

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JUNE 16, 2020 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Gerry Murawski
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Osage Beach, Greg Massey
Alderman, Lake Ozark, Judy Neels
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: May 19, 2020

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4. REPORTS

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Revenue Budget Analysis	11
Expenditure Budget Analysis	12
Income & Expense Summary	13
May Alliance Report of Operations	15-30
Approval of Flow Charts May 2020	

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

- A. Review of 2019 Joint Sewer Audit prepared by Gerding, Korte & Chitwood CPA's
<https://osagebeach-mo.gov/Archive.aspx?ADID=2449>
- B. Discussion on the Smith & Loveless Sales Agreement on the Pista Grit Chamber assembly.
31-32

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE JULY 21, 2020 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – May 19, 2020

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, May 19, 2020 via virtual meeting.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Greg Massey - Present
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Public Works Director Michalik motioned to approve the meeting minutes of April 21, 2020 his motion was seconded by City Administrator Woods, and passed unanimously.

REPORTS:

The April Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Alderman Neels to approve the documents and pay the bills. Her motion was seconded by City Administrator Van Dee, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for April was 1.210 mgd. We had 5.2 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.5 mg/l and TSS of 2.9 mg/l respectively for April, which represents a 99.0% or better removal.

The MLSS average for both aeration basins was 5,371 mg/l. The total dry weight sludge inventory for April totaled 361,742 pounds. There was 25 tanker loads or 92,500 gallons of biosolids land applied for the month of April. There were 39 tanker loads or 107,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Resident Member Hamner to approve the Flow Chart for April. His motion was seconded by Public Works Director Michalik. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Public Works Director Michalik stated he went through the plant today, Gary was taking care of the plant by himself and everything at the plant looks good.

NEW BUSINESS:

- A. Report of action regarding the Headworks building replacement roof project. Per Gary Hutchcraft he sent out 4 bids on May 1, 2020 and only received 2 bids back. Above and Beyond Roofing came in at Standing seam \$43,875 plus \$50 sheet for plywood or Alternate Exposed Fastener for \$30,000 plus \$50 sheet for plywood with a 2 year labor and 45 year paint warranty. Missouri Builders Service came in at Standing Seam \$42,105 and Alternate Exposed Fastener \$33,684 with a 2 year labor and 20 year paint warranty. A motion was made to go with Above and Beyond Roofing with Alternate Exposed Fasteners for \$30,000 plus \$50 sheet for plywood by Public Works Director Michalik. His motion was seconded by Alderman Massey. Unanimous approval, motion passed.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:16 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
JUNE 16, 2020

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	43,241.56
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-
TOTAL	\$	43,241.56

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:			
Account	Check	Paid To:	Description: Amount:
4020			\$ -
4140			\$ -
TOTAL			\$ -

OPERATING FUND BILLS TO BE PAID:			
Account	Check	Paid To:	Description: Amount:
4000		Equipment Replacement Fund	Payment into ER Fund \$ 5,967.00
4020		Jani King	June \$ 195.00
4020		Menards	94526 Main for RAS Basement \$ 59.40
4020		Smart Printing Ctr.	90655 Ship RAS Meter \$ 14.32
4170		Alliance Water Resources, Inc.	June \$ 25,465.00
4175		Ameren MO	11673321 \$ 8,900.69
4175		Ameren MO	98041275 \$ 61.49
4176		AT&T	June \$ 78.66
4200		Gerding, Korte & Chitwood CPA	Audit 2019 \$ 2,500.00
TOTAL			\$ 43,241.56

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:			
Account	Check	Paid To:	Description: Amount:
TOTAL			\$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:			
Account	Check	Paid To:	Description: Amount:
4000			\$ -
4000			\$ -
4000			\$ -
4000			\$ -
TOTAL			\$ -



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FOCUSED ENERGY. For life.

Account Number 5580005920
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

AMOUNT DUE \$61.49

Due Date 07/01/2020

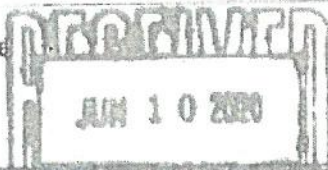
Current Detail for Statement 06/10/2020

Total Electric Charges \$61.49

Amount After Due Date \$62.41

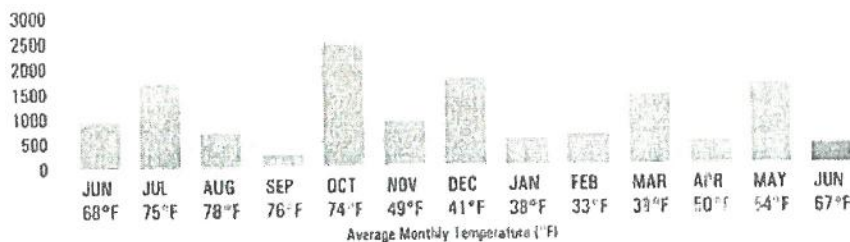
Total Amount Due \$61.49

Previous Statement \$151.71
\$151.71 transferred from 4580005832 at 3 ANDERSON RD, .



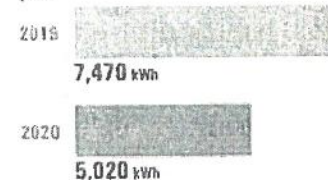
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 32.8% less than last year.



Usage from Jan-Jun for 2019 & 2020

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

GL Acct#: 46175
Signature: [Signature]
Date: 6/10/20



» See next page for service details.

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Page 1 of 2

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Amount Due	Due Date
\$61.49	July 01, 2020
Delinquent Amount After Due Date	Account Number
\$62.41	5580005920

Amount Enclosed \$

>000078 634023 0002 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1985
LAKE OZARK, MO 65049-1985

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

90633000 0055800059200 000000061490 000000061490



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Electric Service Details

Service from 05/07/2020 - 06/08/2020 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	05/07 - 06/08	32	Total kWh	Actual	20103.0000	20064.0000	39.0000	10.0000	390.0000
98041276	05/07 - 06/08	32	Peak kW	Actual	4.5160	0.0000	4.5160	10.0000	45.1600

Usage Summary

Total kWh 390.0000

Rate 2M Sm Gen Svc - 3 Ph w/Dmd

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Total Energy Charge	390.00	kWh	@ \$ 0.10430000	\$40.68
Customer Charge				\$19.99
Fuel Adjustment Charge	390.00	kWh	@ \$-0.00207000	\$-0.81
Energy Efficiency Investment Charge	390.00	kWh	@ \$ 0.00374300	\$1.46
Renewable Energy Adjustment	390.00	kWh	@ \$ 0.00044000	\$0.17
Total Service Amount				\$61.49
Total Electric Charges				\$61.49



Account Messages

Pure Power lets your home or business support wind power and other forms of renewable energy in Missouri and the Midwest. Learn more at AmerenMissouri.com/purepower

Auto Pay Makes Paying Bills Easier. To enroll, go to AmerenMissouri.com or call 1.800.552.7583 to request an enrollment form.

Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com.

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FOCUSED ENERGY. For life.

Account Number 4580005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD.,
LAKE OZARK, MO 65049

AMOUNT DUE \$8,900.69

Due Date 07/01/2020

Total Electric Charges \$8,900.69

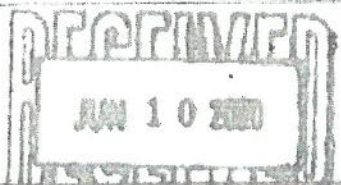
Amount After Due Date \$9,034.20

Total Amount Due \$8,900.69

Previous Statement \$4,589.65

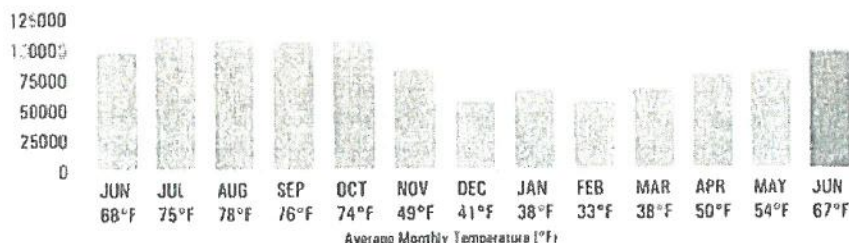
Total Payments \$4,741.36

Payment Received. Thank You.



Electric Usage History

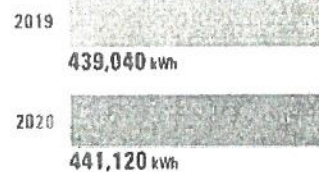
Electric Usage in Kilowatt Hours (kWh)



Average Monthly Temperature (°F)

Electric Usage Summary (kWh)

Your electric energy usage this year was about the same as last year.



Usage from Jan-Jun for 2019 & 2020

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

GL Acct#: 4675

Signature: Gary H. H. H.

Date: 6/10/20



See next page for service details.

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>000404 6340231 0002 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1985
LAKE OZARK, MO 65049-1985

Amount Due	Due Date
\$8,900.68	July 01, 2020
Delinquent Amount After Due Date	Account Number
\$9,034.20	4580005832

Amount Enclosed \$

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

20600000 0045800058302 000008900690 000008900690



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Electric Service Details

Service from 05/07/2020 - 06/08/2020 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	05/07 - 06/08	32	Total kWh	Actual	59747.0000	59146.0000	601.0000	160.0000	96160.0000
11673321	05/07 - 06/08	32	Peak kW	Actual	1.3960	0.0000	1.3960	160.0000	223.3600

Usage Summary

Total kWh	96160.0000	Peak kW	223.4000
Billing Demand	223.4000	Total Billing Demand	223.4000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Demand Charge	223.40	kW	@ \$ 5.40000000	\$1,206.36
Energy Charge/Hours Used	33,510.00	kWh	@ \$ 0.09690000	\$3,247.12
Energy Charge/Hours Used	44,680.00	kWh	@ \$ 0.07290000	\$3,257.17
Energy Charge/Hours Used	17,970.00	kWh	@ \$ 0.04910000	\$882.33
Customer Charge				\$95.29
Fuel Adjustment Charge	96,160.00	kWh	@ \$-0.00207000	\$-199.05
Energy Efficiency Investment Charge	96,160.00	kWh	@ \$ 0.00383900	\$369.16
Renewable Energy Adjustment	96,160.00	kWh	@ \$ 0.00044000	\$42.31
Total Service Amount				\$8,900.69
Total Electric Charges				\$8,900.69

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
May 26, 2020	\$4,741.36

Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com

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723 Main Street
Boonville, Missouri 65233
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04/30/20

LAKE OZARK - OSAGE BEACH
JOINT SEWER TREATMENT PROJECT
1000 CITY PARK WAY
OSAGE BEACH, MO 65065

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FOR PROFESSIONAL SERVICES:

AUDIT OF FINANCIAL STATEMENTS FOR THE
YEAR ENDED DECEMBER 31, 2019

TOTAL DUE \$2,500.00

C27289

ACCOUNTS UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A FINANCE CHARGE OF 1½% PER MONTH.

**MONTH-TO-DATE AND YEAR-TO-DATE
REVENUE/BUDGET ANALYSIS**

Account Number	Account Name	5/31/2020					Percent YTD
		2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 5/31/2020	2020 May Revenue	
3020	Osage Beach	480,784.67	475,091.53	473,000.00	198,980.88	39,582.66	42%
3010	Lake Ozark	69,215.30	74,908.46	77,000.00	30,185.80	6,250.68	39%
3030	Misc.	1,485.00	0.00	0.00	0.00	0.00	
3100	Interest	1,484.82	4,286.79	1,400.00	209.09	1.77	15%
3060	Waste Haulers' Fee	25,780.00	26,260.00	29,000.00	14,220.00	3,280.00	49%
Total Operating Fund		578,749.79	580,546.78	580,400.00	243,595.77	49,115.11	42%
E/R Fund Income		4,281.74	9,001.77	4,000.00	1,162.92	64.66	29%
TOTAL INCOME		583,031.53	589,548.55	584,400.00	244,758.69	49,179.77	42%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
5/31/2020

Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 5/31/2020	2020 May Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.00	71,606.00	29,835.00	5,967.00	42%
4020	*Maintenance & Repair	9,713.86	104,062.97	88,000.00	13,845.20	309.23	16%
4140	Insurance	18,475.25	18,761.00	19,200.00	19,770.00	0.00	103%
4150	Vehicle Repair/Maint	3,887.47	5,479.60	10,000.00	6,349.14	36.72	63%
4160	Haulers Fees to Contractor	8,000.00	0.00	0.00	0.00	0.00	0%
4170	Contract Management	319,010.64	299,592.00	308,580.00	127,325.00	25,465.00	41%
4175	Electric	79,533.37	73,276.87	75,000.00	19,878.82	4,741.36	27%
4176	Utilities Misc.	0.00	3,717.52	3,100.00	1,608.40	118.58	52%
4190	Bank Charges	24.00	176.00	75.00	16.00	0.00	0%
4200	Audit	2,300.00	2,400.00	2,500.00	0.00	0.00	0%
4240	Capital Purchases	0.00	145,247.00	0.00	0.00	0.00	0%
	Totals	482,548.76	694,316.96	578,061.00	218,627.56	36,637.89	38%
	**E/R Expenses	42,782.61	41,280.51	83,500.00	39,522.80	922.80	47%
	TOTAL EXPENSES	525,331.37	735,597.47	661,561.00	258,150.36	37,560.69	39%

*Maintenance & Repair

Auto Dialer Yrly Software Fee

500.00

Regular Maintenance

11,000.00

UV Spare Parts

10,000.00

Road and parking lot main

2,000.00

Chainlink fence repair

4,000.00

Box of BOD bottles

500.00

Sandblast & paint clarifier #2

60,000.00

-

88,000.00

FALL 2020

**Equipment & Replacement

Pista Grit Suction tube

5,500.00

RAS motor control ctr/elec panel

37,670.00

Replace lift station pump

8,000.00

Impeller & volute wear ring for Flygt pump

3,000.00

Ducking skimmer arm mechanism

12,000.00

Replace winch for pulling lift station pumps & skum

3,000.00

Rebuild Duck ng skimmer arm & arm supports

5,000.00

Replace wooden doors w/fiberglass

2,000.00

Repair/replace roof on headworks & other bldg

45,000.00

83,600.00

2019

OPERATING FUND INCOME AND EXPENSE SUMMARY
5/31/2020

Beginning Balance	272,262.43
Income - Osage Beach	39,582.66
Income - Lake Ozark	6,250.68
Income - Other	-
Income - Waste Haulers' Fees	3,280.00
Interest - Checking	1.77
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers to E/R Fund	(5,967.00)
Expenses	(30,670.89)
Ending Fund Balance	284,739.65
Central Bank - NOW Acct.	70,931.97
	-
CD First Bank of the Lake, 2/20/21 #101318432	103,807.68
CD First Bank of the Lake, 4/22/21 #101318433	110,000.00
	-
Outstanding Checks:	-
	284,739.65

