesthetics, but possibly less supportive of a robust fishery.

The *E. coli* concentration was 1 MPN/100 mL. The measurements met the bacteria maximum for partial body contact recreation (fishing and boating).

The Lake Report Card value for March 2024 remained at 50 and the lake remained in the "excellent" category.

Lakes 5-8

Lake 5

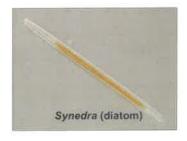
The Lake 5 temperature ranged from 17.1 to 17.7 C (63-64 F). Water pH was 8.1 SU indicating low to moderate algae density. Dissolved oxygen (7.1-8.3 mg/L) was above the target concentration for the fishery, Fish activity appeared normal. Transparency was about one meter and turbidity ranged from 6.6 to 7.3 NTU.

Waterfowl mean density was about five (5) per acre which is considered good to fair (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 growths or submerged weeds were observed. Diatoms (Bacillariophyta) dominated the phytoplankton. Cell density was relatively low. No golden algae (*Prymnesium parvum* or related species) were detected.





Lake 6

The water temperature of Lake 6 ranged from was 17.2 to 17.5 C (63-64 F). Water pH was 8.2-8.4 SU, indicating low to moderate algae density. Dissolved oxygen (9.6 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was just under one meter and turbidity ranged from 10.3 to 15.1 NTU.

About seven to ten (7-10) waterfowl per acre were observed and the density is considered fair to poor 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 remained *Cyclotella*, a centric diatom. The alga is rarely problematic. No golden algae (*Prymnesium parvum* or related species) were detected.



Lake 7

Lake temperature range was 17.9 to 18.4 C (64-65 F). Water pH was 8.4-8.5 SU. Dissolved oxygen concentration ranged from 8.7 to 10.2 mg/L and remained satisfactory for the fishery. Fish activity appeared normal. Transparency was stable at just over one meter. Turbidity ranged from 1.5-1.8 NTU. The fountain was operating during the reporting period.

Waterfowl density was about one (1) duck per acre; an "excellent" rating. Minimal cormorants were observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

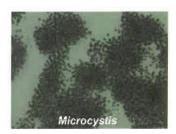
No abnormal algae growth or submerged weeds were observed. Green flagellates as *Chlamydomonas*, were the dominant algae. The total cell density for the algae community was moderate. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 8

The temperature of Lake 8 ranged from 17.5-17.6 C (63-64 F). Water pH was moderate at 8.2 to 8.5 SU and indicated a low to moderate algae density. Dissolved oxygen (6.8-8.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was slightly reduced, as turbidity increased to 3.8 to 5.0 NTU.

Waterfowl density was about five to seven (5-7) per acre which is considered poor. 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. *Microcystis* was dominant, but not excessive. *Microcystis* can create down-wind surface scum. However, the total phytoplankton density was low to moderate. No golden algae (*Prymnesium parvum* or related species) were detected.



Chlamydomo

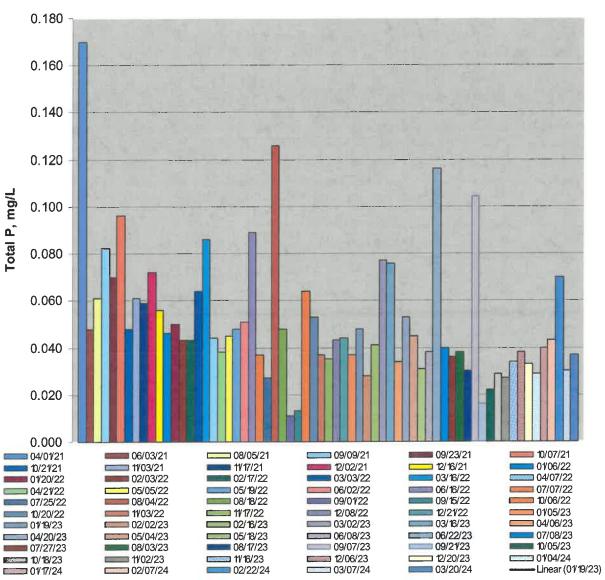
Special Testing

E. coli bacteria and total phosphorus were measured in Lake 8 on two dates during the month. Data are presented below.

Date	E. coli, MPN/100 mL)	Phosphorus, mg/L
03-07-24	980	0.030
03-20-24	68	0.037

The phosphorus concentrations in Lake 8 during the recent study period were moderate and fairly stable.





Next Month:

Lakes 5-8 are scheduled for comprehensive monitoring next month. All lakes will be visually inspected and field data collected two times during the month. Additional monitoring of Lake 8 phosphorus and *E. coli* will continue.

Frederick Amalfi #91-01M

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Respectfully:

Aquatic Consulting & Testing, Inc.

