AQUATIC CONSULTING & TESTING, INC.

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Lic. No. AZ0003

01 December 2023

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

November 2023 Lake Report

The following abbreviated report presents the results of field inspections on the Dobson Ranch lakes for the month of November 2023. This report summarizes data collected under the revised program initiated in 2019 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Therefore, this report provides visual inspection and field data for Lakes 1-8 completed during the month. Field sheets for the inspections are also included. Additionally, special *E. coli* and total phosphorus data are presented for Lake 8.

November 2023 Report Narrative Summary

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

Lake 1

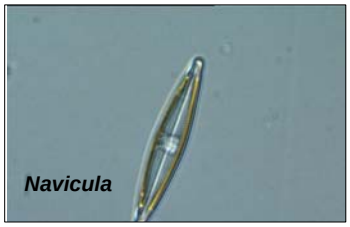
The Lake 1 temperature moved lower and ranged from a high of 19.4 C to a low of 19.0 C (67-66 F). Water pH ranged 8.2-8.3 SU indicating low to moderate algae density. Dissolved oxygen (8.2-8.3 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was consistent with the previous reporting period at over one meter and turbidity ranged from 6.1 to 8.1 NTU. Fountains were in service throughout the reporting period.

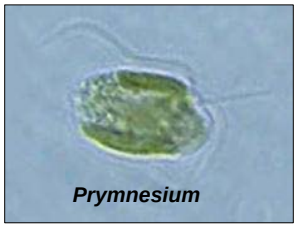
Waterfowl mean density was less than two birds per acre (<2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

Waterfowl Density Ranking System (AZG&FD)

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

No abnormal algae growth or submerged weeds were observed. The diatoms *Nitzschia* and *Navicula* dominated the phytoplankton. Cell density was low. No golden algae (*Prymnesium parvum* or related species) were detected.



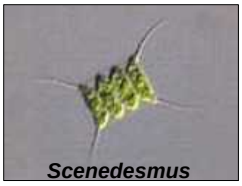


Lake 2

The water temperature of Lake 2 was 18.9-19.2 C (65-66 F). Water pH ranged from 8.2 to 8.3 SU indicating probable low algae density. Dissolved oxygen (8.1-8.7 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was approximately one meter and turbidity was typical at 4.5 to 5.5 NTU. Fountains were in operation.

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

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



Lake 3

Lake temperature range was 19.2 to 19.3 C (66 F). Water pH ranged from 8.3 to 8.4 SU. Dissolved oxygen concentration ranged from 8.1 to 8.7 mg/L and remained satisfactory for the fishery. Fish activity appeared normal. Transparency was stable at just under one meter. Turbidity was stable, ranging from 7.2 to 12.0 NTU. Fountains were operating throughout the reporting period.

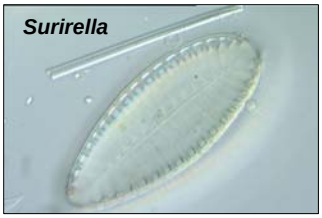
Waterfowl density ranged from 6 to 7 birds per acre; a “poor” rating. Minimal cormorants were observed. Increased numbers of waterfowl was expected during the migratory season. Adult midge flies did not appear to produce any nuisance issues o lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. The dominant algae present in Lake 3 during the reporting period were *Cyclotella* and *Navicula*. Very low total phytoplankton density prevented any problems. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 4

The temperature of Lake 4 ranged between 18.7 and 19.2 C (66-67 F). Water pH was moderate at 8.3 SU and indicated a low to moderate algae density. Dissolved oxygen (8.4-8.8 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was slightly over one meter and turbidity remained low (7.6-8.1 NTU). Fountains were in operation.

Waterfowl density was less than 1 per acre (<1/A) which is considered excellent. No cormorant issues were reported. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.