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
5/31/2020

Beginning Balance	523,487.40
Interest - Checking	64.66
Income - CD Interest	-
Transfers to E/R Fund	5,967.00
Income - Miscellaneous	-
Expenses	(922.80)
Ending Fund Balance	528,596.26
First Bank of the Lake - Money Mkt.	112,395.85
CD Providence Bank, 8/20 #1268880	207,553.78
CD First Bank of the Lake, 2/20/21 #101318431	101,942.14
CD First Bank of the Lake, 07/30/21 #101318430	106,940.74
	-
Outstanding Checks:	(236.25)
	528,596.26



Settlement

200519-205764

Auction Date: 05/19/2020

Last Updated: 06/05/2020

Check payable to:

Lake Ozark/Ozark Beach Joint Sewer Board
John Olivarri
1000 City Parkway
Osage Beach MO 65065

Phone: 5733022000

Email: jolivarri@osagebeach.org

**Your settlement has been processed in accordance with the terms as outlined in your auction contract.
Additional auction details can be viewed anytime by logging into your Purple Wave account.**

Bidder	Item	Qty	Description	Commissions / Fees	Amount
--------	------	-----	-------------	--------------------	--------

106884	DF5122	1	1983 GMC 7000 slurry truck	0% commission G - Listing Fee Waived	\$4,500.00
--------	--------	---	-----------------------------------	---	------------

- 22,477 miles on odometer
- Caterpillar 3208 10.4L V8 diesel engine
- Automatic transmission
- Four wheel drive
- AC and heat
- PTO
- 12"L tank bed
 - 1,600 gallon capacity
 - 8" side pickup
 - 8" diameter rear discharge
 - In-cab controls
- Spring suspension
- Hydraulic brakes
- 48 x 25.00-20 front tires
- 66 x 43.00-25NHS tires
- GVWR 28,000 lbs
- Blows white smoke on startup

Transfer of ownership documentation will be a bill of sale.

1GDL7D1YXDVS29996

Lake Ozark-Osage Beach Joint Sewer Board
3 Anderson Rd
Lake Ozark, MO 65049

Bid total: \$4,500.00

Commission	Description	Rate	Subtotal
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**OUR
MISSION**

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management and financial oversight, and ensured regulatory compliance.

**Alliance Water
Resources,
Inc.**

**206 S. Keene
St.
Columbia, MO
65201**

(573)874-8080



REPORT OF OPERATIONS

**LAKE OZARK/OSAGE BEACH
Joint Wastewater Treatment Plant No. 1**

Month of May 2020

Submitted by Alliance Water Resources, Inc. for the

June 2020

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No. MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	2.9	2.6	N/A	0		0.60	< 4.8	< 1.0
Peak Day	6.2	3.9	7.7	0		2.00	< 4.8	< 1.0
Percent Removal	99.0	98.7	N/A	N/A		N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		1.1	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		6.0	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.612 MGD or 54% of Permitted flow with Lake Ozark contributing 13% of the total flow and Osage Beach contributing 87%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 118466 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

29,315 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 630,000 gallons with a level of 6.0 feet in Tank 1 and 8.0 feet in Tank 2.

WASTEHAULERS

The plant received 35 loads of septage during the month totaling 83,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- The sludge truck got a little hotter than we like seeing it last time we hauled so we called in our mobile mechanic Tom Irwin. He found that the radiator fan and the antifreeze reservoir tank needed replaced. He tried to find replacements but had no luck so we ask Larry Roemer if he could get us replacements and he did find it but is on backorder as of May 29, 2020.
- We started having problems with the RAS flow meter during memorial weekend. We called the manufactures tech support and troubleshot it with them, and they said for us to ship it back to them and they would fix or replace if needed. It is under warranty and should not cost anything but will know more when they get back with us.
- We also started having problems with the pista grit system on the 28th, so we troubleshot it and found the bladder in the red pinch valve had a leak in it so we have ordered a replacement and should hopefully have it by the second week of June.

SAFETY

- We conducted our monthly routine Safety Meeting on Electrical Safety, Electrical Safety – Arc Flash & Coronavirus Prevention in the Workplace on the 12th of May.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 4th of June.

MISCELLANEOUS AND RECOMMENDATIONS

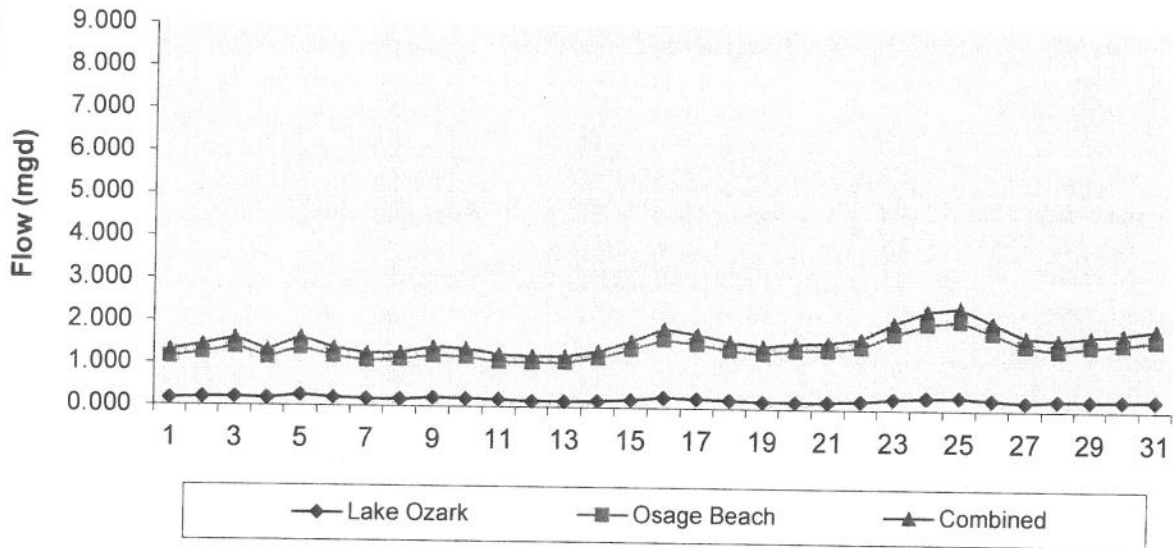
- We received an updated bid for the Pista Grit Chamber 4" suction lift tube assembly from Municipal Equipment Company which is the statewide rep for Smith & Loveless. We also received a sole-source letter from Smith & Loveless confirming that. The budget for this is \$5,500.00 and the bid came it at \$5,069.00 including freight. (see attachment)

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF May 2020

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-May	0	0.172	1.140	1.312	13.1	86.9	240	285	210	124	174	208
2-May	0	0.190	1.254	1.444	13.2	86.8						
3-May	0	0.201	1.400	1.601	12.6	87.4						
4-May	0.4	0.176	1.142	1.318	13.4	86.6						
5-May	1	0.249	1.376	1.625	15.3	84.7						
6-May	0	0.196	1.181	1.377	14.2	85.8						
7-May	0	0.169	1.080	1.249	13.5	86.5						
8-May	0.5	0.166	1.109	1.275	13.0	87.0	335	375	330	120	166	230
9-May	0	0.206	1.209	1.415	14.6	85.4						
10-May	0	0.193	1.180	1.373	14.1	85.9						
11-May	0	0.175	1.071	1.246	14.0	86.0						
12-May	0.2	0.143	1.059	1.202	11.9	88.1						
13-May	0.1	0.143	1.066	1.209	11.8	88.2	395	373	353	132	212	180
14-May	0.2	0.154	1.178	1.332	11.6	88.4						
15-May	1.0	0.189	1.392	1.581	12.0	88.0						
16-May	0	0.249	1.627	1.876	13.3	86.7						
17-May	0.25	0.228	1.527	1.755	13.0	87.0						
18-May	0	0.199	1.390	1.589	12.5	87.5						
19-May	0	0.170	1.311	1.481	11.5	88.5						
20-May	0	0.167	1.389	1.556	10.7	89.3						
21-May	0	0.178	1.401	1.579	11.3	88.7						
22-May	0	0.196	1.488	1.684	11.6	88.4	230	178	200	120	134	222
23-May	0.1	0.260	1.801	2.061	12.6	87.4						
24-May	0	0.304	2.040	2.344	13.0	87.0						
25-May	0.25	0.309	2.123	2.432	12.7	87.3						
26-May	0.2	0.253	1.837	2.090	12.1	87.9						
27-May	0.4	0.204	1.536	1.740	11.7	88.3	440	353	328	216	174	194
28-May	0.4	0.250	1.431	1.681	14.9	85.1						
29-May	0.3	0.241	1.536	1.777	13.6	86.4						
30-May	0	0.252	1.584	1.836	13.7	86.3						
31-May	0	0.261	1.680	1.941	13.4	86.6						
SUM	5.3	6.443	43.538	49.981								
AVG		0.208	1.404	1.612	13	87	328	313	284	142	172	207
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

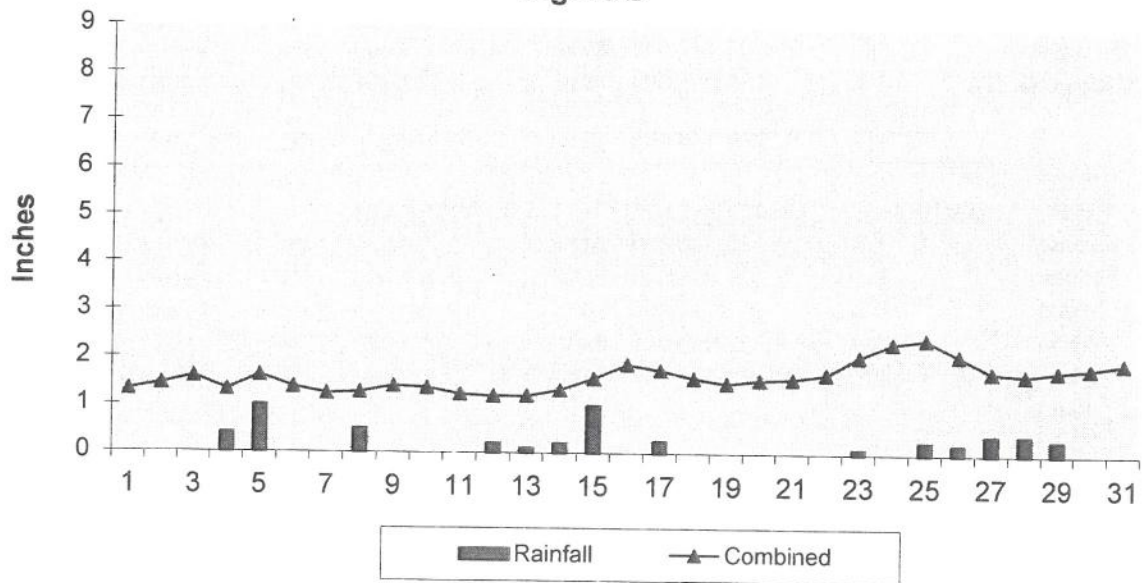
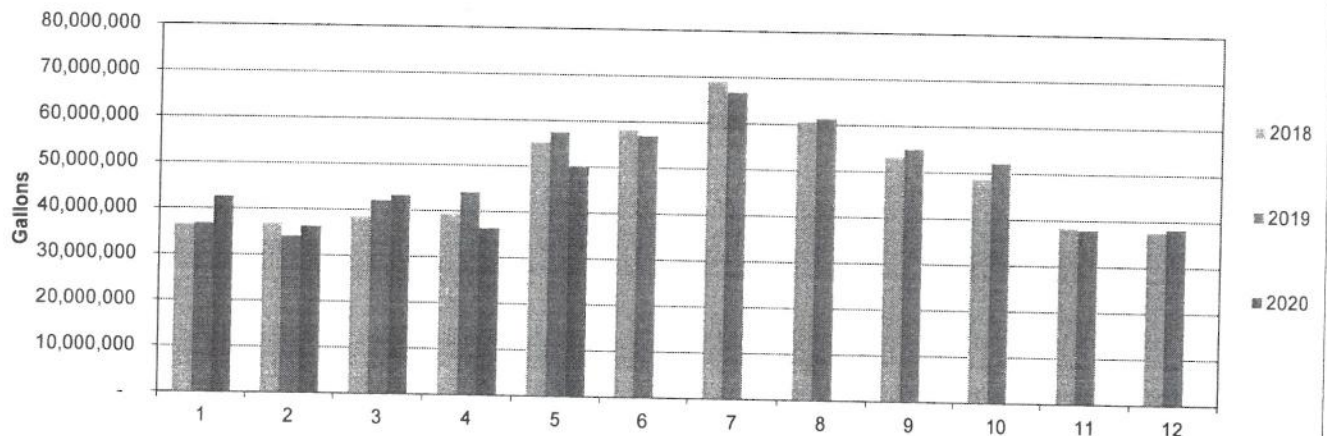


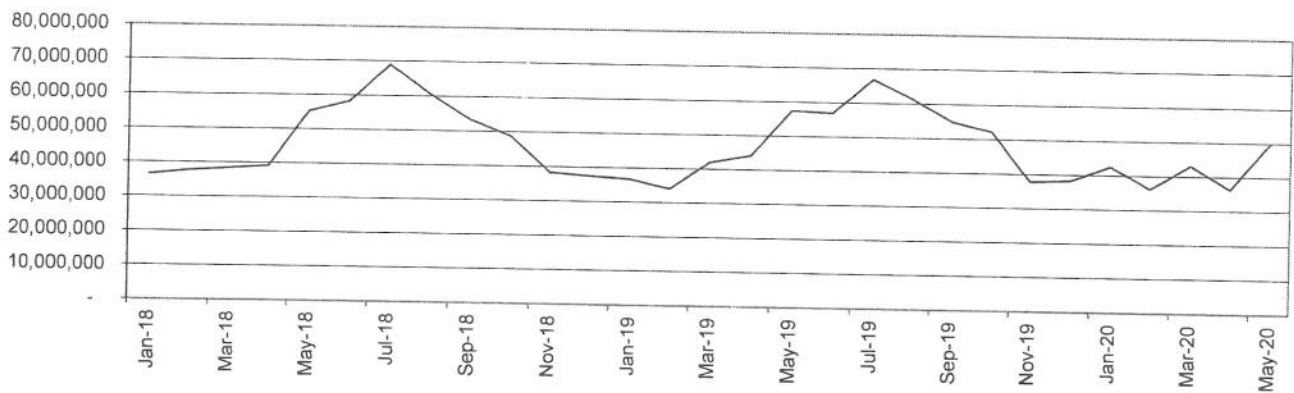
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2018</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%
<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June	6.0	49,051,000	86%	7,864,000	14%	56,915,000	100%
July	4.8	57,666,000	86%	9,132,000	14%	66,798,000	100%
August	6.0	53,074,000	87%	8,215,000	13%	61,289,000	100%
September	3.5	47,732,000	87%	7,165,000	13%	54,897,000	100%
October	11.1	44,971,000	86%	7,194,000	14%	52,165,000	100%
November	3.5	33,141,000	87%	4,779,000	13%	37,920,000	100%
December	1.8	33,575,000	88%	4,708,000	12%	38,283,000	100%
	63.2	504,112,000	86%	78,759,000	13%	582,871,000	100%
<u>2020</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%
February	3.6	31,279,000	86%	4,986,000	14%	36,265,000	100%
March	6.1	37,286,000	86%	5,888,000	14%	43,174,000	100%
April	5.2	31,967,000	88%	4,324,000	12%	36,291,000	100%
May	5.3	43,538,000	87%	6,443,000	13%	49,981,000	100%
June						-	
July						-	
August						-	
September						-	
October						-	
November						-	
December						-	
	27.9	180,876,000	87%	27,421,000	13%	208,297,000	100%

Monthly Influent Flow
Figure 3A

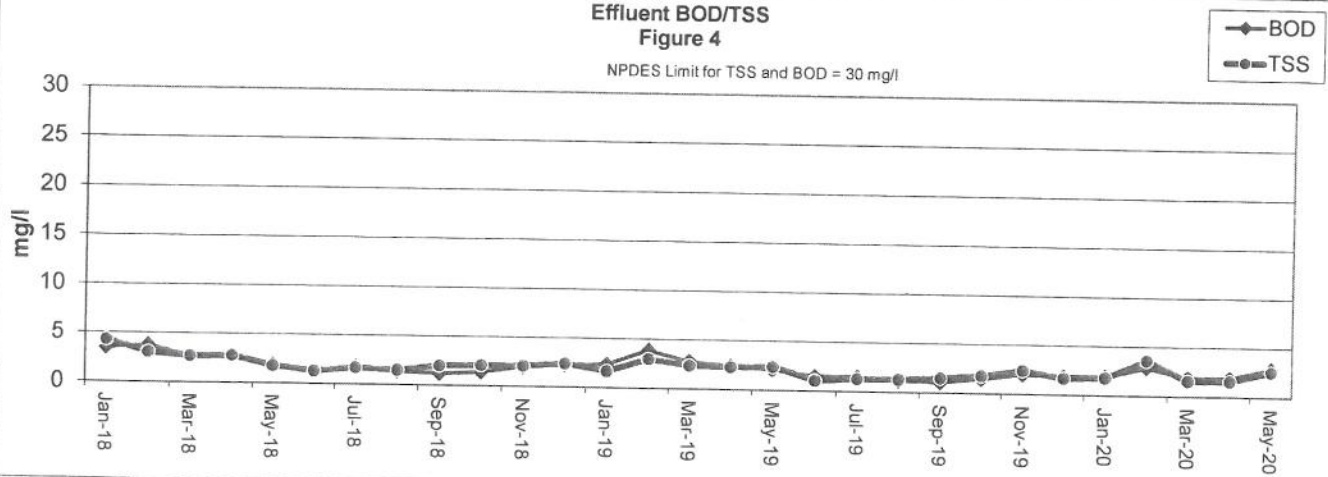


Monthly Influent Flow
Figure 3B

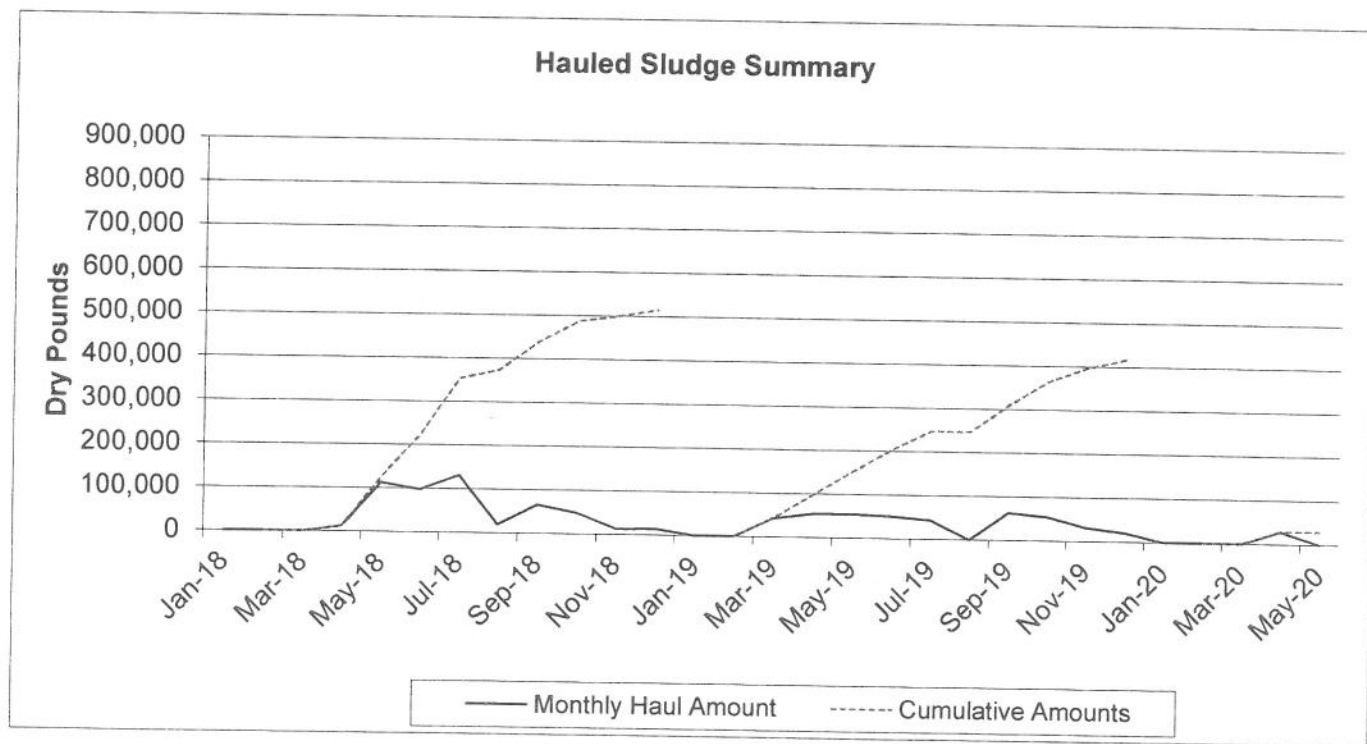
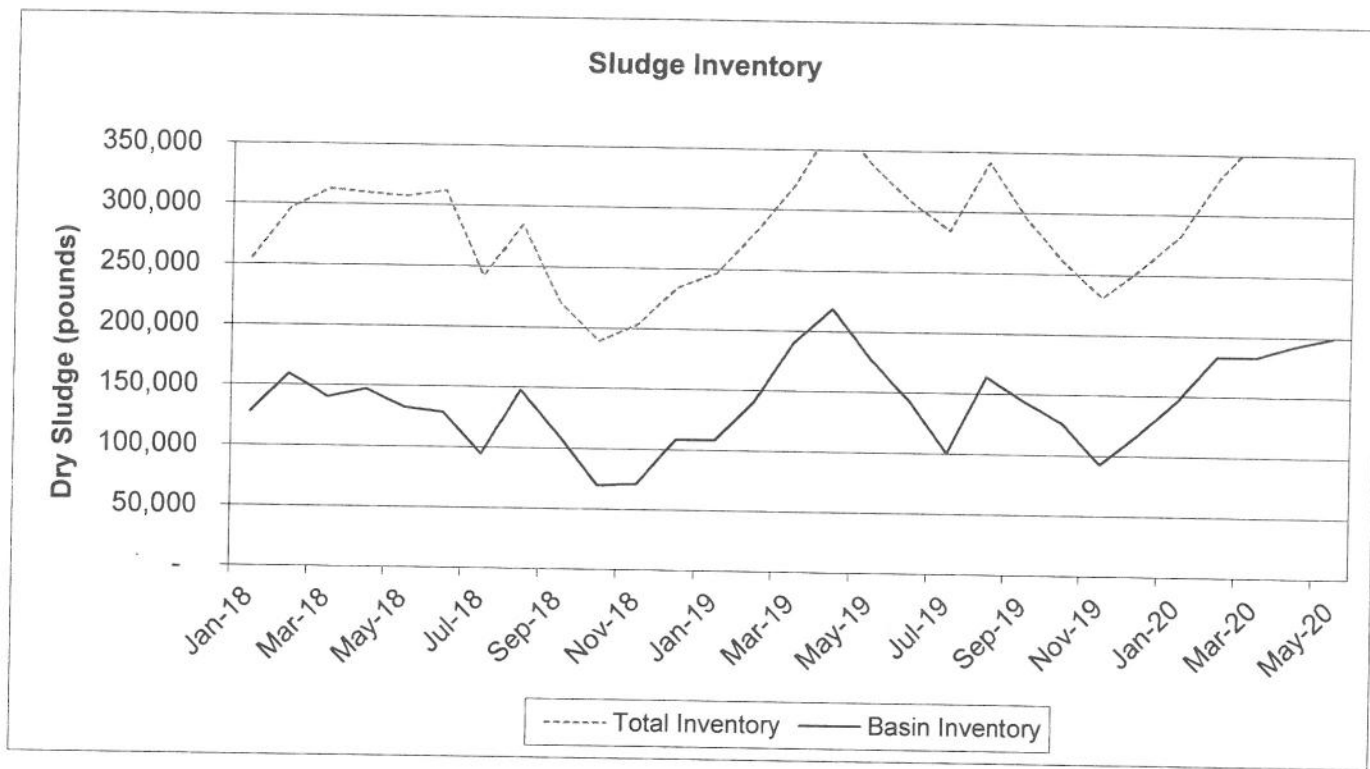