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

DOBSON RANCH REPORT CARD

DATE OF EVALUATION:		Mar-24	CONDITION	0000	SCORE	53	20	20	48
PREVIOUS EVALUATION:	Last complete	Sep-23	CONDITION	GOOD	SCORE	47	49	20	50
		4 pts	3 pts	2 pts	1 pt	SCORE	SCORE	SCORE	SCORE
CONDITION	RATIONALE	EXCELLENT	GOOD	FAIR	POOR	Lake 1	Lake 2	Lake 3	Lake 4
Transparency - SDz (m) avg.	aesthetics	1.5-2.0	1.0-1.4	0.5-0.9	<0.5	4	3	4	2
Dissolved oxygen (mg/L) @1m	aquatic life, sediment nutrient release, odors	>7.0	5.6-6.9	4.0-5.5	<4.0	4	4	4	4
Nitrogen, total (mg/L)	algae and macrophyte growth	<0.5	0.5-1.0	1.0-2.0	>2.0	2	2	2	2
Phosphorus, total (mg/L)	algae and macrophyte growth	<0.03	0.03-0.05	0.06-0.10	>0.10	4	4	4	8
Turbidity (NTU) avg.	aesthetics, State std	<5	5-10	11-20	>20	4	3	4	en
Chlorophyll-a (ug/L) avg.	aesthetics, oxygen balance	<10	11-20	21-30	>30	4	4	4	4
Algae density (no./mL)	aesthetics	<5 x 10 ⁴	5x10 ⁴ - 9x10 ⁴	1 x 10 ⁵ -5x 10 ⁵	>5 x 10 ⁵	4	4	4	4
Midge larvae (# per sq m)	aesthetics	<200	200-400	200-800	>800	4	4	4	4
Algae form (dominant)	aesthetics, treatability	greens; no floating mats	diatoms; no floating mats	blue-greens; no floating mats	blue-greens; floating mats common	4	4	4	4
pH (SU) avg.	swimming, fishery, ammonia toxicity	6.5-8.0	8.1-8.5	8.6-9.0	>9.0	3	6	3	8
Carlson Trophic Status	eutrophication	<50	20-60	61-70	>70	4	4	4	4
Fishery	recreation, aesthetics	no fish piping; no fish kills	some fish piping, gulping; no fish kills	fish piping before dawn; occasional fish	fish piping common; fish kills common	4	4	4	4
Waterfowl (per acre mean)	Aesthetics, public health	\$	3-4	5-6	9<	4	3	1	3
Shoreline/banks	Minimal Filamentous Algae	no evidence of salt crusts or algal scums	some white deposits and scums	numerous patches of salt deposits and aloae scums	most of lake shore covered with crusts or scums	4	4	4	4

SCORING KEY:	Excellent	Good	Fair	Hony
	50-56	41-49	30-40	<30

Definitions: RatingsExcellent: Lake aesthetic and operational conditions above level of expectation.

Good: Lake aesthetic and operational conditions at level of expectation.

Fair: Lake aesthetic and operational conditions slightly below level of expectation.

Poor: Lake aesthetic and operational conditions considerably below level of expectation.

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.

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

V/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.

ransparency (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: 07-Mar-24

	LAKE	LAKE	LAKE	LAKE		
PARAMETER	1	2	3	4		
7						
Secchi Disk Depth (m)	2.44	1.42	1.70	0.89		
0						
Phosphorus, total (ug/L)	21	20	20	31		
01-1	0.4	0.0		0.0		
Chlorophyll-a (ug/L)	0.4	0.2	1.1	0.8		
	LAKE	LAKE	LAKE	LAKE		
TSI VALUES	1	2	3	4		
Secchi Disk Depth	47	55	52	62		
Dheanhaine total	40	47	47	E4		
Phosphorus, total	48	47	47	54		
Chlorophyll-a	22	15	31	28		
					average	
AVERAGE	39	39	44	48	42	

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.

Aquatic Consulting & Testing, Inc.

SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents

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LABORATORY REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 03/07/24 Date Reported: 04/03/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-4 Monitoring

RESULTS

Sample Type: Surface Water Client ID: Lake 1 Sample Time: 03/07/24 08:05 ACT Lab No.: CG01604 **Analysis Date** Unit Start End Method No. Result Parameter cells/mL SM 10200 F See Attached 03/22/24 03/22/24 Algae Count 03/22/24 03/22/24 See Attached Algae Identification Chl/Pheo Ratio 04/01/24 04/01/24 SM10200 H 1.40 0.42 ug/L SM10200 H Chlorophyll a 04/01/24 04/01/24 Pres/Abs 03/07/24 03/07/24 P/C Microscopy Absent Golden Algae <40 #/sq. meter 03/07/24 03/07/24 SM10500 C Midge count ug/L 04/01/24 04/01/24 SM10200 H 0.31 Pheophytin a SM4500 O G 9.1 mg/L as O2 03/07/24 03/07/24 Oxygen, Dissolved Field SU SM4500H+ B 8.2 pH, Field 03/07/24 03/07/24 2.44 meters **NALMS** Secchi Disk Depth 03/07/24 03/07/24 18.0 C SM2550 B 03/07/24 03/07/24 Temperature, Field mg/L as CaCO3 03/13/24 03/13/24 SM 2320 B 162. Alkalinity, Total 0.05 mg/L as N SM4500NH3 D 03/21/24 03/21/24 Ammonia - N mg/L as N SM4500NO3 E 0.09 03/17/24 03/17/24 Nitrate + Nitrite - N mg/L as P 03/25/24 03/27/24 365.3 0.021 Phosphorus, Total 232. mg/L as CaCO3 SM2340C 03/13/24 03/13/24 **Total Hardness** ma/L as N 03/21/24 03/21/24 SMNorg C,NH3 C/D 1.2 Total Kjeldahl Nitrogen 2 MPN/100 mL 03/07/24 03/08/24 SM 9223 B E. coli, Colilert mg/L SM2540 C 468 **Total Dissolved Solids** 03/12/24 03/14/24 180.1 4.1 NTU 03/07/24 03/07/24 **Turbidity**

Client ID: Lake 2 Sample Type: Surface Water ACT Lab No.: CG01605 Sample Time: 03/07/24 08:25

7101 202 71011 0 0 0 1 0 0 0					
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	Unit
Algae Count	03/22/24	03/22/24	SM 10200 F	See Attached	cells/mL
Algae Identification	03/22/24	03/22/24		See Attached	
Chl/Pheo Ratio	04/01/24	04/01/24	SM10200 H	1.14	
Chlorophyll a	04/01/24	04/01/24	SM10200 H	0.21	ug/L
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Midge count	03/07/24	03/07/24	SM10500 C	40	#/sq. meter
Pheophytin a	04/01/24	04/01/24	SM10200 H	0.81	ug/L
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	8.5	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.3	SU
Secchi Disk Depth	03/07/24	03/07/24	NALMS	1.42	meters
Temperature, Field	03/07/24	03/07/24	SM2550 B	17.9	С
Alkalinity, Total	03/13/24	03/13/24	SM 2320 B	154.	mg/L as CaCO3
Ammonia - N	03/21/24	03/21/24	SM4500NH3 D	0.06	mg/L as N
Nitrate + Nitrite - N	03/17/24	03/17/24	SM4500NO3 E	0.07	mg/L as N
Phosphorus, Total	03/25/24	03/27/24	365.3	0.020	mg/L as P
Total Hardness	03/13/24	03/13/24	SM2340C	201.	mg/L as CaCO3
Total Kjeldahl Nitrogen	03/21/24	03/21/24	SMNorg C,NH3 C/D	1.2	mg/L as N
E. coli, Colilert	03/07/24	03/08/24	SM 9223 B	<1	MPN/100 mL
Total Dissolved Solids	03/12/24	03/19/24	SM2540 C	372	mg/L
Turbidity	03/07/24	03/07/24	180.1	5.1	NTU

Client ID: Lake 3 Sample Type: Surface Water ACT Lab No.: CG01606 Sample Time: 03/07/24 08:50

Analysis Date							
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>		
Algae Count	03/22/24	03/22/24	SM 10200 F	See Attached	cells/mL		
Algae Identification	03/22/24	03/22/24		See Attached			
Chl/Pheo Ratio	04/01/24	04/01/24	SM10200 H	1.33			
Chlorophyll a	04/01/24	04/01/24	SM10200 H	1.07	ug/L		
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs		
Midge count	03/07/24	03/07/24	SM10500 C	40	#/sq. meter		
Pheophytin a	04/01/24	04/01/24	SM10200 H	1.17	ug/L		
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	8.1	mg/L as O2		
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.2	SU		
Secchi Disk Depth	03/07/24	03/07/24	NALMS	1.70	meters		
Temperature, Field	03/07/24	03/07/24	SM2550 B	18.0	С		
Alkalinity, Total	03/13/24	03/13/24	SM 2320 B	166.	mg/L as CaCO3		
Ammonia - N	03/21/24	03/21/24	SM4500NH3 D	0.05	mg/L as N		
Nitrate + Nitrite - N	03/17/24	03/17/24	SM4500NO3 E	0.08	mg/L as N		
Phosphorus, Total	03/25/24	03/27/24	365.3	0.020	mg/L as P		
Total Hardness	03/13/24	03/13/24	SM2340C	201.	mg/L as CaCO3		
Total Kjeldahl Nitrogen	03/21/24	03/21/24	SMNorg C,NH3 C/D	1.1	mg/L as N		
E. coli, Colilert	03/07/24	03/08/24	SM 9223 B	12	MPN/100 mL		
Total Dissolved Solids	03/12/24	03/14/24	SM2540 C	412	mg/L		
Turbidity	03/07/24	03/07/24	180.1	3.6	NTU		

Client ID: Lake 4 ACT Lab No.: CG01607			Sample Type: Surfact Sample Time: 03/07/		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Algae Count	03/22/24	03/22/24	SM 10200 F	See Attached	cells/mL
Algae Identification	03/22/24	03/22/24		See Attached	
Chl/Pheo Ratio	04/01/24	04/01/24	SM10200 H	1.40	
Chlorophyll a	04/01/24	04/01/24	SM10200 H	0.80	ug/L
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Midge count	03/07/24	03/07/24	SM10500 C	<40	#/sq. meter
Pheophytin a	04/01/24	04/01/24	SM10200 H	0.60	ug/L
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	8.1	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.2	SU
Secchi Disk Depth	03/07/24	03/07/24	NALMS	0.89	meters
Temperature, Field	03/07/24	03/07/24	SM2550 B	17.8	С
Alkalinity, Total	03/13/24	03/13/24	SM 2320 B	150.	mg/L as CaCO3
Ammonia - N	03/21/24	03/21/24	SM4500NH3 D	0.06	mg/L as N
Nitrate + Nitrite - N	03/17/24	03/17/24	SM4500NO3 E	0.10	mg/L as N
Phosphorus, Total	03/25/24	03/27/24	365.3	0.031	mg/L as P
Total Hardness	03/13/24	03/13/24	SM2340C	189.	mg/L as CaCO3
Total Kjeldahl Nitrogen	03/21/24	03/21/24	SMNorg C,NH3 C/D	1.3	mg/L as N
E. coli, Colilert	03/07/24	03/08/24	SM 9223 B	1	MPN/100 mL
Total Dissolved Solids	03/12/24	03/14/24	SM2540 C	476	mg/L
Turbidity	03/07/24	03/07/24	180.1	5.4	NTU
Client ID: Lake 5 ACT Lab No.: CG01608			Sample Type: Surfac Sample Time: 03/07/2		
	Analys		BA 41 - 1 A1	5 "	1124
Parameter	Start	_End_	Method No.	Result	<u>Unit</u>
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	7.1	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.1	SU
Temperature, Field	03/07/24	03/07/24	SM2550 B	17.1	С
Turbidity	03/07/24	03/07/24	180.1	6.6	NTU

Client ID: Lake 6 ACT Lab No.: CG01609			Sample Type: Surfact Sample Time: 03/07/2		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	9.6	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.4	SU
Temperature, Field	03/07/24	03/07/24	SM2550 B	17.2	С
Turbidity	03/07/24	03/07/24	180.1	15.	NTU
Client ID: Lake 7 ACT Lab No.: CG01610			Sample Type: Surfac Sample Time: 03/07/2		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	8.7	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.4	SU
Temperature, Field	03/07/24	03/07/24	SM2550 B	18.4	С
Turbidity	03/07/24	03/07/24	180.1	1.5	NTU
Client ID: Lake 8 ACT Lab No.: CG01611			Sample Type: Surface Sample Time: 03/07/2		
	Analys	is Date			
Parameter	Start	_End_	Method No.	Result	Unit
Golden Algae	03/07/24	03/07/24	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/07/24	03/07/24	SM4500 O G	8.2	mg/L as O2
pH, Field	03/07/24	03/07/24	SM4500H+ B	8.5	SU
Temperature, Field	03/07/24	03/07/24	SM2550 B	17.6	С
Phosphorus, Total	03/25/24	03/27/24	365.3	0.030	mg/L as P
E. coli, Colilert	03/07/24	03/08/24	SM 9223 B	980	MPN/100 mL
Turbidity	03/07/24	03/07/24	180.1	3.8	NTU

Reviewed by:_

Frederick A. Amalfi, Ph.D. Laboratory Director

AC&T Lab No.	CG-01604	Date Collected	03/07/24	
Client I.D.	Lake 1	Collected By	AC&T	
			17	

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	Form	Count							
Antonoutlena		Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u			
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug				Peridinium	pyr-ug			
Chlorella	chl-u				Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chodatella	chi-u				Pinnularia	bac-u			
Chroomonas	crp-ug	6	110	75.00%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium .	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u			
	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u	1	18	12.50%	Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
	eug-ug				Surirella	bac-u			
Fragilaria	bac-u			-	Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
	pyr-ug				Synedra	bac-u	1	18	12.50%
Golenkinia	chl-c				Synura	сгу-сд			
Gomphonema	bac-u				Tetraedron	chl-u			
	chl-cg				Thoracomonas	chl-u			
	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u					2.17			
Meridion	bac-u								
Merismopedia	cyn-c								

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Count (cells/mL)	1,47E+02

AC&T Lab No.	CG-01605	Date Collected	03/07/24	
Client I.D.	Lake 2	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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u	1	18	1.14%	Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	1	18	1.14%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	2	37	2.27%	Peridinium	pyr-ug			
Chlorella	chl-u	3	55	3.41%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c	2	37	2.27%	Pinnularia	bac-u			
Chroomonas	crp-ug	51	939	57.95%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	2	37	2.27%
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u	1	18	1.14%	Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u	1	18	1.14%
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	cyn-c	24	442	27.27%					

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Count (cells/mL)	1.62E+03	

AC&T Lab No.	CG-01606	Date Collected	03/07/24	
Client I.D.	Lake 3	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

nap Haptophyta, pyt	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count		Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u		-		Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u			
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	2	37	6.06%	Peridinium	pyr-ug			
Chlorella	chl-u	11	202	33.33%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chodatella	chl-u				Pinnularia	bac-u			
Chroomonas	crp-ug	17	313	51.52%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u	1	18	3.03%
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u	1	18	3.03%
Golenkinia	chl-c	1	18	3.03%	Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u				-,0				
Meridion	bac-u								
Merismopedia	cyn-c								

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AC&T Lab No.	CG-01607	Date Collected	03/07/24
Client I.D.	Lake 4	Collected By	AC&T
Oliche I.B.		_	