No abnormal algae growth or submerged weeds were observed. The green colony *Palmellococcus* and unicellular diatom *Surirella* were the dominant forms of algae during the repodring period. These alga are not likely to be problematic. Total phytoplankton density also was relatively low. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 5

Lake temperature ranged from 19.2 to 19.6 C (67 F) during the month. Water pH was 8.3 SU, indicative of a low to moderate algal density. Dissolved oxygen (8.2-8.8 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Transparency was just under one meter and turbidity ranged from 9.2 to 9.8 NTU.

Waterfowl density was about three to five birds per acre (3-5/A); “good to fair” by the AZG&F ranking system. Few cormorants were observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

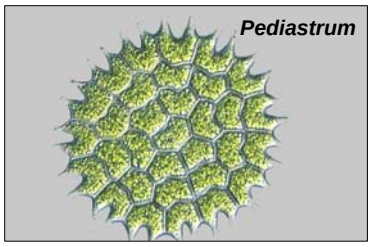
No abnormal algae growth or submerged weeds were observed. The dominant algae were green (Chlorophyta) forms: *Chlorella* and *Chlamydomonas*. The total cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected. The decrease in blue-green algae density is a positive sign in terms of water quality.

Lake 6

The temperature of Lake 6 ranged from 19.3 to 19.5 C (67 F) during the reporting period. Water pH ranged from 8.2 – 8.3, indicating low algae density. Dissolved oxygen (8.7-9.2 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 7.4-9.9 NTU during the month and transparency was less than one meter.

Waterfowl density ranged from four to eight birds per acre (4-8/A) which is considered fair. Cormorants were occasionally observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth (other than increased density) or submerged weeds were observed. The dominant alga was the green (Chlorophyta) and blue-green (Cyanophyta) colonies *Pediastrum* and *Merismopedia.* These algae are not typically operationally problematic and no issues occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.

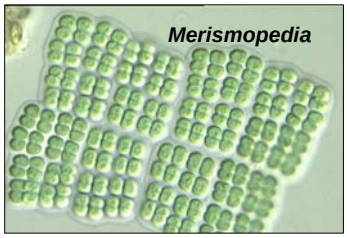


Lake 7

Lake temperature ranged from 19.7 to 20.5 C (68-69 F). Water pH ranged from 8.3 to 8.5 SU, indicating low to moderate algae density. Dissolved oxygen ranged from 8.6 to 9.0 mg/L and was more than satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter, with turbidity of 8.4-10.0 NTU. Fountains were in operation.

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

The dominant suspended algae in the lake were blue-green and green forms; colonies of *Merismopedia* and *Oocystis*. Density of algae was low to moderate. No golden algae were identified in the lake.



Lake 8

Lake temperatures ranged from 19.9 to 20.3 C (68 - 69 F) during the month. Water pH was 8.4 SU. Dissolved oxygen concentration was 8.1-8.5 mg/L and was satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter and turbidity correspondingly measured 4.2 to 7.6 NTU. Aerators were in operation.

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

No submerged weeds were observed. The phytoplankton was dominated by blue-green algae colonies of *Merismopedia.* The alga can make the water appear turbid and olive green in color. Minor surface scum was observed. Cell density was in the moderate range. No golden algae were detected in the reservoir.

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
11-02-23	62	0.027
11-16-23	32	0.034

The measured bacteria concentrations are below the maximum levels established for partial and full body contact recreation by the State.

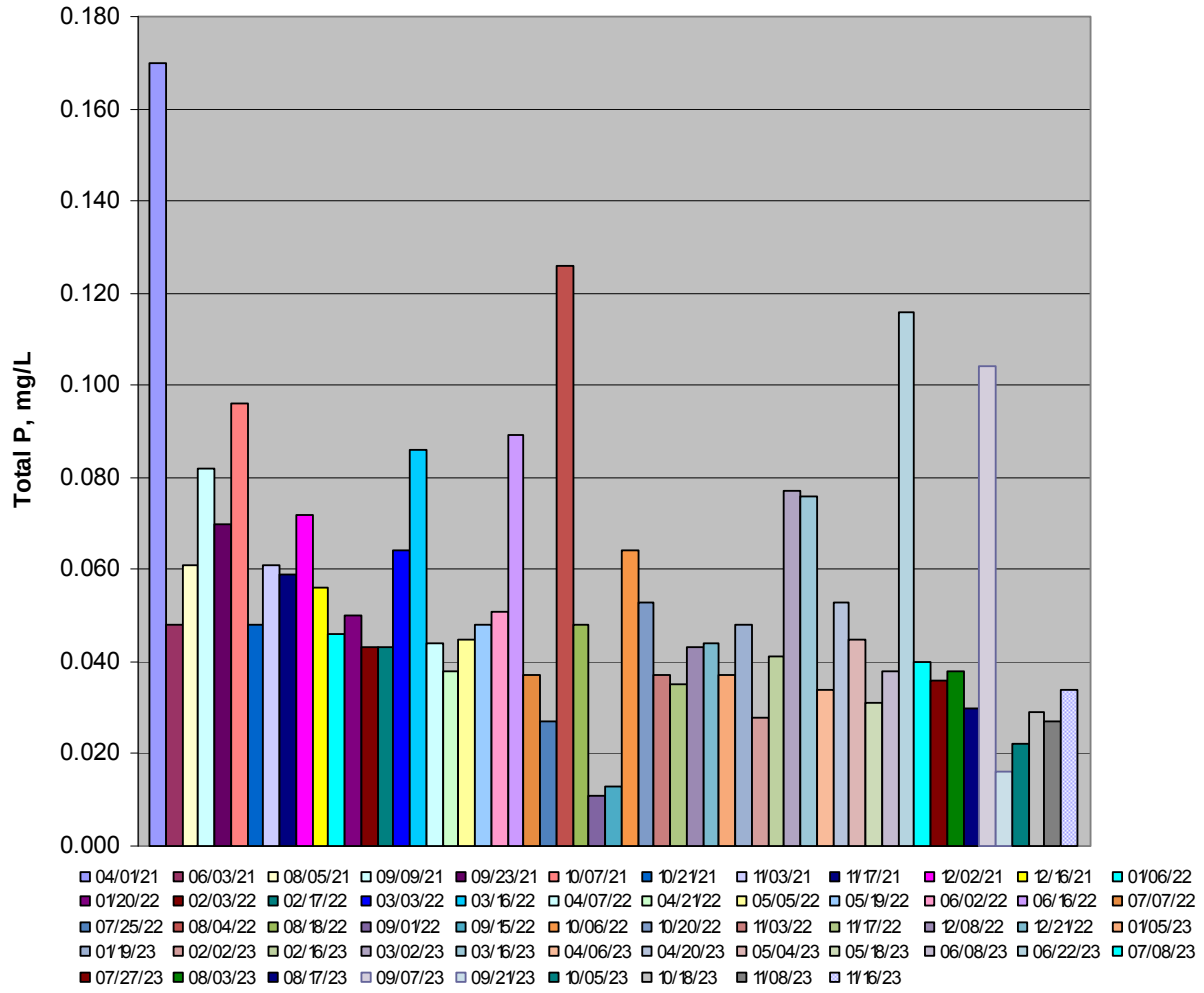
The table at the conclusion of the report summarizes phosphorus concentrations in Lake 8 during the recent study period. Noting the Phoslock® application occurred on 29 November 2021, no dramatic reduction in phosphorus is shown. However, the impact may be more long-term if it reduces recycling of phosphorus from the sediment. Data collection will be continued.

An application of 325 Kg of SchlixX Plus® was made in early November. The product is designed to degrade organic sludge at the lake bottom, while inactivating and preventing phosphorus recycling. The product was supplied by and application was assisted and supervised by the manufacturer (Oase, Horstel Germany) at no cost to Dobson Association. Sludge depth and phosphorus concentrations will be periodically monitored to track the success of the application.

Next Month:

Lakes 1-8 are scheduled for routine weekly golden algae 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.

TOTAL PHOSPHORUS LAKE 8



Respectfully:

Aquatic Consulting & Testing, Inc.

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

North American Lake Management Society
NALMS
Frederick Amalfi
#91-01M
Certified Lake Manager

SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents (none)

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Lic. No. AZ0003

LABORATORY REPORT

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

Date Submitted: 11/02/23
Date Reported: 11/14/23

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CF07699

Sample Type: Surface Water
Sample Time: 11/02/23 09:00

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.3	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.3	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	19.0	C
Turbidity	11/02/23	11/02/23	180.1	8.1	NTU

Client ID: Lake 2
ACT Lab No.: CF07700

Sample Type: Surface Water
Sample Time: 11/02/23 09:10

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.7	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.2	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	18.9	C
Turbidity	11/02/23	11/02/23	180.1	5.5	NTU

RESULTS

Client ID: Lake 3
ACT Lab No.: CF07701

Sample Type: Surface Water
Sample Time: 11/02/23 09:15

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.7	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.4	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	19.2	C
Turbidity	11/02/23	11/02/23	180.1	12.	NTU

Client ID: Lake 4
ACT Lab No.: CF07702

Sample Type: Surface Water
Sample Time: 11/02/23 09:25

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.8	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.3	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	18.7	C
Turbidity	11/02/23	11/02/23	180.1	7.6	NTU

Client ID: Lake 5
ACT Lab No.: CF07703

Sample Type: Surface Water
Sample Time: 11/02/23 09:30

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.8	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.3	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	19.2	C
Turbidity	11/02/23	11/02/23	180.1	9.2	NTU

RESULTS

Client ID: Lake 6
ACT Lab No.: CF07704

Sample Type: Surface Water
Sample Time: 11/02/23 09:40

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	9.2	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.2	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	19.5	C
Turbidity	11/02/23	11/02/23	180.1	9.9	NTU

Client ID: Lake 7
ACT Lab No.: CF07705

Sample Type: Surface Water
Sample Time: 11/02/23 09:50

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	9.0	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.3	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	20.5	C
Turbidity	11/02/23	11/02/23	180.1	8.4	NTU

Client ID: Lake 8
ACT Lab No.: CF07706

Sample Type: Surface Water
Sample Time: 11/02/23 10:00

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/02/23	11/02/23	SM4500 O G	8.5	mg/L as O2
pH, Field	11/02/23	11/02/23	SM4500H+ B	8.4	SU
Temperature, Field	11/02/23	11/02/23	SM2550 B	20.3	C
Phosphorus, Total	11/10/23	11/11/23	365.3	0.027	mg/L as P
E. coli, Colilert	11/02/23	11/03/23	SM 9223 B	62	MPN/100 mL
Turbidity	11/02/23	11/02/23	180.1	4.2	NTU

Reviewed by: _____

Frederick A. Amalfi, Ph.D.
Laboratory Director

Aquatic Consulting & Testing, Inc.
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Tempe, AZ 85281
480-921-8044 fax: 480-921-0049
lab@aquaticconsulting.com

Chain of Custody

Client Project Info:

Lake 1-8 Monthly Monitoring
Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
2719 South Reyes
Mesa, AZ 85202

Attn: Fran Paqwlak, Community Manager
P: 4/80-831-8314
E:

AC&T Sampler: Andy

Sample Location ID:	Date:	Time:	Matrix:	P-T	NO3+NO2	TKN-Elec	Ammonia (NH3)	E. Coli	#Chl/Pheo	Alage - ID + #	Golden algae	Turb	Field Measurements: pH, Temp, O2	Sample Containers # / Preservation: None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugols	Other:	AC&T Laboratory Sample Identification
Lake 1	11/2/23	900	SW							X	X	X	X	12						CF07699
Lake 2		910	SW							X	X	X	X	12						700
Lake 3		915	SW							X	X	X	X	12						701
Lake 4		925	SW							X	X	X	X	12						702
Lake 5		930	SW							X	X	X	X	12						703
Lake 6		940	SW							X	X	X	X	12						704
Lake 7		950	SW							X	X	X	X	12						705
Lake 8	↓	1000	SW	X				X		X	X	X	X	12	1		1			706
																			—	

Page1 of 1

Project Location:	A C & T Sample Receipt:			1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers:	18		Signature: Andrew Murrett	Signature:
PO#:	Received Intact:	YES	NO	Print Name: Andrew Murrett	Print Name:
Lakes Contract	# Bottles Preserved: 2	# Non:	16	Date: 11/2/23 Time: 1250	Date: Time:
Notes:	Samples On Ice:	YES	NO	2. RECEIVED BY:	4. RECEIVED BY:
	Ice Type:	WET	BLUE	Signature: MR	Signature:
	Sample Receipt Temperature:	20°C		Print Name: MJ	Print Name:
				Date: 11/02/23 Time: 1250	Date: Time:

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P.O. Box 1510
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Phone: (480) 921-8044 • Fax: (480) 921-0049 Lic. No. AZ0003

LABORATORY REPORT

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

Date Submitted: 11/08/23
Date Reported: 11/20/23

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CF07854
Sample Type: Surface Water
Sample Time: 11/08/23 07:00

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 2
ACT Lab No.: CF07855
Sample Type: Surface Water
Sample Time: 11/08/23 07:05

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 3
ACT Lab No.: CF07856
Sample Type: Surface Water
Sample Time: 11/08/23 07:15

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 4
ACT Lab No.: CF07857
Sample Type: Surface Water
Sample Time: 11/08/23 07:25

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

RESULTS

Client ID: Lake 5
ACT Lab No.: CF07858
Sample Type: Surface Water
Sample Time: 11/08/23 07:30

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 6
ACT Lab No.: CF07859
Sample Type: Surface Water
Sample Time: 11/08/23 07:40

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 7
ACT Lab No.: CF07860
Sample Type: Surface Water
Sample Time: 11/08/23 07:50

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 8
ACT Lab No.: CF07861
Sample Type: Surface Water
Sample Time: 11/08/23 07:55

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Reviewed by: Frederick A. Amalfi

Frederick A. Amalfi, Ph.D.
Laboratory Director

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Chain of Custody

Client Project Info:

Lake 1-8 Golden Monitoring
Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
2719 South Reyes
Mesa, AZ 85202

Attn: Fran Paqwlak, Community Manager
P: 4/80-831-8314
E: AM

AC&T Sampler:

Sample Location ID:	Date:	Time:	Matrix:	P-T	NO3+NO2	TKN-Elec	Ammonia (NH3)	E. Coli	#Chl/Pheo	Alage - ID + #	Golden algae	Turb	Field Measurements: pH, Temp, O2	Sample Containers # / Preservation: None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugols	Other:	AC&T Laboratory Sample Identification
Lake 1	11/8/23	7:00	SW								X			1						07854
Lake 2		705	SW								X			1						855
Lake 3		715	SW								X			1						856
Lake 4		725	SW								X			1						857
Lake 5		730	SW								X			1						858
Lake 6		740	SW								X			1						859
Lake 7		750	SW								X			1						860
Lake 8	↓	755	SW								X			1						861

Page1 of 1

Project Location:	A C & T Sample Receipt:			1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers:	8		Signature:	Signature:
PO#:	Received Intact:	YES	NO	Print Name: Andrew Murrett	Print Name:
Lakes Contract	# Bottles Preserved:	# Non:	X	Date: 11/8/23 Time: 1350	Date: Time:
Notes:	Samples On Ice:	YES	NO	2. RECEIVED BY:	4. RECEIVED BY:
	Ice Type:	WET	BLUE	Signature:	Signature:
	Sample Receipt Temperature:	27°C		Print Name: MJ	Print Name:
				Date: 11/08/23 Time: 1350	Date: Time:

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Phone: (480) 921-8044 • Fax: (480) 921-0049 Lic. No. AZ0003

LABORATORY REPORT

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

Date Submitted: 11/16/23
Date Reported: 11/29/23

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CF08059

Sample Type: Surface Water
Sample Time: 11/16/23 08:40

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.2	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.4	C
Turbidity	11/16/23	11/16/23	180.1	6.1	NTU

Client ID: Lake 2
ACT Lab No.: CF08060

Sample Type: Surface Water
Sample Time: 11/16/23 08:50

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.1	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.2	C
Turbidity	11/16/23	11/16/23	180.1	4.5	NTU

RESULTS

Client ID: Lake 3
ACT Lab No.: CF08061

Sample Type: Surface Water
Sample Time: 11/15/23 09:00

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.1	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.3	C
Turbidity	11/16/23	11/16/23	180.1	7.2	NTU

Client ID: Lake 4
ACT Lab No.: CF08062

Sample Type: Surface Water
Sample Time: 11/15/23 09:05

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.4	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.2	C
Turbidity	11/16/23	11/16/23	180.1	8.1	NTU

Client ID: Lake 5
ACT Lab No.: CF08063

Sample Type: Surface Water
Sample Time: 11/15/23 09:10

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.2	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.6	C
Turbidity	11/16/23	11/16/23	180.1	9.8	NTU

RESULTS

Client ID: Lake 6
ACT Lab No.: CF08064

Sample Type: Surface Water
Sample Time: 11/16/23 09:15

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.7	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.3	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.3	C
Turbidity	11/16/23	11/16/23	180.1	7.4	NTU

Client ID: Lake 7
ACT Lab No.: CF08065

Sample Type: Surface Water
Sample Time: 11/16/23 09:25

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.6	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.6	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.7	C
Turbidity	11/16/23	11/16/23	180.1	10.	NTU

Client ID: Lake 8
ACT Lab No.: CF08066

Sample Type: Surface Water
Sample Time: 11/16/23 09:30

Parameter	Analysis Date Start	Analysis Date End	Method No.	Result	Unit
Golden Algae	11/16/23	11/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	11/16/23	11/16/23	SM4500 O G	8.1	mg/L as O2
pH, Field	11/16/23	11/16/23	SM4500H+ B	8.1	SU
Temperature, Field	11/16/23	11/16/23	SM2550 B	19.9	C
Phosphorus, Total	11/17/23	11/22/23	365.3	0.034	mg/L as P
E. coli, Colilert	11/16/23	11/17/23	SM 9223 B	32	MPN/100 mL
Turbidity	11/16/23	11/16/23	180.1	7.6	NTU

Reviewed by: Frederick A. Amalfi

Frederick A. Amalfi, Ph.D.
Laboratory Director

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

Chain of Custody

Client Project Info:

Lake 1-8 Monthly Monitoring
Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
2719 South Reyes
Mesa, AZ 85202

Attn: Fran Paqwlak, Community Manager
P: 4/80-831-8314
E: Fran

AC&T Sampler:

Sample Location ID:	Date:	Time:	Matrix:	P-T	NO3+NO2	TKN-Elec	Ammonia (NH3)	E. Coli	#Chl/Pheo	Alage - ID + #	Golden algae	Turb	Field Measurements: pH, Temp, O2	Sample Containers # / Preservation: None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugols	Other:	AC&T Laboratory Sample Identification
Lake 1	11/16/23	840	SW								X	X	X	1 2						CF08059
Lake 2		850	SW								X	X	X	1 2						8060
Lake 3		900	SW								X	X	X	1 2						8061
Lake 4		905	SW								X	X	X	1 2						8062
Lake 5		910	SW								X	X	X	1 2						8063
Lake 6		915	SW								X	X	X	1 2						8064
Lake 7		925	SW								X	X	X	1 2						8065
Lake 8	↓	930	SW	X				X			X	X	X	1 2	1		1			8066

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Project Location:	A C & T Sample Receipt:			1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers:	18		Signature: Andrew Murrett	Signature:
PO#:	Received Intact:	YES	NO	Print Name: Andrew Murrett	Print Name:
Lakes Contract	# Bottles Preserved: 2	# Non:	16	Date: 11/16/23 Time: 1645	Date: Time:
Notes:	Samples On Ice:	YES	NO	2. RECEIVED BY:	4. RECEIVED BY:
	Ice Type:	WET	BLUE	Signature: MS	Signature:
	Sample Receipt Temperature:	19°C		Print Name: MJ	Print Name:
				Date: 11/16/23 Time: 1045	Date: Time:

AQUATIC CONSULTING & TESTING, INC.

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

Lic. No. AZ0003

GOLDEN ALGAE REPORT

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

Date Submitted: 11/22/23
Date Reported: 11/29/23

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

Client ID: Lake 1
ACT Lab No.: CF08234
Sample Type: Surface Water
Sample Time: 11/22/23 07:15

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 2
ACT Lab No.: CF08235
Sample Type: Surface Water
Sample Time: 11/22/23 07:20

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 3
ACT Lab No.: CF08236
Sample Type: Surface Water
Sample Time: 11/22/23 07:30

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 4
ACT Lab No.: CF08237
Sample Type: Surface Water
Sample Time: 11/22/23 07:40

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

RESULTS

Client ID: Lake 5
ACT Lab No.: CF08238
Sample Type: Surface Water
Sample Time: 11/22/23 07:45

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 6
ACT Lab No.: CF08239
Sample Type: Surface Water
Sample Time: 11/22/23 07:50

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 7
ACT Lab No.: CF08240
Sample Type: Surface Water
Sample Time: 11/22/23 07:55

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Client ID: Lake 8
ACT Lab No.: CF08241
Sample Type: Surface Water
Sample Time: 11/22/23 08:00

Parameter	Analysis Date Start	End	Method No.	MRL	Result	Unit	Analyst
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1	Absent	Pres/Abs	FAA

Explanation of Terms:

Absent = No golden algae* were detected in the submitted sample.
Present 1 = Golden algae* were detected, but rarely observed in the submitted sample.
Present 2 = Golden algae* were detected and commonly observed in the submitted sample.
Present 3 = 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

Frederick A. Amalfi, Ph.D.
Laboratory Director

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

Chain of Custody

Client Project Info:

Lake 1-8 Golden Monitoring
Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
2719 South Reyes
Mesa, AZ 85202

Attn: Fran Paqwlak, Community Manager
P: 4/80-831-8314
E:

AC&T Sampler: AM

Sample Location ID:	Date:	Time:	Matrix:	P-T	NO3+NO2	TKN-Elec	Ammonia (NH3)	E. Coli	#Chl/Pheo	Alage - ID + #	Golden algae	Turb	Field Measurements: pH, Temp, O2	Sample Containers # / Preservation: None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugols	Other:	AC&T Laboratory Sample Identification
Lake 1	11/22/23	7:15	SW								X			1						CF08234
Lake 2		7:20	SW								X			1						235
Lake 3		7:30	SW								X			1						236
Lake 4		740	SW								X			1						237
Lake 5		745	SW								X			1						238
Lake 6		750	SW								X			1						239
Lake 7		755	SW								X			1						240
Lake 8		800	SW								X			1						241
																				—
																				—

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Project Location:	A C & T Sample Receipt:			1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers:	8		Signature: Andrew Murrell	Signature:
PO#:	Received Intact:	YES	NO	Print Name: Andrew Murrell	Print Name:
Lakes Contract	# Bottles Preserved:	# Non:	8	Date: 11/22/23 Time: 1340	Date: Time:
Notes:	Samples On Ice:	YES	NO	**2. RECEIVED BY:**	**4. RECEIVED BY:**
	Ice Type:	WET	BLUE	Signature: MO	Signature:
	Sample Receipt Temperature:	20°C		Print Name: My	Print Name:
				Date: 11/22/23 Time: 1340	Date: Time:

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date: 11/2/23

By: AM

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	19.0 C	8.3 mg/L	8.3 SU	___ SDz 8.1 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 12 No/A ___	☒ Normal ☐ Infestation	Fountain ☒ Operating ☐ No service
2	18.9 C	8.7 mg/L	8.2 SU	___ SDz 5.5 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 6 No/A ___	☒ Normal ☐ Infestation	Fountain ☒ Operating ☐ No service
3	19.2 C	8.7 mg/L	8.4 SU	___ SDz 12.0 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 28 No/A ___	☒ Normal ☐ Infestation	Fountain ☒ Operating ☐ No service
4	18.7 C	8.8 mg/L	8.3 SU	___ SDz 7.6 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 4 No/A ___	☒ Normal ☐ Infestation	Fountain ☒ Operating ☐ No service
5	19.2 C	8.8 mg/L	8.3 SU	___ SDz 9.2 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 13 No/A ___	☒ Normal ☐ Infestation	
6	19.5 C	9.2 mg/L	8.2 SU	___ SDz 9.9 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 48 No/A ___	☒ Normal ☐ Infestation	
7	20.5 C	9.0 mg/L	8.3 SU	___ SDz 8.4 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 10 No/A ___	☒ Normal ☐ Infestation	Fountain ☒ Operating ☐ No service
8	20.3 C	8.5 mg/L	8.4 SU	___ SDz 4.2 NTU	☐Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☒ Absent	☒ Normal ☐ Distress ☐ Dead ___	No. 14 No/A ___	☐ Normal ☐ Infestation	Aerators ☒ Operating ☐ No service

Notes and recommendations for treatment/operation:

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date: 11/16/23

By: AM

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	19.4 C	8.2 mg/L	8.3 SU	6.1 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 19 No/A ___	☑ Normal ☐ Infestation	Fountain ☑ Operating ☐ No service
2	19.2 C	8.1 mg/L	8.3 SU	4.5 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 11 No/A ___	☑ Normal ☐ Infestation	Fountain ☑ Operating ☐ No service
3	19.3 C	8.1 mg/L	8.3 SU	7.2 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 27 No/A ___	☑ Normal ☐ Infestation	Fountain ☑ Operating ☐ No service
4	19.2 C	8.4 mg/L	8.3 SU	8.1 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 5 No/A ___	☑ Normal ☐ Infestation	Fountain ☑ Operating ☐ No service
5	19.6 C	8.2 mg/L	8.3 SU	9.8 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 21 No/A ___	☑ Normal ☐ Infestation	
6	19.3 C	8.7 mg/L	8.3 SU	7.4 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☐ Present ☑ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 28 No/A ___	☑ Normal ☐ Infestation	
7	19.7 C	8.6 mg/L	8.5 SU	10.0 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☑ Present ☐ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 21 No/A ___	☑ Normal ☐ Infestation	Fountain ☑ Operating ☐ No service
8	19.9 C	8.1 mg/L	8.4 SU	7.6 SDz NTU	☐ Suspended ☐ Floating ☐ Bottom ☐ Attached	☑ Present ☐ Absent	☑ Normal ☐ Distress ☐ Dead ___	No. 14 No/A ___	☑ Normal ☐ Infestation	Aerators ☑ Operating ☐ No service

Notes and recommendations for treatment/operation: