

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

Lic. No. AZ0003

15 July 2020

Ms. Debbie Tribioli
The Oasis at Anozira
c/o Kinney Management Services
6303 South Rural Road
Tempe, Arizona 85283

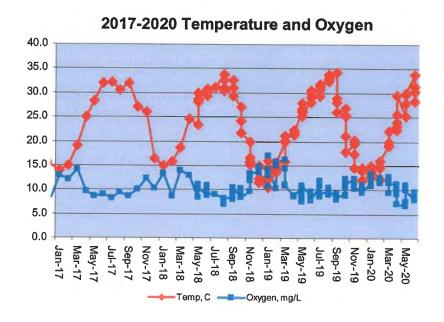
Ref: Oasis Lake, June 2020

Dear Ms. Tribioli:

The following report summarizes water quality data collected for Oasis Lake on 03 June 2020. Similar data have been reported each month and are used in this report to generate the graphs that are used for tracking changes in water quality. The report includes field data sheets summarizing weekly lake and mechanical system conditions during the month.

Chemical and Physical Composition

Temperature, Oxygen, and pH: Water temperature increased to 33.8 C (93 F) and the dissolved oxygen concentration was over 100 percent saturation (7.9 mg/L). Operation of the floating fountains, as well as the trial nanobubble oxygenation system, helped maintain dissolved oxygen at a level that was satisfactory for the fishery.

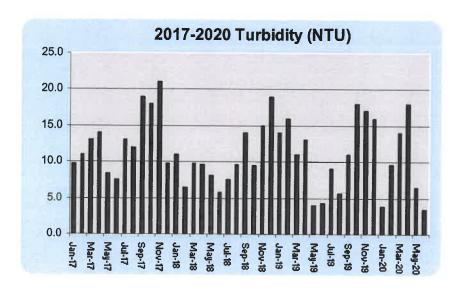


The table below shows the USEPA criteria for dissolved oxygen in warm water fisheries.

Criterion	Early life stages	Other life stages
Daily mean	>6.0	>4.0
Daily minimum	>5.0	>3.0

Water temperature tolerance varies among fish species. However, the maximum weekly temperature tolerance of most common urban lake fish species is 32 to 35 C.

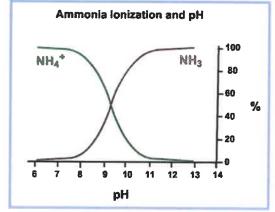
Turbidity: The turbidity of the lake water continued to decrease (3.5 NTU). Water turbidity is impacted by algae density and dissolved and particulate matter in the water, including storm water runoff and dye that is periodically added for algae and weed management. As turbidity increases, clarity decreases. The trend shows continued improvement in lake clarity.



pH: The lake water pH varied, as typical, from 8.7 to 9.2 SU during the month. Water pH is influenced by the chemical makeup of the water and the amount of algae in the lake. In a very simplified explanation for the role of algae, carbonic acid in the water is formed from dissolution of carbon dioxide. Carbonic acid tends to make the water more acidic and pH

decreases. However, algae utilize carbon dioxide during photosynthesis during daylight, making less carbon dioxide available to form carbonic acid, and pH increases. The more algae present, the greater the increase in pH that usually occurs. Data indicate that pH was similar to measurements last month. pH changes may also result from differences in SRP canal feed water composition.

High pH can be problematic in terms of toxicity if high concentrations of ammonia are present in the water. Ammonia is in equilibrium between two forms;

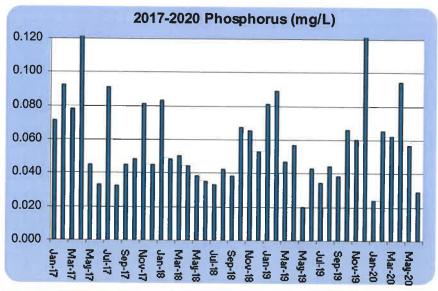


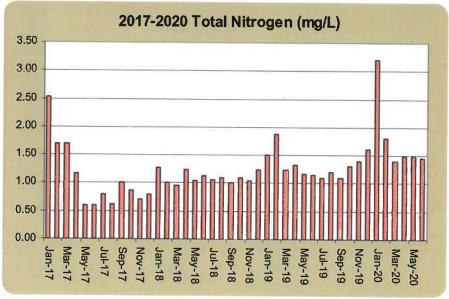
ammonium ion and ammonia gas. At pH concentrations above 9.0 SU and a water

temperature increases, ammonia converts to the gas which is toxic to many aquatic organisms. At the measured water temperatures and pH values, ammonia toxicity could occur. However, no signs of fish stress were observed.