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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u			
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	1	18	10.00%	Peridinium	pyr-ug			
Chlorella	chl-u	2	37	20.00%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chodatella	chl-u	1	18	10.00%	Pinnularia	bac-u			
Chroomonas	crp-ug	5	92		Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u	1	18	10.00%
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u			
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	1					-			
wensmopedia	cyn-c								

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

Count (cells/mL)	1.84E+02

Laboratory Sample Identification 1608 1600 1609 1605 010 607 AC& I 4091097 Page 1 of 1 Lake 1-4 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Cther: rndoje T 4 Sample Containers # / Preservation: Client Project Info: H2SO4 (Sulfuric) HHO3 (NIPIC) Na2S2O3 (Sterile) --Print Name: Print Name: 西 が 3 Signature: Signature: ~ 7 7 ~ Date: PH, Temp, O2 × × × × × × × Field Measurements: × × × × × × × × Golden algae × × × × × × × #+ QI - agelA × × × × (330 22 × × Chain of Custody #СИІ/БР60 × × 1. RELINQUISHED BY: × × × × × 2. RECEIVED BY: E. Coli Time: × × × TDS × × × Alkalinity × × 421101E0 Hardness × × × × × × (SHN) sinommA × TKN-Elec × × × Print Name: M Signature: NM × × × × **NO3+NO2** Print Name × Signature: × × × × T-q BLUE 3€ 5.5 9 SW SW SW SW SW SW SW SW A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. (ES) Non: YES WET 1525 W. University Drive, Suite 106 Attn: Fran Pawlak, Community Manager AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 9:30 54:01 100 8:05 0/1 Time: Total # Containers: Sample Receipt Temperature: Samples On Ice: Received Intact: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** 37.24 Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Sample Location ID: Lake 5 Lake 6 Lake 8 Lake 3 Lake 2 Lake 4 Lake 7 Lake 1 **#** ш



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

GOLDEN ALGAE REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 03/13/24 Date Reported: 03/20/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

			ESULIS					
Client ID: Lake 1 ACT Lab No.: CG01784	Sample Type: Surface Water Sample Time: 03/13/24 06:30							
	Analysi	s Date						
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Client ID: Lake 2 ACT Lab No.: CG01785					ne: Surface Water ne: 03/13/24 06:35			
	Analysi	s Date						
Parameter	<u>Start</u>	End	Method No.	MRL	Result_	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Client ID: Lake 3 ACT Lab No.: CG01786					e: Surface Water e: 03/13/24 06:40			
	Analysi	s Date						
Parameter	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Client ID: Lake 4 ACT Lab No.: CG01787					e: Surface Water e: 03/13/24 06:45			
	Analysi	s Date						
<u>Parameter</u>	<u>Start</u>	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	

Client ID: Lake 5 ACT Lab No.: CG01788				nple Type: Surface Water nple Time: 03/13/24 06:50		
	Analysi	s Date				
Parameter	Start	End	Method No.	MRL Result	_Unit_	<u>Analyst</u>
		03/13/2/	P/C Microscopy	1 Absent	Pres/Abs	FAA
Golden Algae	03/13/24	03/13/24	170 Microscopy	7 DOOR	1 100,7 120	.,,,,
Client ID: Lake 6				nple Type: Surface Water		
ACT Lab No.: CG01789			San	nple Time: 03/13/24 06:55		
	Analysi	s Date				
Parameter	Start	End	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 7 ACT Lab No.: CG01790				nple Type: Surface Water nple Time: 03/13/24 07:00		
	Analysi	s Date				
<u>Parameter</u>	Start	<u>End</u>	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 8				nple Type: Surface Water		
ACT Lab No.: CG01791		_	San	npie Time: 03/13/24 07:03		
	Analysi		Madhad Na	MDI Decult	l lmit	Analyst
Parameter	<u>Start</u>	<u>End</u>	Method No.	MRL Result	_Unit_	<u>Analyst</u>
Golden Algae	03/13/24	03/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
			submitted sample.	submitted sample.		

Reviewed by:___

*Prymnesium parvum or toxin producing related species.

<u>Present 2</u> = Golden algae* were detected and commonly observed in the submitted sample. <u>Present 3</u> = Golden algae* were detected and were the dominant algae in the submitted sample.

> Frederick A. Amalfi, Ph.D Laboratory Director

Laboratory Sample Identification AC&T Page1 of 1 188 1790 1786 787 48C1090 1785 789 Lake 1-8 Monthly Monitoring, 179 Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: ПещО sjoßny Sample Containers # / Preservation: Client Project Info: HSSO4 (Sulfuric) HAO3 (NIPIC) Nazszos (Sterile) Print Name: Print Name: Signature: Signature: 300 Date: SO, qmaT, Hq Field Measurements: լութ Golden algae × × × × × × × × 1300 # + QI - ə6elA #СЫ/Рћео **Chain of Custody** 1. MELINQUISHED BY E. Coli 2. RECEIVED BY: 42181180 Ammonia (NH3) TKN-Elec Print Name: M Signature: MT ZON+EON Print Name T-q Signatur BLUE 2 (E) 7.17 Matrix: SW SW SW SW SW SW SW MS A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. WET (3) Non: YES Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 000 20 635 645 650 655 Total # Containers: 630 Time: 2 Samples On Ice: Sample Receipt Temperature: Received Intact: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** 7/132Y # Bottles Preserved: Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Sample Location ID: Lake 2 Lake 3 Lake 5 Lake 6 Lake 8 Lake 4 Lake 7 Lake 1 Notes: 8



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

GOLDEN ALGAE REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 03/20/24 Date Reported: 04/03/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

Client ID: Lake 1 Sample Type: Surface Water
ACT Lab No.: CG01951 Sample Time: 03/20/24 06:30

	Analysi	s Date					
Parameter_	Start	End	Method No.	MRL	Result	<u>Unit</u>	Analyst
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	9.4	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.1	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.8	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	4.0	NTU	MJ

Client ID: Lake 2 Sample Type: Surface Water
ACT Lab No.: CG01952 Sample Time: 03/20/24 06:35

<u>Parameter</u>	Analysi <u>Start</u>	End	Method No.	MRL	Result	<u>Unit</u>	Analyst
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	9.0	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.1	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.4	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	5.0	NTU	MJ

		- 1	LOOLIO				
Client ID: Lake 3 ACT Lab No.: CG01953					e: Surface Water e: 03/20/24 06:40		
	Analysi	is Date					
Parameter	Start	End	Method No.	MRL	Result	<u>Unit</u>	Analyst
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	9.1	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.1	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.7	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	4.4	NTU	MJ
Client ID: Lake 4 ACT Lab No.: CG01954					e: Surface Water e: 03/20/24 06:50	1	
	Analysi	s Date					
Parameter	<u>Start</u>	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	8.0	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.1	SU	ΑM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.6	С	ΑM
Turbidity	03/20/24	03/20/24	180.1	0.1	11.	NTU	MJ
Client ID: Lake 5 ACT Lab No.: CG01955					e: Surface Water e: 03/20/24 06:55		
	Analysi				- "	** **	A I 4
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	_MRL	Result_	<u>Unit</u>	Analyst
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	8.3	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.0	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.7	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	7.3	NTU	MJ

			ESOLIS				
Client ID: Lake 6 ACT Lab No.: CG01956					e: Surface Water e: 03/20/24 07:00		
	Analysi						
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	9.6	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.2	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.5	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	10.	NTU	MJ
Client ID: Lake 7 ACT Lab No.: CG01957					e: Surface Water e: 03/20/24 07:05		
	Analysi	s Date					
Parameter	<u>Start</u>	End	Method No.	MRL	_Result_	<u>Unit</u>	Analyst
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	10.2	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.5	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.9	С	AM
Turbidity	03/20/24	03/20/24	180.1	0.1	1.8	NTU	MJ
Client ID: Lake 8 ACT Lab No.: CG01958					e: Surface Water e: 03/20/24 07:10		
	Analysi						
Parameter	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/20/24	03/20/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Oxygen, Dissolved Field	03/20/24	03/20/24	SM4500 O G	0.1	6.8	mg/L as O2	AM
pH, Field	03/20/24	03/20/24	SM4500H+ B		8.2	SU	AM
Temperature, Field	03/20/24	03/20/24	SM2550 B		17.5	С	AM
Phosphorus, Total	03/25/24	03/27/24	365.3	0.010	0.037	mg/L as P	DW
E. coli, Colilert	03/20/24	03/21/24	SM 9223 B	1	68	MPN/100 mL	MEW
Turbidity	03/20/24	03/20/24	180.1	0.1	5.0	NTU	MJ

Explanation of Terms:

<u>Absent</u> = No golden algae* were detected in the submitted sample.

<u>Present 1</u> = Golden algae* were detected, but rarely observed in the submitted sample.

<u>Present 2</u> = Golden algae* were detected and commonly observed in the submitted sample.

<u>Present 3</u> = Golden algae* were detected and were the dominant algae in the submitted sample.

*Prymnesium parvum or toxin producing related species.