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



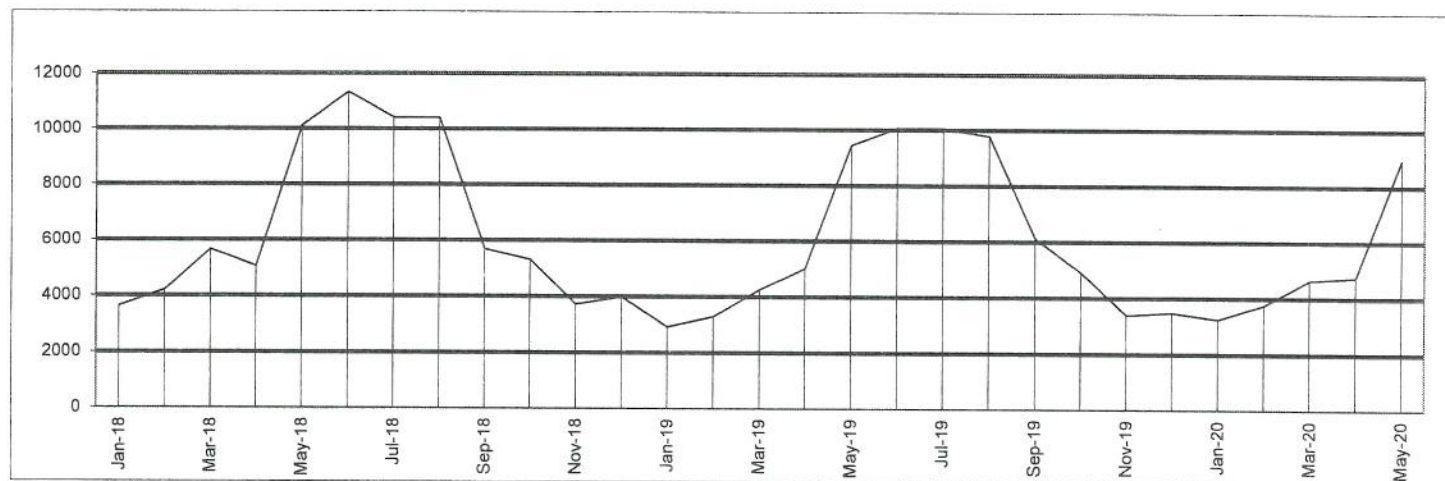
	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clarif #1	Clarif #2	Clarif #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-18	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Jul-18	126	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026	42	107,000
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132	45	113,500
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409	21	59,500
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809	8	21,500
Dec-18	14	51,800	14,688	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494	22	55,000
Jan-19	0	-	0	3.4%	-	5.0	3.5	0.0	382,500	108,462	1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874	19	46,500
Feb-19	0	-	0	3.4%	-	6.0	5.0	0.0	495,000	140,362	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503	31	79,500
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	585,000	189,462	0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033	9	21,500
Apr-19	39	144,300	53,940	4.5%	97,079	5.5	7.5	0.0	585,000	218,676	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923	23	61,500
May-19	49	181,300	54,866	3.6%	151,945	8.0	5.0	0.0	585,000	177,036	3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113	12	25,500
Jun-19	44	162,800	51,872	3.8%	203,817	7.0	3.0	0.0	450,000	143,381	2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267	19	47,500
Jul-19	37	136,900	43,633	3.8%	247,450	3.0	4.0	0.0	315,000	100,397	2.0	3.0	0.5	6,060	5,830	3,710,524	183,973	0.00595	284,370	36	84,000
Aug-19	0	-	0	3.8%	247,450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	5,660	5,680	3,763,810	177,982	0.00567	341,988	29	72,500
Sep-19	58	214,600	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00489	294,741	22	55,000
Oct-19	50	185,000	54,742	3.5%	364,679	7.5	2.0	0.0	427,500	126,498	2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00426	259,414	40	97,000
Nov-19	29	107,300	31,629	3.5%	396,308	3.5	3.5	0.0	315,000	92,853	3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,968	15	36,000
Dec-19	17	62,900	20,643	3.9%	416,951	6.0	2.0	0.0	360,000	118,146	1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044	14	32,000
Jan-20	0	-	0	3.9%	-	6.0	4.0	0.0	450,000	146,367	1.0	1.5	0.0	4,260	4,690	3,644,405	136,015	0.00448	282,382	16	34,100
Feb-20	0	-	0	3.9%	-	6.5	6.0	0.0	562,500	182,959	3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676	23	57,000
Mar-20	0	-	0	3.9%	-	5.5	7.0	0.0	562,500	182,959	2.0	5.0	1.0	5,760	5,940	3,767,762	183,825	0.00585	366,784	25	64,500
Apr-20	25	92,500	29,315	3.8%	29,315	6.0	7.5	0.0	607,500	192,528	1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742	39	107,000
May-20	0	-	0	3.8%	29,315	6.0	8.0	0.0	630,000	199,660	1.0	7.0	1.0	5,584	5,663	3,785,524	177,557	0.00562	377,216	35	83,000



