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

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.

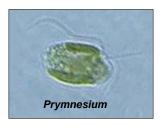
Waterfowl Density Ranking System (AZG&FD)

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.





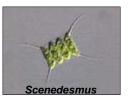


Lake 2

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 (\sim 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.



Cyclotella

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.

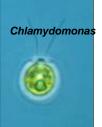


<u>Lake 5</u>

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.

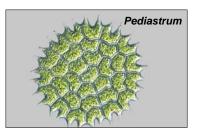


Lake 6

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.

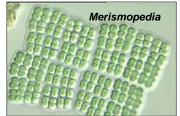


<u>Lake 7</u>

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	<i>E. coli</i> , MPN/100 mL)	Phosphorus, mg/L
11-02-23	62	0.027
11-16-23	32	0.034

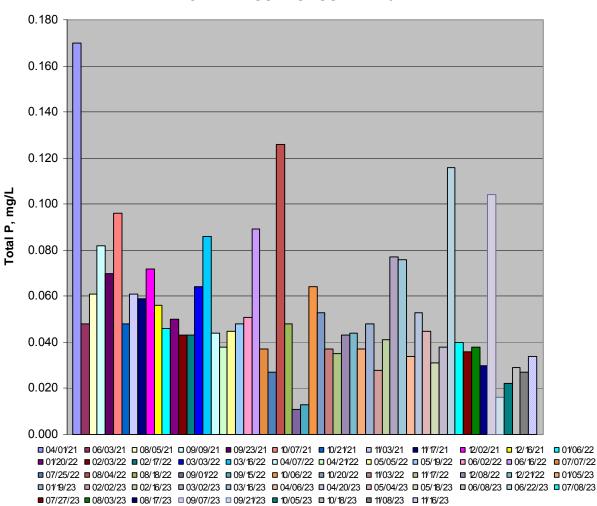
The measured bacteria concentrations are below the maximum levels established for partial and full body contact recreation by the State.

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.



SUPPORTING DOCUMENTATION

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

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NTU

LABORATORY REPORT

RESULTS

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

pH, Field

Turbidity

Temperature, Field

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

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

8.2

18.9

5.5

		RECOLI	•		
Client ID: Lake 1 ACT Lab No.: CF07699			Sample Type: Surfact Sample Time: 11/02/		
	Analys	is Date			
Parameter	<u>Start</u>	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	С
Turbidity	11/02/23	11/02/23	180.1	8.1	NTU
Client ID: Lake 2 ACT Lab No.: CF07700			Sample Type: Surfac Sample Time: 11/02/		
	Analys	is Date			
Parameter	<u>Start</u>	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

11/02/23 11/02/23

11/02/23 11/02/23

11/02/23 11/02/23

SM4500H+ B

SM2550 B

180.1

Page 1 of 3

RESULTS

Client ID: Lake 3 ACT Lab No.: CF07701			Sample Type: Surfact Sample Time: 11/02/2		
	Analys	is Date			
Parameter	<u>Start</u>	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	С
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

Analysi	s Date			
<u>Start</u>	End	Method No.	Result	Unit
11/02/23	11/02/23	P/C Microscopy	Absent	Pres/Abs
11/02/23	11/02/23	SM4500 O G	8.8	mg/L as O2
11/02/23	11/02/23	SM4500H+ B	8.3	SU
11/02/23	11/02/23	SM2550 B	18.7	С
11/02/23	11/02/23	180.1	7.6	NTU
	<u>Start</u> 11/02/23 11/02/23 11/02/23 11/02/23	11/02/23 11/02/23 11/02/23 11/02/23 11/02/23 11/02/23 11/02/23 11/02/23 11/02/23 11/02/23	StartEndMethod No.11/02/2311/02/23P/C Microscopy11/02/2311/02/23SM4500 O G11/02/2311/02/23SM4500H+ B11/02/2311/02/23SM2550 B	StartEndMethod No.Result11/02/2311/02/23P/C MicroscopyAbsent11/02/2311/02/23SM4500 O G8.811/02/2311/02/23SM4500H+ B8.311/02/2311/02/23SM2550 B18.7

Client ID: Lake 5 ACT Lab No.: CF07703

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

	Analys	is Date			
Parameter	<u>Start</u>	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	С
Turbidity	11/02/23	11/02/23	180.1	9.2	NTU