Reviewed by:____

Frederick A. Amalfi, Ph. Laboratory Director

1525 W. University Drive, Suite 106 Tempe, AZ 85281	ersity Driv 281	e, Suite	106						Ė				Cilent Project Info:	Project	t Info		
480-921-8044 fax: 480-921-0049 lab@aquaticconsulting.com	fax: 480-{ onsulting.	921-0049 com	o.		O ₁	Chain	9	Custody	Xpo						0	nosqo	Monitoring Dobson Ranch Association
AC&T Client Reporting Information:	porting In	nformatio	::00							-				Sample # / Pre	Sample Containers # / Preservation:	818 1:	Page1 of 1
Dobson Ranch Association 2719 South Reyes Mesa, AZ 85202	Associatior es	_											X411_3				
Attn: Fran Pawlak, Community Manager P: 4/80-831-8314	ak, Commu	inity Mana	ager			(8						S ements:					AC&T Laboratory Sample
AC&T Sampler:	M	2				HN) sind		•		- ID + #	anfin u	Measur C ,qmə	peviese.	S (Sterile)	(Suffuric)		
Sample Location ID:	Date:	Time:	Matrix:	1-9	NO3+I		Hardn Alkalii	SQT	#СИ\F E. Col		Turb			OZSZEN	_	slogu	riethC
Lake 1	20	630	MS						+	×	-	×	+	0	-	3	1601951
Lake 2		589	MS							×	×	×	2	0	2	9	1
Lake 3		0,69	MS	7.53						×	×	×	2	0	2	9	1953
Lake 4		959	MS	1330						×	×	×	17	0	2	9	1954
Lake 5		559	SW							×	×	×	7				1955
Lake 6		006	SW							×	×	×	7				1950
Lake 7	//	502	SW							×	×	×	7				
Lake 8	>	710	SW	×					×	×	×	×	2	_	-		1958
Project Location:	AC	& T Sampl	A C & T Sample Receipt:		(-	RELINQUISHED BY:	UISHED	BY:		9				_ "	RELI	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers:	ontainers:	8	Signature:	1	700	,		3	1	1	Signature	:i				
PO#:	Received	d Intact:	YES IN		H	2	3	1	12	3		Print	Print Name:				
Lakes Contract	# Bottles Preserved:	ک	Non:		120	9	7	Time:	44	1		Date:					Time:
Notes:	Samples	Samples On Ice:	YES NO				2. RECE	RECEIVED BY:	g.							4. RE	4. RECEIVED BY:
	Ice Type:	'ype:	WET BLUE	Signature: M	M							Signature:	ture:				
	Sample	Sample Receipt	1200	Print Name: M								Print	Print Name:				
	2	araia.	()	_	12/17/	2:1			111111								

. . .



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

GOLDEN ALGAE REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 03/27/24 Date Reported: 04/03/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

		K	ESULIS				
Client ID: Lake 1 ACT Lab No.: CG02100					oe: Surface Water ne: 03/27/24 07:00		
	Analysi	s Date					
<u>Parameter</u>	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Client ID: Lake 2 ACT Lab No.: CG02101					ne: Surface Water ne: 03/27/24 07:05		
	Analysi	s Date					
Parameter_	Start	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Client ID: Lake 3 ACT Lab No.: CG02102					oe: Surface Water ne: 03/27/24 07:10		
	Analysi	s Date					
Parameter	Start	End	Method No.	MRL	Result	Unit	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Client ID: Lake 4			San	nple Typ	e: Surface Water		
ACT Lab No.: CG02103			Sam	ple Tim	ne: 03/27/24 07:15		
	Analysi	s Date					
Parameter	<u>Start</u>	End	Method No.	MRL	Result	_Unit_	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 5 ACT Lab No.: CG02104					De: Surface Water ne: 03/27/24 07:20		
	Analysi	s Date					
Parameter_	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Client ID: Lake 6 ACT Lab No.: CG02105					ne: Surface Water ne: 03/27/24 07:30		
A01 Lab 140 0002100	Analysi	e Data		.,5.0			
Parameter	Start	End	Method No.	MRL	Result	Unit	Analyst
				1	Absent	Pres/Abs	FAA
Golden Algae	03/27/24	03/2//24	P/C Microscopy	1	Absent	FIESIADS	FAA
Client ID: Lake 7					e: Surface Water		
ACT Lab No.: CG02106			Sam	ple Tin	ne: 03/27/24 07:40		
	Analysi	s Date					
<u>Parameter</u>	Start	End	Method No.	MRL	_Result_	<u>Unit</u>	Analyst
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Client ID: Lake 8					e: Surface Water		
ACT Lab No.: CG02107			Sam	iple Tim	e: 03/27/24 07:45		
	Analysi						
Parameter_	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Golden Algae	03/27/24	03/27/24	P/C Microscopy	1	Absent	Pres/Abs	FAA

<u>Absent</u> = No golden algae* were detected in the submitted sample.

<u>Present 1</u> = Golden algae* were detected, but rarely observed in the submitted sample.

<u>Present 2</u> = Golden algae* were detected and commonly observed in the submitted sample.

<u>Present 3</u> = Golden algae* were detected and were the dominant algae in the submitted sample.

*Prymnesium parvum or toxin producing related species.

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample Identification P015 2106 AC&T 2105 T012 2103 Page 1 of 1 2102 2101 Lake 1-8 Monthly Montforing Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Time: :nerttO sjoßny Sample Containers # / Preservation: Client Project Info: HNO3 (NIPLC) (elheiz) ¿OSSZ&N Print Name: Print Name: Signature: Signature: ~ PH, Temp, O2 Field Measurements: Golden algae × × × × × × × × # + OI - agalA 2 Chain of Custody #СЫ/Рћео (, RELINQUISHED BY 2. RECEIVED BY: E. Coli 1 H212180 (SHM) sinommA ٤ TKM-Elec Signature: M NO3+NO2 Print Name: Print Name Signatu e: T.q BLUE 2 9 8 1900 Matrix: SW SW SW SW SW SW SW MS A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. YES WET Non: YES Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 18 220 730 740 # Bottles
Preserved: Total # Containers: Time: Sample Receipt Temperature: 210 705 715 Samples On Ice: lab@aquaticconsulting.com Ice Type: Dobson Ranch Association 3/27/24 Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Sample Location ID: Lake 2 Lake 3 Lake 4 Lake 5 Lake 6 Lake 8 Lake 7 Lake 1 Notes: PO#:

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date:

Lake	Temp	Dis.	퓹	Clarity	Algae	Submerged	Fish	Waterfowl	Insect	Mechanical
		OAYBEIL				WGGGS	5	derisity	activity	Issues
	Ş		(11/0	□Suspended	□ Present		No. 20	□ Normal	Fountain
-	0.0 0.0 0.0	18.0 c 9.1 mg/L 8.2su # NTU	08-78	SDZ 44 NTU	□ Floating □ Bottom □ Attached	□ Absent	□ Distress □ Dead	No/A 1,8	□ Infestation	□ Operating □ No service
				17.	□Suspended	□ Present	□ Normal	No. 21	□ Normal	Fountain
7	17.9 C	85 mg/L 8.2su 54"SDz	8.2su	56''SDz	□ Floating	□ Absent		No/A 3.5	□ Infestation	□ Operating
				OLIN TO	□ Attached		□ Dead			□ No service
	Š	•	(C	11/2/	□Suspended	□ Present	□ Normal	No. 29	□ Normal	Fountain
က	00	208 / 0 US DO 1/8 NTU 3/6 NTU	O.J.sn	3.6 NTU	□ Floating □ Bottom □ Attached	□ Absent	□ Distress □ Dead	No/A 7.2	□ Infestation	□ Operating □ No service
				-	Suspended	□ Present	Normal	No. 13	Normal	Fountain
4	17.8c	8 may 8.7 su	8.7.8U	35 SDz	□ Floating	□ Absent	□ Distress	No/A 4.3	□ Infestation	□ Operating
				5.4 NTU	□ Bottom □ Attached		□ Dead		`	□ No service
	<u> </u>		(□Suspended	□ Present	Mormal	No.	Mormal	
ις:	0 1"/	1./ mg/L 0./ SU	Q SU	SDZ	□ Floating □ Bottom	Absent	□ Distress	No/A 5:Z	□ Infestation	
				O INI O	□ Attached		□ Dead			
	<u>.</u>	·	è		□Suspended	□ Present	Mormal	No. 5 2	□ Mormal	
9	1/19c	4.6 mg/L & Su	SO SO	SDZ SAINTU	□ Floating □ Bottom	p.Absent	□ Distress □ Dead	No/A 9.5	□ Infestation	
					Suspended	Drocent	- Actions	6	lemon	Fourthin
^) (2) (2) (3)	10 7 may 1 8 Usi	00 USII	SDz	r Floating	Absent	□ Distress	No/A <	□ Infestation	Derating
			3	(-5 NTU	□ Bottom □ Attached		□ Dead			□ No service
	ĩ	/ E	00	N-TEL	Depuden	□ Present	□ Mormal	No.	o Mormal	Aerators
œ	ر <i>ا</i> به د	67 mg/L 6.7 su	6.7 su	3.85 NTU	□ Floating □ Bottom □ Attached	a Absent	□ Distress	No/A 44.8	□ Infestation	□ Operating □ No service

Notes and recommendations for treatment/operation:

+ 7) light microcust

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date: By:

Mechanical issues	Fountain (2) Operating	Fountain a Operating	Fountain & Operating No service	Fountain Coperating			Fountain & Operating	Aerators Operating No service
Mec	Fountain (1) Operat	Fountain a Operat	P N D	P Z Z			-	1
Insect	✓ Normal □ Infestation	□ Infestation	e-Normal □ Infestation	n Infestation	□ Infestation	□ Infestation	□ Infestation	□ Infestation
Waterfowl	No. No. No/A	No. 1,8	No. 20 No/A 5.0	No. No/A 3,0	No. No/A 4.7	No. 4	No. 3	No. 6.8
Fish	Dead	tr-Normal □ Distress □ Dead	⊕ Normal □ Distress □ Dead	to-Normal □ Distress □ Dead	□ Distress	⊕Normal □ Distress □ Dead	□ Distress	Distress Dead
Submerged	□ Present △ Absent	□ Present er Absent	□ Present vÆbsent	ল Present □ Absent	দেশ Present	□ Present te Absent	□ Present ☑ Absent	□ Present
Algae	□Suspended □ Floating □ Bottom □ Attached	Suspended Eloating Bottom Attached	□Suspended □ Floating □ Bottom □ Attached	Suspended Eloating Bottom				
Clarity	SDS ZZZ	SDZ S.O NTU	SDZ <u>4.4</u> NTU	SDz ((2) NTU	SDz 7.3 NTU	SDZ (<u>Cō)</u>	SDZ I-Ö NTU	SDZ SOZ NTU
Hd	& su		S / Su	8. su	mg/L 80su	08980	85 su	ns so
Dis. oxygen	9.4 mg/L	J.Omg/L 8. su	9. (_mg/L	SD mg/L	83 mg/L	1750 96 mg/L	102 mg/L 85 su	W. Bug/L B. su
Temp	17.8 c	17.4c	[7,7c	17.6c	17.7c	1725c	179c	175c
Lake	-	2	က	4	ស	ဖ	7	00

Notes and recommendations for treatment/operation:

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