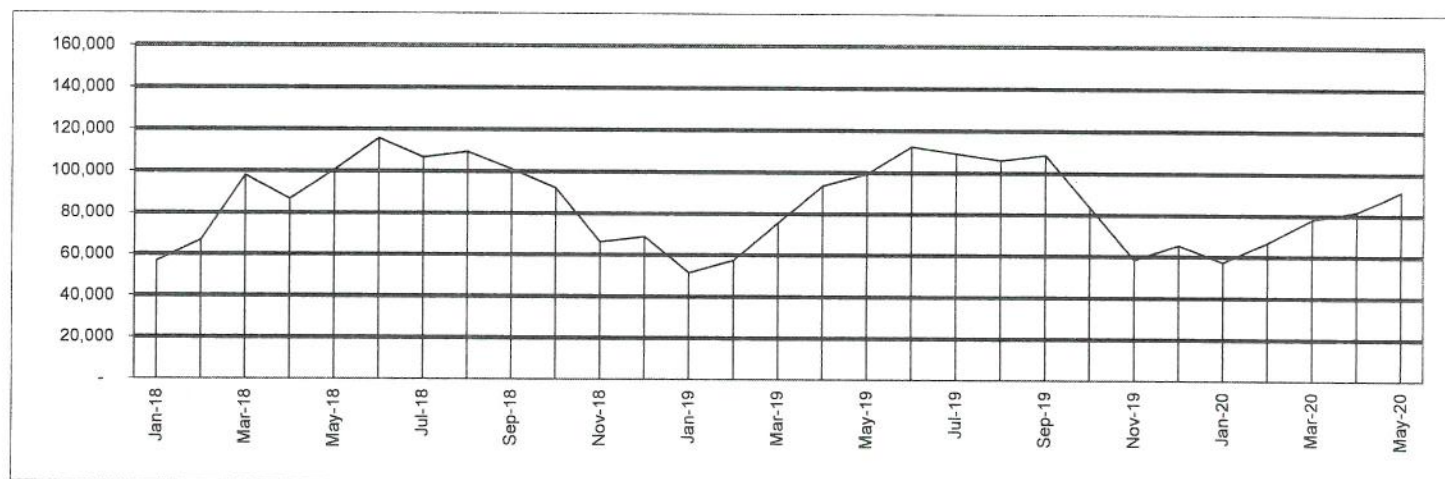
Electric Cost Kilowatts Used

Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
Jan-19	2926	51,490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330
Jun-19	10074	112,400
Jul-19	10066	109,190
Aug-19	9784	106,020
Sep-19	6115	108,680
Oct-19	4920	83,790
Nov-19	3390	58,410
Dec-19	3482	65,660
Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78,070
Apr-20	4741	81,780
May-20	8962	91,550

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
 Discharge Monitoring Report For Municipal Wastewater Treatment Plants

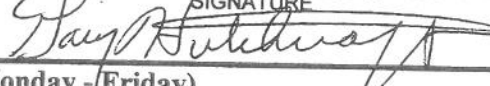
NAME OF FACILITY					LOCATION ADDRESS & CITY								COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1					#3 Anderson Road								Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER			OUTFALL NUMBER		TYPE TREATMENT FACILITY							
May-20		MO-0103241			#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT					EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.2	210	208	15.5	1.562	7.6	2.6	2.1		6.6		16.1	98.8	99.0
2	7.2			17.3	1.550	7.5				6.4		17.5		
3	7.2			16.8	1.723	7.5				5.8		18.2		
4	7.3			16.5	1.523	7.6				5.8	< 20	17.4		
5	7.4			16.1	1.994	7.7				5.8		16.6		
6	7.2			15.8	1.650	7.7			0.38	6.3		16.6		
7	7.3			16.4	1.451	7.6				6.2		16.4		
8	7.1	330	230	16.1	1.481	7.6	2.0	2.0		6.0		16.2	99.4	99.1
9	7.2			15.5	1.726	7.6				5.9		15.0		
10	7.1			15.5	1.594	7.6				5.8		15.4		
11	6.8			15.9	1.494	7.3				6.3	< 20	15.7		
12	6.8			16.5	1.323	7.3			0.01	6.3		15.2		
13	6.9	353	180	15.6	1.593	7.3	1.7	2.3		6.1		15.1	99.5	98.7
14	7.0			16.9	1.555	7.3				5.9		16.3		
15	6.9			17.5	1.793	7.2				4.2		17.2		
16	7.0			17.3	2.226	7.3				5.3		17.8		
17	6.8			17.8	2.007	7.3				5.3		18.2		
18	7.1			17.3	1.825	7.6				6.4	< 20	18.0		
19	7.1			17.1	1.608	7.4				5.6		17.4		
20	7.2			17.4	1.796	7.6				5.8		17.6		
21	7.2			17.8	1.762	7.5			0.02	5.6		18.1		
22	7.1	200	222	18.2	1.912	7.6	2.2	2.6		6.0		18.6	98.9	98.8
23	7.1			18.6	2.257	7.6				5.4		18.5		
24	7.3			19.0	2.541	7.6				5.4		19.8		
25	7.3			20.1	2.657	7.6				5.6	< 20	20.6		
26	7.4			19.7	2.270	7.7				5.4		20.9		
27	7.2	328	194	19.6	1.835	7.6	6.2	3.9	2.0	5.2		21.2	98.1	98.0
28	7.0			19.6	1.873	7.3				4.8		20.8		
29	6.8			18.8	1.925	7.4				5.6		20.7		
30	6.9			17.9	2.020	7.5				5.8		19.5		
31	6.8			19.1	2.089	7.4				5.2		19.9		
Total					56.615									
Avg		284	207	17.4	1.826		2.9	2.6	0.60	5.7	< 20	17.8	98.9	98.7
Min	6.8	200	180	15.5	1.323	7.2	1.7	2.0	0.01	4.2	< 20	15.0	98.1	98.0
Max	7.4	353	230	20.1	2.657	7.7	6.2	3.9	2.00	6.6	< 20	21.2	99.5	99.1

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11	< 4.8	< 1.0	280	323						
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 4.8	< 1.0	280	323						
Avg	< 4.8	< 1.0	280	323						
Min	< 4.8	< 1.0	280	323						
Max	< 4.8	< 1.0	280	323						

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVATED SLUDGE" PROCESSES

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVATED SLUDGE" PROCESSES												
DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				* Ambient Temp ° F	*RAIN inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		1.6	5,650	890	15.9	2.9	5,190	830	15.8	50	0	7:30
2		2.1	5,300	840	17.5	2.8	5,130	840	17.2	64	0	7:30
3		1.2	5,490	860	18.1	1.2	4,970	770	18.0	66	0	7:30
4		1.1	5,020	820	17.2	1.2	4,730	820	17.1	53	0.4	7:30
5		1.3	4,680	770	16.3	1.3	5,160	840	16.5	55	1.0	7:30
6		2.6	5,390	850	16.3	2.8	5,030	830	16.5	51	0	7:30
7		1.7	6,010	870	16.2	3.1	4,930	840	16.1	53	0	7:30
8		2.1	5,560	880	16.2	2.5	5,480	880	16.2	53	0.5	7:30
9		1.9	5,900	920	15	2.5	5,620	890	15.0	42	0	7:30
10		1.9	5,640	900	15.2	1.9	5,900	900	15.3	49	0	7:30
11		1.6	5,170	870	15.3	1.4	5,720	880	15.2	45	0	7:30
12		4.2	5,650	880	15.0	4.0	5,820	900	15.1	50	0.2	7:30
13		2.4	5,750	900	14.9	3.1	5,470	890	14.9	52	0.1	7:30
14		2.4	5,860	900	16.6	2.8	5,780	880	16.4	62	0.2	7:30
15		1.0	4,950	850	17.6	1.0	5,850	880	17.4	62	1.0	7:30
16		1.3	4,940	830	17.8	1.3	5,550	900	17.7	64	0	7:30
17		1.2	4,800	810	18.2	1.1	5,650	900	18.1	65	0.25	7:30
18		2.2	4,770	800	17.9	1.2	5,820	880	17.9	58	0	7:30
19		1.1	5,980	900	17.4	1.8	5,910	890	17.5	59	0	7:30
20		1.4	6,070	900	17.8	1.8	5,900	900	17.8	62	0	7:30
21		1.4	6,130	910	18.0	1.4	5,950	900	18.0	62	0	7:30
22		1.3	6,600	930	18.5	2.3	5,530	850	18.4	62	0	7:30
23		0.9	5,990	900	18.6	0.9	5,470	850	18.7	64	0.1	7:30
24		1.0	4,860	800	19.8	1.4	5,400	850	19.8	66	0	7:30
25		0.9	5,090	900	20.5	0.9	6,090	900	20.4	68	0.25	7:30
26		0.8	6,260	900	20.7	0.9	6,280	900	20.7	70	0.2	7:30
27		1.8	5,960	870	21.2	1.1	6,370	870	21.0	68	0.4	7:30
28		2.2	5,690	830	20.7	1.9	5,880	890	20.7	66	0.4	7:30
29		2.5	5,880	850	20.4	2.2	6,240	880	20.2	60	0.3	7:30
30		2.3	6,060	900	19.1	2.0	6,610	880	19.4	55	0	7:30
31		1.0	6,010	900	19.7	1.2	6,110	900	19.8	60	0	7:30
COMMENTS:												

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 6/4/2020
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 6/4/2020

*Required Daily (Monday - Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2020	05	01	2020	05	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTD	*****	*****		*****	6.2	2.9	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REORMNT	*****	*****		*****	Weekly Average : 45	Monthly Average : 30		Weekly	24 Hour Composite	
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****		*****	*****	98.1	%	Monthly	Calculated	
Stage Type: End of Pipe	REORMNT	*****	*****		*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Escherichia coli (E. coli) (51040)	REPORTD	*****	*****		*****	<20	<20	#/100mL	Weekly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		*****	7 Day Geometric Mean : 630	30 Day Geometric Mean : 126		Weekly	Grab	
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.657	1.826	Mgal/d	*****	*****	*****		Daily	Total Measured	
Stage Type: End of Pipe	REORMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required		*****	*****	*****		Daily	Total Measured	
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****		2.0	*****	0.60	mg/L	Weekly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 6.0	*****	Monthly Average : 1.1		Weekly	Grab	
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****		<4.8	*****	<4.8	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 15	*****	Monthly Average : 10		Monthly	Grab	
pH (00400)	REPORTD	*****	*****		7.2	*****	7.7	SU	Weekly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Minimum : 6.5	*****	Maximum : 9.0		Weekly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455	
Gary F Hutchcraft	Gary F Hutchcraft	2020-06-04 14:46:52	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 1

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2020	05	01	2020	05	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****		<1.0	*****	<1.0	ug/L	Monthly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 9.1	*****	Monthly Average : 3.6		Monthly	Grab	
Suspended Solids, percent removal (81011)	REPORTD	*****	*****		*****	*****	98.0	%	Monthly	Calculated	
Stage Type: End of Pipe	REORMNT	*****	*****		*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****		*****	3.9	2.6	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REORMNT	*****	*****		*****	Weekly Average : 45	Monthly Average : 30		Weekly	24 Hour Composite	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455	
Gary F Hutchcraft	Gary F Hutchcraft	2020-06-04 14:46:52	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 2

PERMITTEE NAME/ADDRESS

State of Missouri

Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
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FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	05	01		2020	05	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTD	*****		323	*****	323		
Stage Type: Instream Monitoring	REQRMNT	*****		Daily Maximum Monitoring Required	*****	Monthly Average Monitoring Required	Monthly	Grab
							Monthly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE	
Gary Hutchcraft	7305
TYPED OR PRINTED NAME	CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE
Gary F Hutchcraft	Gary F Hutchcraft
TYPED OR PRINTED NAME	SIGNATURE
	2020-06-04 14:46:52
	Date

FOR MAY 2020
month year

Use following abbreviations R-rain, S-snow, O-overcast, C-clear, PC-partly cloudy

Prepared by GH, JL

Approved by GH

Date 6/4/2020



14040 Santa Fe Trail Drive • Lenexa, KS 66215
www.smithandloveless.com

Smith & Loveless, Inc.

June 1st 2020

Mr. Gary Hutchcraft
(573) 365-0544
ghutchcraft@alliancewater.com

Dear Mr. Hutchcraft,

Smith & Loveless, Inc. is the manufacturer of a full line of sewage pumping, headworks, and treatment equipment, including the PISTA® equipment at Lake Ozark, MO. Smith & Loveless only sells this proprietary equipment and proprietary parts directly to end-users or through sole source Representatives. Because even the first Smith & Loveless Pump Station sold in 1946 is still in operation, Smith & Loveless spends large portions of its resources in not only providing spare parts but knowing and maintaining the knowledge of which parts are now used for every piece of S&L equipment.

This information is kept by each unique S&L serial number. S&L has developed and has had parts specifically designed to Smith & Loveless specifications and they can only be purchased through Smith & Loveless. The S&L PISTA® GRIT REMOVAL SYSTEM™ referenced by serial number 03-0506 installed in Lake Ozark, MO has proprietary components designed specifically by and for S&L.

This letter is to certify that Smith & Loveless, Inc. is the sole source for its new equipment, retrofit equipment and parts. Our parts and retrofit departments can be reached by calling 800-922-9048. Your local sole-source Smith & Loveless Representative in your area is Municipal Equipment Company, Inc. Their phone number is (314) 645-2400 and their FAX number is (314) 290-2980. Derrick Brandt of Municipal Equipment is your point of contact and he can be reached at (618) 322-0623.

Please feel free to contact Derrick Brandt at Municipal Equipment Company, Inc. for all your Smith & Loveless needs.

Regards,

David Bryan
Retrofit Sales Manager



Smith & Loveless Inc.
Protecting Water. Protecting People.™

Pumping, Headworks & Treatment Solutions
14040 Santa Fe Trail Dr.
Lenexa, KS 66215
Office: (913) 888-5201 ext. 376
Cell: (913) 484-7581

14040 Santa Fe Trail Drive. Lenexa, KS 66215 - P: 913.888.5201 F: 913.748.0106
www.smithandloveless.com



AFTERMARKET

Smith & Loveless, Inc.

SALES AGREEMENT

Date: June 1, 2020
Project: Lake Ozark, MO
Inq #: CB-29361
Rev. 01
Existing S&L SN: 03-0506, 66-03716

Customer Contact:
Customer Phone:
Customer Email:

Your local Smith & Loveless Representative Contact Information:

Sales Person & Contact Phone: Derrick Brandt (314) 645-2400
Representative Company: Municipal Equipment Company, Inc
Representative Email: dbrandt@munequip.com

Scope of Equipment: **One (1) PISTA® GRIT CHAMBER™ 4" suction lift weld assembly.**

- Constructed of carbon steel.
- Includes mounting hardware and touch-up paint kit.

Price (includes freight): **\$5,069**

-MORE-