Nutrients: Nitrogen and phosphorus are the primary nutrients that stimulate algae and submerged plant growth. Phosphorus is typically the nutrient that dictates how much plant growth can be sustained in a lake. Usually if the total phosphorus concentration is below 0.030 mg/L, low levels of suspended algae occur. A nitrogen concentration of about 10 to 15 times the phosphorus (0.30–0.45 mg/L) is typically needed to support algal growth.

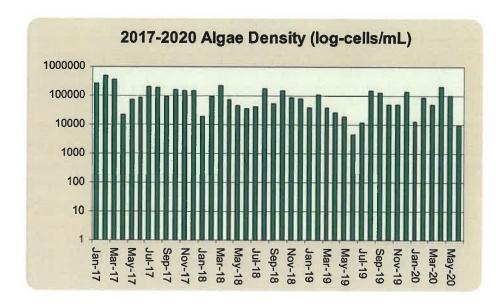
The phosphorus concentration continued to decrease (0.029) mg/L as P. The total nitrogen concentration was stable at 1.45 mg/L as N. Nitrate, immediately available to algal cells, was at a low concentration of 0.05 mg/L. A decrease in nutrient concentrations was evident and a corresponding decrease in algae growth would be expected and occurred.



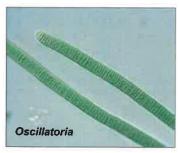


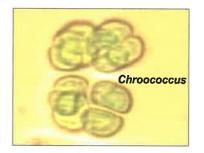
Biological Composition

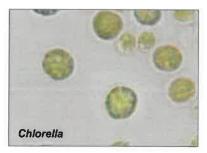
Phytoplankton (algae): The amount and types of algae in a lake dictate the aesthetic and operational quality of the water. Algae density affects the clarity and color of the water, two very important aesthetic criteria. The species composition dictates the form of growth observed; floating mats, suspended cells, stringy attached filaments, etc. It also impacts the choice, frequency, and dosage of herbicides used for water quality management.



As predicted, the total algae density in the lake decreased to 8.94 X 10³ cells per mL, a density considered low to moderate for an urban reservoir in metro-Phoenix. Often-problematic bluegreen (Cyanophyta) algae (*Oscillatoria*, *Chroococcus*) comprised about 32 percent of the total assemblage. The dominant alga was again, *Chlorella*, a generally benign green (Chlorophyta) unicell.







Golden algae were not detected. The golden alga (*P. parvum*), produces toxins that rupture unprotected cells. The toxin release is believed to benefit golden algae by killing other species of algae, thereby making resources (nutrients) more available to the golden algae population. Unfortunately, the cells of fish gills are also unprotected because that is where oxygen absorption occurs. Thus, the toxin also results in asphyxiation of fish. Susceptibility to the toxin varies amongst fish species.



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 life cycle is shown diagrammatically below. 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 to consume the larvae and/or application of bacterial or chemical larvicides. Because fish have not been stocked for three years or more, a maintenance stocking proposal has been presented to the Board. Action has been delayed because of golden algae and lake wall repairs.







Few adult midge flies were detected during the month.

Fishery: No fish losses were observed or reported.

Waterfowl: Ducks and geese can be a beautiful sight on a small urban pond or lake. They seem to make the lake look more like a natural lake than an artificial reservoir. They are fascinating creatures. However, when ducks and geese become too numerous, several lake management and aesthetic problems can develop. These problems are listed below.

- Bird wastes are unattractive and cause slippery conditions.
- Cleaning waste from sidewalks and turf is an additional maintenance item.
- Geese and other waterfowl can become aggressive toward humans.
- Waterfowl can damage turf areas.
- Waterfowl add nitrogen and phosphorus to the water.
- Bird wastes contain bacteria that are a health risk to humans and pets.
- Diving birds consume fish that are stocked in the lack for management purposes.





Arizona Game and Fish Department has developed criteria for waterfowl on small urban lakes (see table). Based on the Arizona Game & Fish Department scale, the lake condition in terms of waterfowl has remained in the "good to excellent" category.

Problematic Canada geese were observed during the month. Canada geese can destroy turf and, along with other birds, contribute fecal matter to the common areas and water. Cormorants, diving birds that feed on small fish, were not seen. See photos above.

Ranking	Waterfowl Density
Excellent	<3/acre
Good	3-4/acre
Fair	5-6/acre
Poor	>6/acre

Bacteria

In terms of public health protection, the *E. coli* bacteria concentration was relatively low (20 per 100 mL) and met incidental or partial body contact (PBC) and full body contact (FBC) recreational standards. The table below displays the numeric standards from the State Water Quality Standards (R18-11-109 A; 2016).

Designated use	E. coli single sample max. no/100 mL
Full body contact (swimming)	235
Partial body contact (boating, fishing)	575

Mechanical Systems and Field Observations

Weekly field inspection forms are attached to this report. In-lake and entry fountains and nanobubble aeration systems operated during the month. Issues with some of the nanobubble discharge lines continued. Oxygen generator and pump appeared to be operating properly.

Endothall and peroxide-based algaecide applications were made, as needed, to the three entry fountains to reduce algae growth on the wetted rock surfaces.

Lake Report Card

The water quality data are summarized on the attached Oasis Lake Report Card. Each salient parameter has been qualitatively evaluated and then assigned a numeric value for quantitative comparison and tracking purposes. The June score improved to 47 and remained in the "excellent" range.

Report card scores for the past three years have been graphically summarized below. Polynomial regression analysis (black line) still indicates a somewhat cyclic pattern. Linear regression analysis (red line) indicates and overall increasing trend in score.



Respectfully,

AQUATIC CONSULTING & TESTING, INC.

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

Laboratory Director





LABORATORY REPORTS



FIELD INSPECTION FORMS



PESTICIDE APPLICATION DOCUMENTS

OASIS LAKE REPORT CARD

DATE OF EVALUATION:

PREVIOUS EVALUATION:

CONDITION EXCELLENT Jun-20 SCORE

4

47

SCORE CONDITION EXCELLENT May-20

G005 3 pts

2 pts

FAIR

1 pt

POOR >20

11-20

5-10

Ŝ

EXCELLENT

RATIONALE

RESULT

3.5 7.9

Dissolved oxygen (mg/L)

Furbidity (NTU)

CONDITION

Nitrogen, total (mg/L)

4 pts

SCORE

4 4

<4.0

5.6-6.9

>7.0

aquatic life, sediment nutrient

aesthetics

release, odors

>2.0 4.0-5.5

0.5-1.0

<0.5

algae and macrophyte growth

1.45

algae and macrophyte growth

0.029

Phosphorus, total (mg/L)

Algae density (no./mL)

N

4 4

1.1-2.0

0.06-0.10

>0.10

5x10⁴ - 9x10⁴

<5 x 10⁴ <0.03

aesthetics

 8.94×10^{3}

0.03-0.05

>5 x 10⁵ $1 \times 10^5 - 5 \times 10^6$

floating mats blue-greens; common

greens; no floating mats

aesthetics, treatability

Green unicells

4

>20%

blue-greens; no floating 11-20% mats floating mats diatoms; no 8.0-8.5 <10%

8.6-9.0

6.5-8.0

swimming, fishery, ammonia

8.7 20

E. coli bacteria (#/100 mL) avg.

₹

Macrophytes (% cover)

pH (SU) avg.

Algae form (dominant)

aesthetics, boating

<20

public health protection

none

N 4

>9.0

moderate 81-125

nuisances nuisances 21-80 minor

no nuisances

quality of life

no nuisances

significant nuisances

>125

4

3

>10

2-5

7

nutrient and bacteria loading

N

Waterfowl (no. per acre)

Midge flies

6-10

before dawn; fish piping

some fish

no fish piping; no fish kills

recreation, aesthetics

normal

Fishery

fish piping common; fish kills common

occasional fish piping, gulping; no fish kills

≅ ≣S

patches of salt deposits and algae scums numerous deposits and some white

scnms

no evidence of salt crusts or algal scums

aesthetics

limited edge

Shoreline/banks

growths

4

shore covered

most of lake

with crusts or

Good

Fair

36-41

42-48

SCORING KEY:

30-35

Poor

Definitions: Ratings

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

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. Piping: Act of fish coming to surface of water and capturing a bubble of air in their mouth; a sign of low oxygen concentrations. N/A: not applicable; insufficient data or too early in development of lake (an arbitrary 3 rating is provided for these items). Macrophyte: Large plant, observable without the aid of a microscope, that may be floating, submerged or emergent. Plankton: Organisms of relatively small size that have relatively small powers of locomotion or that drift in the water. Midge: Small, flying, non-biting "gnat-like" insect whose larval stage exists in the lake sediments (bloodworm) Phytoplankton (algae): Microscopic plant fraction of the plankton community.

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



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LABORATORY REPORT

Client: Oasis at Anozira

c/o Kinney Management Services

6303 S. Rural Road Tempe, Arizona 85283

Attn: Debbie Tribioli

Date Submitted: 06/03/20

Date Reported: 07/14/20

Project: Monthly Lake Monitoring

RESULTS

Client ID: Lake Sample Type: Surface Water ACT Lab No.: CC04479 Sample Time: 06/03/20 12:00

	Analys	_ Analysis Date							
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	Unit				
Algae Count	06/30/20	06/30/20	SM 10200 F	See Attached	cells/mL				
Algae Identification	06/30/20	06/30/20		See Attached					
Golden Algae	06/03/20	06/03/20	P/C Microscopy	Absent	Pres/Abs				
Oxygen, Dissolved Field	06/03/20	06/03/20	SM4500 O G	7.9	mg/L as O2				
pH, Field	06/03/20	06/03/20	SM4500H+ B	8.7	SU				
Temperature, Field	06/03/20	06/03/20	SM2550 B	33.8	С				
Nitrate + Nitrite - N	06/06/20	06/06/20	SM4500NO3 E	0.05	mg/L as N				
Phosphorus, Total	06/25/20	06/25/20	365.3	0.029	mg/L as P				
Total Kjeldahl Nitrogen	06/09/20	06/09/20	SMNorg C,NH3 C/D	1.4	mg/L as N				
E. coli, Colilert	06/03/20	06/04/20	SM 9223 B	20	MPN/100 mL				
Turbidity	06/03/20	06/03/20	180.1	3.5	NTU				

Reviewed by:_

Frederick A. Amalfi, Ph.2 Laboratory Director

ALGAE IDENTIFICATION

AC&T Lab No.	CC04479	Data Callantad	00/00/00	
	CC04479	Date Collected	06/03/20	
Client I.D.	Oasis	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		ms: u=unicell; c=co	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	chi-f			
Ankistrodesmus	chl-u				Mougeotia	chl-f			
Aphanocapsa	cyn-c				Navicula	bac-u	1	94	1.05%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f	25	2352	26.32%
Cephalomonas	chl-ug				Pandorina	chl-cg			
Characium	chl-u				Pediastrum	chi-c			
Chlamydomonas	chl-ug	1	94	1.05%	Peridinium	pyr-ug			
Chlorella	chi-u	50	4704	52.63%	Phacotus	chl-ug			
Chlorococcum	chl-c				Phacus	chl-ug			
Chroococcus	cyn-c	5	470	5.26%	Pinnularia	bac-u			
Chroomonas	crp-ug				Pithophora	chl-f			
Closteridium	chl-u	2	188	2.11%	Prymnesium	hap-ug			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	7	659	7.37%
Crucigenia	chl-c				Schroederia	chl-u			1.0170
Cyclotella	bac-u				Selanastrum	chl-u			
Cylindrospermopsis	cyn-f				Sphaerocystis	chl-c			
Cymbella	bac-u	1	94	1.05%	Spondylumorum	chl-c			
Denticula	bac-u	1	94	1.05%	Spirulina	cyn-f			
Dinobryon	bac-c				Stauroneis	bac-u			
Dunaliella	chl-u				Stephanodiscus	bac-u			
Epithemia	bac-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	94	1.05%
Golenkinia	chl-c				Synura	cry-cg			11.0070
Gomphonema	bac-u				Tetraedron	chi-u	1	94	1.05%
Gonium	chl-cg				Tetrastrum	chl-c			110070
Gonyaulax	pyr-ug			$\overline{}$	Trachelomonas	eug-ug			
Gyrosigma	bac-u				Vaucheria	chl-f			
Hydrodictyon	chl-c				Volvox	chi-cg			
.yngbya	cyn-f				Zygnema	chl-f			
Melosira	bac-f					27.37			
Meridion	bac-u								
Merismopedia	cyn-c								

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

8.94E+03

check 100.00%

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Production in the

OASIS AT ANOZIRA

	PECTION FORM (loc/lists&forms)
Aeration System Operation	Lake Surface
operational □ Problem	□ Lake surface cleaning
Details:	
Floating Fountains West Details:	
operational in Troblem Betails.	
Pump house bousekeeping beaks	s □ ventilation □ lighting Notes
Compressors operational Problem	n Details:
Pumps operational problem	n Details:
Entry Fountains Elliot North: poperational a Screens cleared	Problem Details: Hydrotho
Elliot South: poperational Screens cleared Los Feliz: operational Screens cleared	□ Problem Details:
Monthly Chemistry & Biology	
Dissolved oxygen Pemperature PH Algae ID and count Ammonia-N Organic N (TKN) Phosphorus Turbidity E. coli Golden algae (seasonal)	N B S

OASIS AT ANOZIRA

Date: 6/02-0 By:	FIELD INSPECTION FORM (wpdoc/lists&forms)
Aeration System Operation	Lake Surface
□ operational □ Problem	□ Lake surface cleaning
Details:	
Floating Fountains West	East South
Pump house	keeping □ leaks □ ventilation □ lighting Notes
Compressors operation	onal □ Problem Details:
Pumps operati	onal □ Problem Details:
Entry Fountains	111/7
Elliot North: poperational p	Screens cleared - Problem Details: Hydrotholphyco
Elliot South: perational	Screens cleared Problem Details:
Los Feliz: perational	Screens cleared Problem Details:
Monthly Chemistry & Biology Dissolved oxygen Temperature pH Algae ID and count Ammonia-N Organic N (TKN)	W B
□ Organic N (1KN) □ Phosphorus	s



□ Turbidity □ E. coli

□ Golden algae (seasonal)



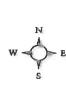
OASIS AT ANOZIRA FIELD INSPECTION FORM (

	1/1-1-
Date:	6/1/20
Ву:	frin

□ Phosphorus □ Turbidity □ E. coli

□ Golden algae (seasonal)

Date: By:	<u> </u>	onstationis)	
Aeration System O	peration	Lake Surface	
operational 🗆 P	roblem	□ Lake surface cleaning	
Details:			
Floating Fountains			
□ operational □ P	roblem Details:		
Pump house	☐ housekeeping ☐ leaks	□ ventilation □ lighting Notes	
Compressors	□ operational □ Problem	Details:	
Pumps	operational 🛭 Problem	Details:	
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□ Algae ID and coun□ Ammonia-N	t		
□ Organic N (TKN)	w 〈	D-B	J.





OASIS AT ANOZIRA FIELD INSPECTION FORM

	PECTION FORM (c/lists&forms)
Aeration System Operation	Lake Surface
□ operational □ Problem	□ Lake surface cleaning
Details:	
Floating Fountains West East South perational Problem Details:	
Pump house	□ ventilation □ lighting Notes
Compressors operational Problem	Details:
Pumps perational problem	Details:
Entry Fountains	
Elliot North: [Operational Screens cleared]	□ Problem Details: Hydrothol
Elliot South: operational descreens cleared	□ Problem Details:
Los Feliz: operational Screens cleared	□ Problem Details:
Monthly Chemistry & Biology Dissolved oxygen Themperature PH Algae ID and count	

- □ Ammonia-N
- □ Organic N (TKN)
- □ Phosphorus
- □ Turbidity
- □ E. coli
- □ Golden algae (seasonal)







AQUATIC CONSULTING & TESTING, INC. 1525 West University Drive, Suite 106

Tempe, Arizona 85281

Phone: 480-921-8044 Fax 480-921-0049

PESTICIDE TREATMENT NOTICE & RECORD

Client: The Oasis at Anozira

Attn: Debbie Tribioli

The Oasis at Anozira

C/O Kinney Management Services

6303 South Rural Road

Tempe, Az 85283

Location: Entry features (June 2020)

Date: 06-03-20 Time: 09:00 Conditions: X clear pt cloudy overcast 06-10-20 cold X mild mild 06-17-20 06-20-20

Material:	Reg. No. (*restricted)	Tot. Qty:	Acres/Volume:
Hydrothol	4581-174	2 qt	0.03 Aft
Target Pest:	algae	Degree of infestation	ant low

Degree of infestation: low

Application method/calculations:

5.0 G/Aft x 0.03 Aft = 0.15 Gal (1..2 pt) x 3 features \approx 2 qt per week

Dosage/rate 3.0 ppm Percent active ingredient: 53% endothol

> Applicator: Murrett Cert. No. 061093

Remarks/follow-up: algae

Precautionary Statement:

Warning-Pesticides can be harmful. Keep children and pets away from pesticide applications until dry, dissipated, or aerated. For more information contact Aquatic Consulting & Testing, Inc. at 480-921-8044 and ask for Dr. Rick Amalfi. AC&T License No. 4418 F. A. Amalfi QP#1360 Cert. No. 900496