RESULTS

Client ID: Lake 6 ACT Lab No.: CF07704			Sample Type: Surfact Sample Time: 11/02/		
Parameter	Analys <u>Start</u>	is Date <u>End</u>	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	С
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

	Analysi	is Date			
Parameter	<u>Start</u>	End	Method No.	Result	<u>Unit</u>
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	С
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

	Analys	is Date			
Parameter	Start	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	С
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

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NO

Reviewed by:_

Frederick A. Amalfi, Ph.D. Laboratory Director

Aquatic Con 1525 W. Unive	Aquatic Consulting & Testing, Inc. 1525 W. University Drive, Suite 106	<mark>19, Inc.</mark> 106												
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Dobson Ranch Association 2719 South Reyes Mesa, AZ 85202	Association													Paget of 1
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Lake 2	016	SW				~	×	××	ŕ					00L
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Lake 4	925	SW				-	×	××	A	0				201
Lake 5	930	SW				*		××	12	0				703
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Lake 8	1/ 1000	SW	×		×	×	×	×	P	5		-		706
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PO#:	Received Intact:	YES NO	Print Name;	when	MAN	re H			Print Name:	ö				
Lakes Contract	# Bottles Preserved:	"" Non: \\0	Date: (//	12123	Time:	3.30			Date:					Time:
Notes:	Samples On Ice:	YES		2.1	2. RECEIVED BY:		1					4	RECE	4. RECEIVED BY:
	Ice Type:	WET BLUE	Signature: M						Signature:					
	Sample Receipt Temperature	100	Print Name: M	()					Print Name:	ä				
	in mining line :	3	Date: \\\C	11/02/23	Time:	200			Date:					Time:

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

Lic. No. AZ0003

LABORATORY REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 11/08/23 Date Reported: 11/20/23

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

		RESULT	S		
Client ID: Lake 1 ACT Lab No.: CF07854			Sample Type: Surfact Sample Time: 11/08/		
	Analys		Method No.	Result	Unit
Parameter	Start	End			
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs
Client ID: Lake 2 ACT Lab No.: CF07855			Sample Type: Surfac Sample Time: 11/08/		
	Analys	is Date			
Parameter	Start	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 Sample Time: 11/08/		
	Analys	is Date			
Parameter	_ <u>Start</u>	End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs
Client ID: Lake 4			Sample Type: Surfac		
ACT Lab No.: CF07857			Sample Time: 11/08/	23 07:25	
	Analys	is Date			
Parameter	<u>Start</u>	End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs

Client ID: Lake 5 ACT Lab No.: CF07858			Sample Type: Surfact Sample Time: 11/08/		
	Analys	is Date			
Parameter	Start	End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs
Client ID: Lake 6			Sample Type: Surfac		
ACT Lab No.: CF07859			Sample Time: 11/08/	23 07:40	
	Analys				
Parameter	<u>Start</u>	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: Surfac Sample Time: 11/08/		
	Analys	is Date			
Parameter	<u>Start</u>	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: Surfac Sample Time: 11/08/		
	Analys	is Date			
Parameter	Start	End	Method No.	Result	Unit
Golden Algae	11/08/23	11/08/23	P/C Microscopy	Absent	Pres/Abs
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RESULTS

Frederick A. Amalfi, Ph.D. Laboratory Director

1525 W. Univ	1525 W. University Drive, Suite 106	106					[
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AC&T Client Re	AC&T Client Reporting Information:	on:						6	Sample Containers	tainers		
Dobson Ranch Association 2719 South Reyes Mesa, AZ 85202	Association es									atton:		Paget of 1
Attn: Fran Paqv P: 4/80-831-8314	Attn: Fran Paqwlak, Community Manager P: 4/80-831-8314	nager					:sţuəi			12	<u>1919</u>	AC&T Laboratory Sample
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Sample Location ID:	Date: Time:	Matrix:	NO3	_	E. CC	gslA		-	EONH	Hogu Hossh	Other	and and the second s
Lake 1	11/8/23 7:00	SW				×		-				45840-0
Lake 2	1 765	SW				×		+		1		855
Lake 3	715	SW				×		+				356
Lake 4	725	SW				×		-				257
Lake 5	all a	SW				×		-				854
Lake 6	240	SW				×		+				25 S
Lake 7	750	SW				×		-				86 C
Lake 8	\$ 755	SW				×		-				861
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Project Location:	A C & T Sample Receipt:	ole Receipt:		1. RELI	1. RELINQUISHED BY:	H+	-			- ei	ELING	RELINQUISHED BY:
Dobson Ranch	Total # Containers:	Sec.	Signature:	andrea	M War	M	Sign	Signature:			(transfer	
PO#:	Received Intact:	YES NO	Print Name: A	achen	NUUN	ett	Prin	Print Name:				
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Notes:	Samples On Ice:	YES NO	1	(2. RI	2. RECEIVED BY:					4	RECE	4. RECEIVED BY:
	Ice Type:	WET BLUE	Signature: \mathcal{M}	<u>ر</u>			Sigr	Signature:				
	Sample Receipt	7705	Print Name: M	-			Prin	Print Name:				
	Temperature:	112	Date: 11/03	3123		1357	4					

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

Lic. No. AZ0003

LABORATORY REPORT

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

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

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

		RESULT	S		
Client ID: Lake 1 ACT Lab No.: CF08059			Sample Type: Surfact Sample Time: 11/16/		
	_	is Date			
Parameter	Start	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	С
Turbidity	11/16/23	11/16/23	180.1	6.1	NTU
Client ID: Lake 2 ACT Lab No.: CF08060			Sample Type: Surfac Sample Time: 11/16/		
	Analys	is Date			
Parameter	Start	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	С
Turbidity	11/16/23	11/16/23	180.1	4.5	NTU

Page 1 of 3

Sample Type: Surface Water Client ID: Lake 3 Sample Time: 11/15/23 09:00 ACT Lab No.: CF08061 **Analysis Date** Unit Method No. Result Parameter Start End Pres/Abs 11/16/23 11/16/23 P/C Microscopy Absent Golden Algae mg/L as O2 8.1 SM4500 O G Oxygen, Dissolved Field 11/16/23 11/16/23 SU 8.3 SM4500H+ B 11/16/23 11/16/23 pH, Field С SM2550 B 19.3 Temperature, Field 11/16/23 11/16/23 NTU 180.1 7.2 11/16/23 11/16/23 Turbidity Sample Type: Surface Water Client ID: Lake 4 Sample Time: 11/15/23 09:05 ACT Lab No.: CF08062 **Analysis Date** Unit Method No. Result Start End Parameter Pres/Abs Absent Golden Algae 11/16/23 11/16/23 P/C Microscopy mg/L as O2 11/16/23 11/16/23 SM4500 O G 8.4 Oxygen, Dissolved Field SU 8.3 SM4500H+ B 11/16/23 11/16/23 pH, Field С SM2550 B 19.2 11/16/23 11/16/23 Temperature, Field 11/16/23 11/16/23 180.1 8.1 NTU Turbidity

Client ID:	Lake 5
ACT Lab No.:	CF08063

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

	Analysis	Bate			
Parameter	Start	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	С
Turbidity	11/16/23	11/16/23	180.1	9.8	NTU

RESULTS

Sample Type: Surface Water Client ID: Lake 6 Sample Time: 11/16/23 09:15 ACT Lab No.: CF08064 **Analysis Date** Unit Start End Method No. Result Parameter Pres/Abs Absent 11/16/23 11/16/23 P/C Microscopy Golden Algae mg/L as O2 8.7 11/16/23 11/16/23 SM4500 O G Oxygen, Dissolved Field SU 8.3 11/16/23 11/16/23 SM4500H+ B pH, Field С 19.3 11/16/23 11/16/23 SM2550 B Temperature, Field NTU 180.1 7.4 Turbidity 11/16/23 11/16/23 Sample Type: Surface Water Client ID: Lake 7 Sample Time: 11/16/23 09:25 ACT Lab No.: CF08065 **Analysis Date** Unit Method No. Result Parameter Start End Pres/Abs 11/16/23 11/16/23 P/C Microscopy Absent Golden Algae 8.6 mg/L as O2 SM4500 O G Oxygen, Dissolved Field 11/16/23 11/16/23 SU SM4500H+ B 8.6 pH, Field 11/16/23 11/16/23 С SM2550 B 19.7 Temperature, Field 11/16/23 11/16/23 NTU 10. 180.1 Turbidity 11/16/23 11/16/23 Sample Type: Surface Water Client ID: Lake 8 Sample Time: 11/16/23 09:30 ACT Lab No.: CF08066 **Analysis Date**

RESULTS

Parameter	Start	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	С
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, Ph.D. Laboratory Director la

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Aquatic Cons 1525 W. Univer	Aquatic Consulting & Testing, Inc. 1525 W. University Drive, Suite 106	<mark>g, Inc.</mark> 106													•	
Tempe, AZ 85281	Tempe, AZ 85281 400 024 0044 5223 400 024 0040			55				の液		U	Client Project Info:	roject	info:	6. (b)		
lab@aquaticconsulting.com	iax: 400-921-0049 nsulting.com			U	hain	Chain of Custody	Npo						Lake Do	1-8 M bson F	Lake 1-8 Monthly Monitoring Dobson Ranch Association	
AC&T Client Re	AC&T Client Reporting Information:	ïu		_								ample (Sample Containers	it Sala		
Dobson Ranch Association 2719 South Reyes Mesa, AZ 85202	ssociation											a Pres	sivation:		Paget of 1	
Attn: Fran Paqwl P: 4/80-831-8314	Attn: Fran Paqwlak, Community Manager P: 4/80-831-8314	lager			a angus					:stua				7-313	AC&T Laboratory Sample	
ü	Aw				(EHN)					p, O2	1000		(chu	11/2 2	Identification	
AC&T Sampler		Religion of the		I-Elec B+NOS	sinom		оәц4/І	dl - 9g gls nob	q		SO3 (24	(Hain) S	nyins) k a			
sample Location ID:	Date: Time:	Matrix:	Ţ.q				-	_	μnī			-	OSZH	Chier		_
Lake 1	11/16/23 840	SW		_				×	×	×	0		12	100	CF08059	-
Lake 2	1 850	SW						×	×	×	12	372	130		8060	-
Lake 3	900	SW						×	×	×	17			12	8061	
Lake 4	Sap	SW						×	×	×	17		26		8062	-
Lake 5	910	SW						×	×	×	22	2			8063	
Lake 6	915	SW						×	×	×	12				8064	-
Lake 7	1925	SW		_				×	×	×	22			3	8065	
Lake 8	× 930	SW	×				×	×	×	×	N	1	I	100	8060	
													-2.	100		
Project Locations	A C & T Sample Receipt:	le Receipt:	Course of	- (1. 8	1. RELINQUISHED BY	B BY.	and the second	11	1				RELIN	3. RELINQUISHED BY:	-
Dobson Ranch	Total # Containers:	8	Signature.	4	Jun	rout	Mar	111		Signature:	ture:					
PO#:	Received Intact:	(E) NO	Print Name:	A	dre	n/N	how	12	4	Print	Print Name:					_
Lakes Contract	# Bottles Preserved:	Non: 16	Date:	111	612	U Time:	10	43		Date:					Time:	-
Notes:	Samples On Ice:	YES	Property of		2	2. RECEIVED BY:	6Y:	alfad	Supply State	100			AL AL	4. RE(4. RECEIVED BY:	1
	Ice Type:	WET BLUE	Signature: M	e						Signature:	ture:					
	Sample Receipt	19°C	Print Name: M	I		-				Print	Print Name:					
			Date: 11	111116123	23	Time:	5 HO1	5		Date:					Time:	_

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				nple Type: Surface Water nple Time: 11/22/23 07:15		
	Analysi	s Date				
Parameter	<u>Start</u>	End	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 2 ACT Lab No.: CF08235				nple Type: Surface Water nple Time: 11/22/23 07:20		
	Analysi	s Date				
Parameter	Start	End	Method No.	MRL Result	Unit	<u>Analyst</u>
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 3 ACT Lab No.: CF08236				nple Type: Surface Water nple Time: 11/22/23 07:30		
	Analysi	s Date		-		
Parameter	Start	End	Method No.	MRL Result	Unit	Analyst
Parameter Golden Algae			<u>Method No.</u> P/C Microscopy	MRL <u>Result</u> 1 Absent	<u>Unit</u> Pres/Abs	<u>Analyst</u> FAA
	Start	End	P/C Microscopy			
Golden Algae Client ID: Lake 4	Start	<u>End</u> 11/22/23	P/C Microscopy	1 Absent		
Golden Algae Client ID: Lake 4	<u>Start</u> 11/22/23	<u>End</u> 11/22/23	P/C Microscopy	1 Absent		

Client ID: Lake 5				nple Type: Surface Water		
ACT Lab No.: CF08238			San	nple Time: 11/22/23 07:45		
	Analysi				1114	A 1 4
Parameter	<u>Start</u>	End	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 6				nple Type: Surface Water		
ACT Lab No.: CF08239			San	nple Time: 11/22/23 07:50		
	Analysi					A
Parameter	<u>Start</u>	End	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 7 ACT Lab No.: CF08240				nple Type: Surface Water nple Time: 11/22/23 07:55		
ACT Lab NO.: CF08240	Ameliat	a Data	001			
Parameter	Analysi Start	s Date End	Method No.	MRL Result	Unit	Analyst
					Pres/Abs	FAA
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Ples/Abs	C AA
Client ID: Lake 8				nple Type: Surface Water		
ACT Lab No.: CF08241			San	nple Time: 11/22/23 08:00		
	Analysi					A
Parameter	<u>Start</u>	End	Method No.	MRL Result	Unit	<u>Analyst</u>
Golden Algae	11/22/23	11/22/23	P/C Microscopy	1 Absent	Pres/Abs	FAA
Explanation of Terms:						
<u>Absent</u> = No golden algae*	were detec	ted in the s	submitted sample.			
<u>Present 1</u> = Golden algae* we						
				the submitted sample.		
				e in the submitted sample.		

RESULTS

*Prymnesium parvum or toxin producing related species.

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Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

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Tempe, AZ 85281 480-921-8044 fax: 480-921-0049 lab@aquaticconsulting.com		106					1					
400-321-0044 ta lab@aquaticcon	31 480 004 0040							Client Project Info:	oject Inf	ö		
	ix: 480-921-0045 sulting.com			Chain of Custody	f Custod	ĸ				ake 1-8 Dobson	Lake 1-8 Golden Monitoring Dobson Ranch Association	₽
AC&T Client Reporting Information:	orting Informatic	iuo						6 ** 0	Sample Containers # / Preservation:	iners ion:	Paget of 1	-
Dobson Ranch Association 2719 South Reyes Mesa, AZ 85202	sociation											
Attn: Fran Paqwla P: 4/80-831-8314	Attn: Fran Paqwlak, Community Manager P: 4/80-831-8314	nager									AC&T Laboratory Sample	ample
E: AC&T Sampler:	Ann		NOS	Elec onia (NH3)	!!	su sigae ; - ID + # Pheo	Measure Temp, O2	beviesen (einers) so	(Suffuric)	_	Identification	no
Sample Location ID:	Date: Time:	Matrix:	NO3+	I-NXT MmmA	E. Co			-) SONH	sjoßny	Other	
	1122/2715	SW				×		-	-	-	CE0823	5
Lake 2		SW				×		+			235	
Lake 3	7:30	SW				×		+			23(
Lake 4	052	SW				×		+			237	
Lake 5	345	SW				×		-			238	
Lake 6	750	SW			_	×		+			239	
Lake 7	1755	SW				×		1			246	<u>ں</u>
Lake 8	¥ 800	SW				×		+			n2	
Project Location:	A C & T Sample Receipt:	ie Receipt:		A. RELI	. RELINQUISHED BY:	H.	1	1		3. RELII	3. RELINQUISHED BY:	
Dobson Ranch	Total # Containers:	8	Signature:	mannes	WIND	1 W m	Signature:	ure:				
PO#:	Received Intact:	NO NO	Print Name:	In Row	1 MI	19VVA	Print Name	lame:				
Lakes Contract	# Bottles Preserved:	Non: 8	Date:	22/25	Time:	340	Date:				Time:	
Notes:	Samples On Ice:	YES	I	2. RI	2. RECEIVED BY:	1				4. RE	RECEIVED BY:	and the
	Ice Type:	WET BLUE	Signature: M	Q			Signature:	ture:				
	Sample Receipt Temperature	7006	Print Name:	5	-		Print Name:	Jame:				
) 3	Date:	C112111	Time:	1340	Date:				Time:	

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Bi-Monthly Lake Inspection DOBSON RANCH LAKES

Lake

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M

Date: BY:

 Decreting
 No service Operating
 No service Operating
 No service No service Mechanical No service Deperating 42-Operating issues Fountain Fountain Fountain Fountain Fountain Mormal
 Infestation Mormal
 Infestation Infestation Infestation Infestation Infestation Infestation activity Insect **a**-Mormal Anormal Normal **A**Normal the Normal Waterfowl No. 2 20 P density D 0 No. (3) No.A No/A No. No/A No.A No/A No. No/A No. Distress behavior Distress Distress Distress Distress Distress Distress Distress Fish Dermal Normal Normal Normal Mormal Mormal **Mormal** Dead _ Dead _ Dead Dead Dead Dead Dead Submerged weeds □ Présent □ Absent Present
 Absent Present Present Dresent Present Present Dresent **Absent Absent** 中 Absent Absent Absent **Absent** Suspended Suspended Suspended Suspended Suspended Suspended Suspended Floating
 Bottom
 Attached Floating
 Bottom
 Attached Attached □ Floating □ Bottom Attached Attached Algae Attached Attached Eloating Eloating Eloating Eloating Bottom Bottom Bottom Bottom SDz B.G. NTU SDz <u>8.4</u>NTU SD2 8.1 NTU SDz 76 NTU Q.2-NTU SDz S.S.NTU 12.0NTU SDz SDz Clarity €. Su 8.4 su 83 su 8 Jsu 8∂_su SU 8 d su <u>8,3 mg/L</u> 8.3 su Hd 89 8,8 mg/L gO_{mg/L} Ir B B mar d D mg/L 8,7_{mg/L} 8.7 mg/L oxygen Dis. 205 c Temp M2c 19.5 C 19.0 c 192c 60% C 83

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Notes and recommendations for treatment/operation:

Le Operating Aerators

□ Infestation

No.A

Suspended

Eloating

□ Bottom

SDz 412MTU

8.5 mg/L

20.3 c

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Dead

Date: 11/16/23 By:

> DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Mechanical issues	Fountain Deperating No service	Fountain Deperating Do service	Foundain Poperating	Fountain o Operating □ No service			Fountain	Aerators
Meo	Fountain Doperation No sen	Fountain	Fountain	Fountain Operat No ser				Aer
Insect activity	u Normal □ Infestation	□ Infestation	□ Infestation	Anormal Infestation	 Mormal Infestation 	□ Infestation	b Mormal □ Infestation	D Mormal Infestation
Waterfowl density	No. P	No. No/A	No. EZ No/A	No. No/A	No. Z	No. 200	No/A	No. 14 No/A
Fish behavior	□ Distress	Distress	□ Mormal □ Distress □ Dead	Distress	Distress	Distress	□ Distress □ Dead	Distress
Submerged weeds	□ Present ≜ Absent	□ Present erAbsent	਼ Present ਡ`Atosent	□ Present 교Absent	□ Present µAbsent	□ Present	ur Present	ar Present □ Absent
Algae	 Suspended Floating Bottom Attached 	□Suspended □ Floating □ Bottom □ Attached	 Suspended Floating Bottom Attached 					
Clarity	SDz <u>6-(</u> NTU	SDz <u>4.5</u> NTU	SDZ 7.2.NTU	SD2 BI NTU	SDZ 9.8 NTU	SDZ 74 NTU	SDz <u>(c.</u> ŭntu	UTN SDZ
Hd	<u>83</u> u	$\frac{\partial}{\partial \cdot} \frac{2}{2} \delta \mathbf{U}$	BZSU	<u>8.3</u> u	mg/L 82	mg/r 8.2su	8.5su	_mg/L BU
Dis. oxygen	<u>By</u> mg/L	<u>Ø, </u> mg/L	Ø ∫ mg/L	BUL BZN	B mg/L	00	8.6 mg/L 8.5su	õ
Temp	19.4c	192c	<u>19.3</u> c	MDC	<u>196</u> c	1 <u>4.3</u> c	197 c	(d'c
Lake	-	ъ	e	4	2	9	~	ω

Notes and recommendations for treatment/operation: