

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
FEBRUARY 18, 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: January 21, 2020

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4. REPORTS

Bill List

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Revenue Budget Analysis

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Expenditure Budget Analysis

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Income & Expense Summary

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January Alliance Report of Operations

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Approval of Flow Charts January 2020

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Discussion and Possible action on the replacement Parker Air Cylinders

36

B. Discussion and possible action for the purchase and installation of tires for sludge truck

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE MARCH 17, 2020 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – January 21, 2020

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, January 21, 2020 at Lake Ozark City Hall

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:

City Administrator Woods motioned to approve the meeting minutes of December 17, 2019 her motion was seconded by Alderman Massey, and passed unanimously.

REPORTS:

The December 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 Woods, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for December was 1.235 mgd. We had 1.8 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.1 mg/l and TSS of 2.0 mg/l respectively for December, which represents a 99.3% or better removal.

The MLSS average for both aeration basins was 4,515 mg/l. The total dry weight sludge inventory for December totaled 255,044 pounds. There were 17 tanker loads or 62,900 gallons of bio solids land applied in December. There were 14 tanker loads or 32,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Van Dee to approve the Flow Chart for December. His motion was seconded by Alderman Massey. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Public Works Director Michalik stated there was a junction box that needed to be replaced. It was less than \$1000 so it was approved and replaced.

NEW BUSINESS:

- A. After a brief discussion a motion was made by Resident Member Hamner to accept the inventory list. His motion was seconded by Public Works Director Michalik. Unanimous approval, motion passed.
- B. A motion was made by Public Works Director Michalik to accept the Emergency Response Plan, His motion was seconded by Administrator Van Dee. Unanimous approval, motion passed.
- C. Resident Member Hamner discussed the annual flow charts. With no questions the board stated they are all happy with the flow charts

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:20 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
FEBRUARY 18, 2020

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	1,213.32
OPERATING FUND BILLS TO BE PAID:	\$	36,823.86
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	37,670.00
TOTAL	\$	75,707.18

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:				
Account	Check	Paid To:	Description:	Amount:
4150	215	Roemer's Heavy Equip	Oil change & maintenance	\$ 1,213.32
				\$ -
TOTAL				\$ 1,213.32

OPERATING FUND BILLS TO BE PAID:				
Account	Check	Paid To:	Description:	Amount:
4000	217	Equipment Replacement Fund	Payment into ER Fund	\$ 5,967.00
4020	218	Lumix Electrical, Inc.	Junction Box & hookup KVAR	\$ 1,158.64
4020	219	Jani King	February	\$ 195.00
4170	220	Alliance Water Resources, Inc.	January	\$ 25,465.00
4175	221	Ameren MO	11673321	\$ 3,187.09
4175	221	Ameren MO	98041275	\$ 71.64
4176	222	AT&T	February	\$ 91.69
4176	223	Republic	February	\$ 154.17
4176	224	Ferrellgas	340.06 Gallons	\$ 533.63
				\$ -
TOTAL				\$ 36,823.86

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	1044	Lumix Electrical, Inc.	RAS motor control ctr/elec panel	\$ 37,670.00
				\$ -
				\$ -
TOTAL				\$ 37,670.00

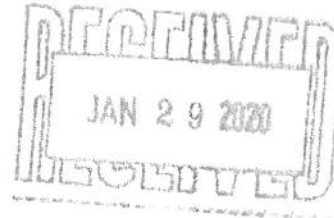
Lumix Electrical, Inc.
Fulton Office

PO Box 475
 Rogersville MO 65742

Invoice

Date	Invoice #
1/29/2020	020016

Bill To
Joint Sewer Board P.O. Box 1985 Lake Ozark, MO 65049



P.O. No.	Terms	Project
		CN195523 B&C

Quantity	Description	Rate	Amount
5.5	Joint Sewer Board Alliance Water Exty's Replace 6x6x24" Wire Trough Straight Time Labor Materials	55.00 44.44	302.50 44.44
14	Hook Up KVAR Units and Install KVAR Contactors Straight Time Labor Material	55.00 41.70	770.00 11.70
REPLACED JUNCTION BOX & HOOKED UP EXISTING KVAR UNITS GL Acct#: <u>4020</u> Signature: <u>Dany N. Subudh...</u> Date: <u>1/29/20</u>			
Thank you for your business.			Total \$1,158.61

00000000 0045800058302 0000003187090 0000003187090

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

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

0000210 6268247 0002 092139 102

Amount Enclosed \$

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Payment Amount After Due Date	Account Number
\$3,234.90	4580005832
Due Date	Due Date
March 03, 2020	March 03, 2020

Please return this portion with your payment.

See next page for service details.

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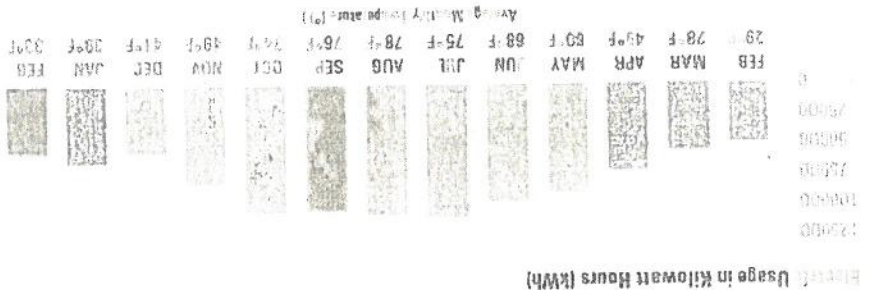
Page 1 of 4

CLARK
4175
2/10/20
2/10/20
2/10/20

2020 FEB 10 2020
2020 FEB 10 2020
2020 FEB 10 2020

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Account Number	Customer Name	Service Address
4580005832	ALLIANCE WATER RESOURCES INC	3 ANDERSON RD., LAKE OZARK, MO 65049
Amount Due	Due Date	Amount After Due Date
\$3,187.09	03/03/2020	\$3,234.90
Total Electric Charges	Previous Statement	Total Payments
\$3,187.09	\$3,416.27	\$3,416.27
Total Amount Due	Payment Received. Thank You	

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- Customer Service: 1.877.426.3736

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Basic Service Details Service from 01/08/2020 - 02/06/2020 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11873321	01/08 - 02/06	29	Total kWh	Actual	57751.0000	57397.0000	354.0000	180.0000	56640.0000
11873321	01/08 - 02/06	29	Peak kW	Actual	0.6910	0.0000	0.6910	160.0000	110.5600

Usage Summary

Total kWh	56640.0000	Peak kW	110.6000
Total Billing Demand	110.6000	October Winter Base kW	216.5000
Winter Base Demand	110.6000	Base kWh Ratio	1.0000
Base kWh (HUD)	56640.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03890000	\$0.00
Demand Charge	110.60	kW	@ \$ 2.00000000	\$221.20
Base Energy Charge / Hours Used	16,590.00	kWh	@ \$ 0.06650000	\$1,103.24
Base Energy Charge / Hours Used	22,120.00	kWh	@ \$ 0.04940000	\$1,092.73
Base Energy Charge / Hours Used	17,930.00	kWh	@ \$ 0.03890000	\$697.48
Customer Charge				\$95.07
Fuel Adjustment Charge	56,640.00	kWh	@ \$ 0.00077000	\$43.61
Energy Efficiency Program Charge	56,640.00	kWh	@ \$ 0.00020000	\$11.33
Energy Efficiency Investment Charge	56,640.00	kWh	@ \$ 0.00469948	\$266.17
Renewable Energy Adjustment	56,640.00	kWh	@ \$ 0.00009103	\$5.16
Federal Tax Rate Reduction	56,640.00	kWh	@ \$ 0.00462000	\$261.68
Total Service Amount				\$3,187.09
Total Electric Charges				\$3,187.09

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

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 City, State, Zip _____
 Phone Number _____

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MAIL STUB & CHECK



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- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

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

AMOUNT DUE \$71.64

Due Date 03/03/2020

Amount After Due Date \$72.71

Previous Statement \$65.67

Total Payments \$65.67

Payment Received. Thank You.

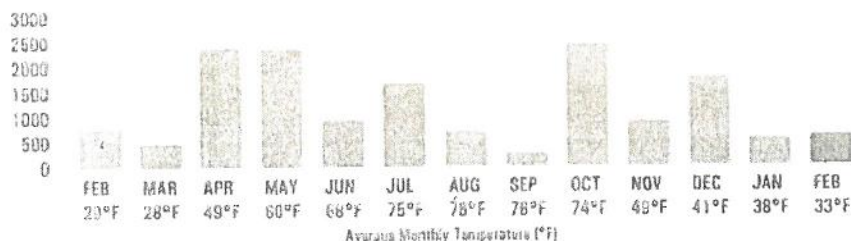
Current Bill for Statement 02/10/2020

Total Electric Charges \$71.64

Total Amount Due \$71.64

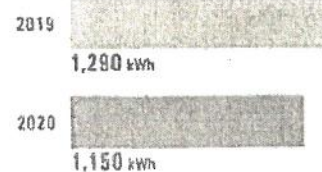
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

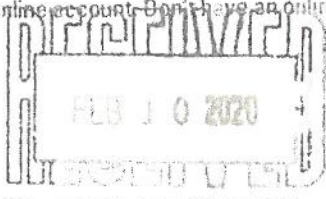
So far this year, you're using **10.9% less** than last year.



Usage from Jan Feb for 2019 & 2020

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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#: 4175
Signature: [Signature]
Date: 2/10/20



» See next page for service details.

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Amount Due	Due Date
\$71.64	March 03, 2020
Delinquent Amount After Due Date	Account Number
\$72.71	5580005920

Amount Enclosed \$

>000266 6266247 0002 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

50633000 0055800059200 000000071640 000000071640



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- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

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Electric Service Details Service from 01/08/2020 - 02/06/2020 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	01/08 - 02/06	29	Total kWh	Actual	19716.0000	19955.0000	61.0000	10.0000	610.0000
98041275	01/08 - 02/06	29	Peak kW	Actual	4.2620	0.0000	4.2620	10.0000	42.6200

Usage Summary

Total kWh	610.0000	Winter Base kWh	1680.0000
Current Base kWh	610.0000	Seasonal kWh	0.0000

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

Threshold Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	610.00	kWh	@ \$ 0.08360000	\$51.00
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04820000	\$0.00
Customer Charge				\$21.43
Fuel Adjustment Charge	610.00	kWh	@ \$-0.00077000	\$-0.47
Energy Efficiency Program Charge	610.00	kWh	@ \$ 0.00010000	\$0.06
Energy Efficiency Investment Charge	610.00	kWh	@ \$ 0.00507300	\$3.10
Renewable Energy Adjustment	610.00	kWh	@ \$ 0.00009103	\$0.06
Federal Tax Rate Reduction	610.00	kWh	@ \$-0.00581000	\$-3.54
Total Service Amount				\$71.64
Total Electric Charges				\$71.64

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
January 27, 2020	\$65.67

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

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 Phone Number _____

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 AMERENMISSOURI.COM
 PAYSTATION

Lumix Electrical, Inc.
Fulton Office

PO Box 475
 Rogersville MO 65742

Invoice

Date	Invoice #
1/28/2020	020002

Bill To
Joint Sewer Board P.O. Box 1985 Lake Ozark, MO 65049



P.O. No.	Terms	Project
		CS195523

Quantity	Description	Rate	Amount
	Joint Sewer Board Alliance Water - Lake of the Ozarks RAS WAS MCC Replacement Per Contract Amount:	17,670.00	17,670.00
GL Acct#: <u>E/R</u> Signature: <u>[Signature]</u> Date: <u>1/29/20</u>			
Thank you for your business.		Total	\$17,670.00

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

Account Number	Account Name	1/31/2020					Percent YTD
		2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 1/31/2020	2020 January Revenue	
3020	Osage Beach	480,784.67	475,091.53	473,000.00	40,057.03	40,057.03	8%
3010	Lake Ozark	69,215.30	74,908.46	77,000.00	5,776.31	5,776.31	8%
3030	Misc.	1,485.00	0.00	0.00	0.00	0.00	
3100	Interest	1,484.82	4,286.79	1,400.00	193.37	193.37	14%
3060	Waste Haulers' Fee	25,780.00	26,260.00	29,000.00	1,760.00	1,760.00	6%
Total Operating Fund		578,749.79	580,546.78	580,400.00	47,786.71	47,786.71	8%
E/R Fund Income		4,281.74	9,001.77	4,000.00	0.00	0.00	0%
TOTAL INCOME		583,031.53	589,548.55	584,400.00	47,786.71	47,786.71	8%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
1/31/2020

Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 1/31/2020	2020 January Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.00	71,606.00	5,967.00	5,967.00	8%
4020	*Maintenance & Repair	9,713.86	104,062.97	88,000.00	4,078.68	4,078.68	5%
4140	Insurance	18,475.25	18,761.00	19,200.00	0.00	0.00	0%
4150	Vehicle Repair/Maint	3,887.47	5,479.60	10,000.00	1,213.32	1,213.32	12%
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	25,465.00	25,465.00	8%
4175	Electric	79,533.37	73,276.87	75,000.00	3,481.94	3,481.94	5%
4176	Utilities Misc.	0.00	3,717.52	3,100.00	246.48	246.48	8%
4190	Bank Charges	24.00	176.00	75.00	5.00	5.00	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	40,457.42	40,457.42	7%
	**E/R Expenses	42,782.61	41,280.51	83,500.00	930.00	930.00	1%
	TOTAL EXPENSES	525,331.37	735,597.47	661,561.00	41,387.42	41,387.42	6%

*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

**Equipment & Replacement

Pista Grit Suction tube	5,500.00
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 & skim	3,000.00
Rebuild Ducking 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
	83,500.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
1/31/2020

Beginning Balance	260,552.44
Income - Osage Beach	40,057.03
Income - Lake Ozark	5,776.31
Income - Other	-
Income - Waste Haulers' Fees	1,760.00
Interest - Checking	10.32
Income - CD Interest	183.05
Transfers From E/R Fund	-
Transfers to E/R Fund	(5,967.00)
Expenses	(34,490.42)
Ending Fund Balance	267,881.73
Central Bank - NOW Acct.	54,074.05
CD First Bank of the Lake, 2/20/21 #101318432	103,807.68
CD First Bank of the Lake, 4/22/21 #101318432	110,000.00
Outstanding Checks:	-
	267,881.73

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
1/31/2020

Beginning Balance	537,121.14
Interest - Checking	-
Income - CD Interest	-
Transfers to E/R Fund	5,967.00
Income - Miscellaneous	-
Expenses	(930.00)
Ending Fund Balance	542,158.14
First Bank of the Lake - Money Mkt.	126,516.09
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, 04/20 #101318430	106,146.13
Outstanding Checks:	-
	542,158.14

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Resources,
Inc.**

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Columbia, MO
65201**

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REPORT OF OPERATIONS

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

Month of January 2020

Submitted by Alliance Water Resources, Inc. for the

February 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	1.9	1.8	N/A	0		0.02	< 4.9	< 1.0
Peak Day	3.2	2.9	7.9	0		0.03	< 4.9	< 1.0
Percent Removal	99.2	99.4	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		2.2	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.374 MGD or 46% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. 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 89928 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.

0 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 450,000 gallons with a level of 6.0 feet in Tank 1 and 4.0 feet in Tank 2.

WASTEHAULERS

The plant received 16 loads of septage during the month totaling 34,100 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)
- We installed the flygt lift station pump that JCI had taken parts of a bad and good pump to make one last month on 8th of January.
- Lumix Electric was here the week of the 13th of January to install the new RAS MCC (motor control center) and while they were here, they installed a new junction box and re-installed the existing KVAR units that wasn't part of the original MCC replacement contract.
- We had a serious power steering leak on the sludge truck, so we took it to the Roemers Truck Repair to have it checked out on the 13th of January. He had to replace the hoses and a valve. While he had it he fixed a couple other small items, a coolant leak, the power cord for the block heater and he also serviced the truck.

SAFETY

- We conducted our monthly routine Safety Meeting on Personal Protection Equipment on the 14th of January.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 6th of February.
- We completed the annual Form S sludge report and put it on MDNR's EDMR website on the 22nd of January and mailed a copy on the 23rd. We also completed the EPA Biosolids Annual Report online on the 23rd.
- We mailed a copy of the plants 2021 permit renewal to MDNR on the 23rd of January.

MISCELLANEOUS AND RECOMMENDATIONS

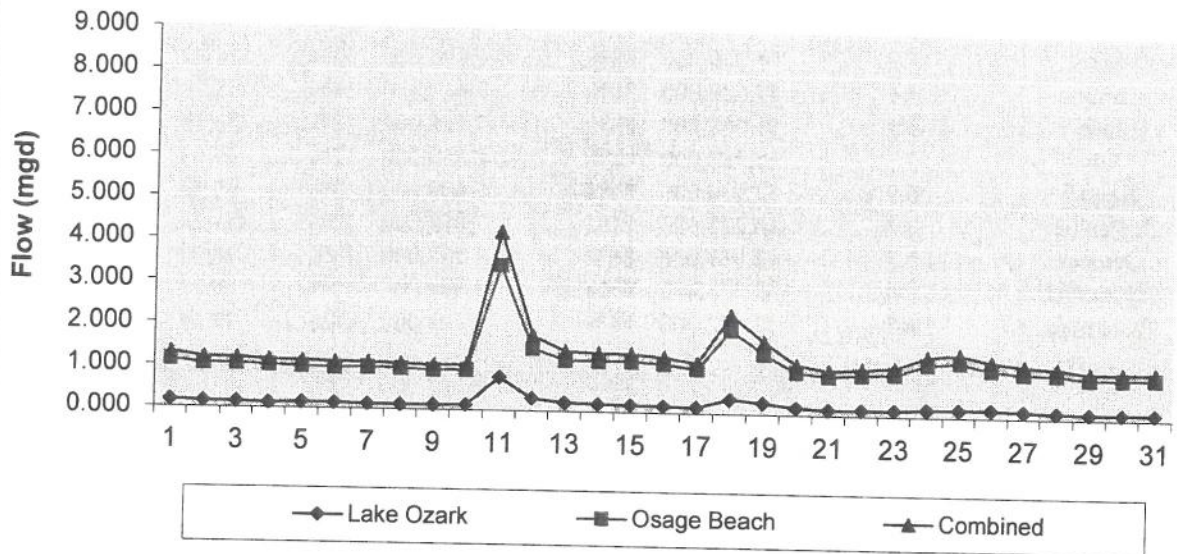
- We have solicited bids for replacement tires for the sludge truck and have received 3 bids back. Purcell Tire, McKnight Tire and Clark Tire. (see attachment)
- We have solicited bids for some replacement air wiper cylinders for the UV system and have received 4 bids back. Vandevanter Engineering, Xylem, USA Bluebook and John Henry Foster (see attachment)
- We also tried to order a rebuild kit for the UV systems air dryer and it is obsolete. John Henry Foster is our Ingersoll Rand statewide rep., so I emailed our Joint Sewer Board representatives for approval and received approval to purchase a replacement dryer on 31st of January.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF January 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-Jan	0	0.180	1.133	1.313	13.7	86.3						
2-Jan	0	0.146	1.048	1.194	12.2	87.8						
3-Jan	0	0.139	1.045	1.184	11.7	88.3	188	253	238	106	152	172
4-Jan	0	0.122	1.023	1.145	10.7	89.3						
5-Jan	0	0.140	0.997	1.137	12.3	87.7						
6-Jan	0	0.135	0.971	1.106	12.2	87.8						
7-Jan	0	0.120	0.986	1.106	10.8	89.2						
8-Jan	0	0.114	0.971	1.085	10.5	89.5						
9-Jan	0	0.113	0.947	1.060	10.7	89.3	233	215	223	128	118	162
10-Jan	0.1	0.127	0.952	1.079	11.8	88.2						
11-Jan	4.2	0.788	3.431	4.219	18.7	81.3						
12-Jan	0.6	0.303	1.484	1.787	17.0	83.0						
13-Jan	0	0.206	1.217	1.423	14.5	85.5						
14-Jan	0	0.185	1.207	1.392	13.3	86.7						
15-Jan	0.0	0.172	1.209	1.381	12.5	87.5						
16-Jan	0	0.160	1.160	1.320	12.1	87.9						
17-Jan	0	0.145	1.051	1.196	12.1	87.9	123	150	440	84	120	744
18-Jan	1.5	0.353	1.986	2.339	15.1	84.9						
19-Jan	0	0.283	1.433	1.716	16.5	83.5						
20-Jan	0	0.178	1.015	1.193	14.9	85.1						
21-Jan	0.2	0.132	0.932	1.064	12.4	87.6						
22-Jan	0	0.138	0.968	1.106	12.5	87.5						
23-Jan	0.3	0.145	1.005	1.150	12.6	87.4	123	155	130	102	120	162
24-Jan	0.5	0.179	1.245	1.424	12.6	87.4						
25-Jan	0	0.188	1.295	1.483	12.7	87.3						
26-Jan	0	0.189	1.127	1.316	14.4	85.6						
27-Jan	0	0.166	1.053	1.219	13.6	86.4						
28-Jan	0	0.140	1.039	1.179	11.9	88.1						
29-Jan	0.2	0.130	0.951	1.081	12.0	88.0						
30-Jan	0.1	0.132	0.961	1.093	12.1	87.9						
31-Jan	0	0.132	0.964	1.096	12.0	88.0	155	228	235	102	158	304
SUM	7.7	5.780	36.806	42.586								
AVG		0.186	1.187	1.374	14	86	164	200	253	104	134	309
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

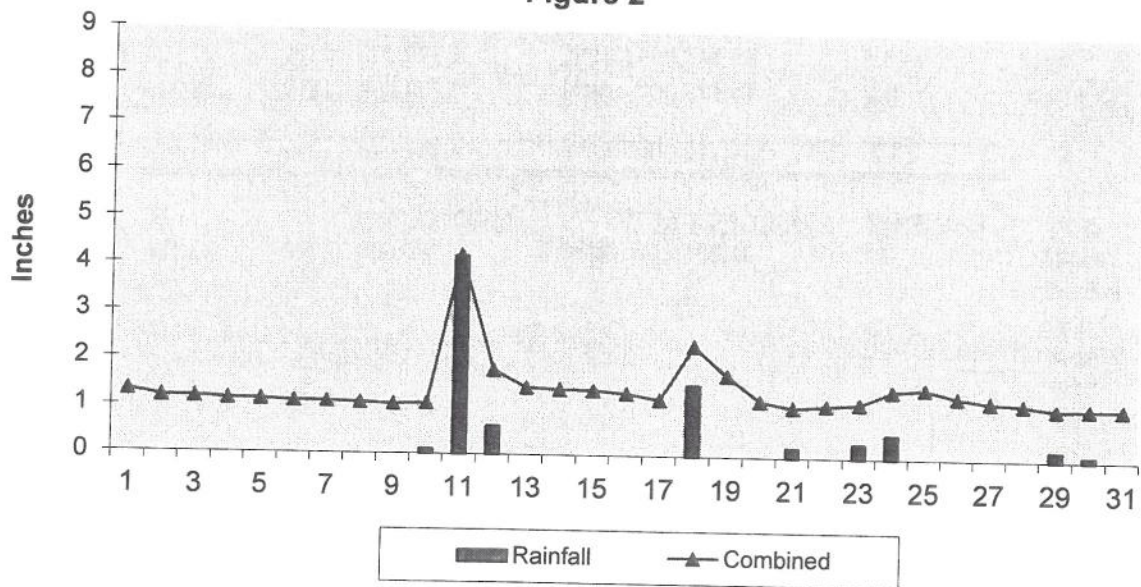
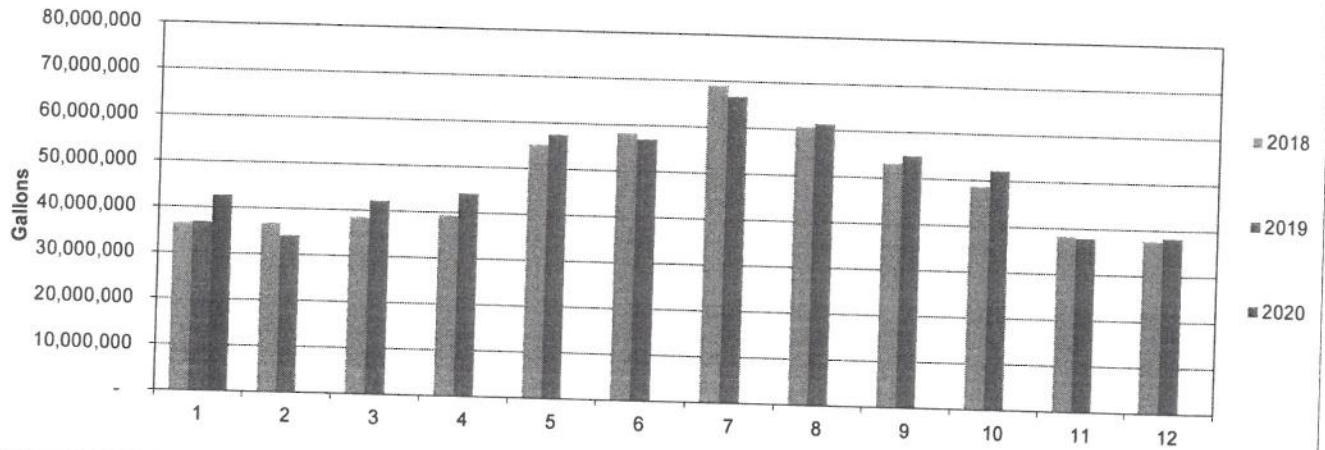


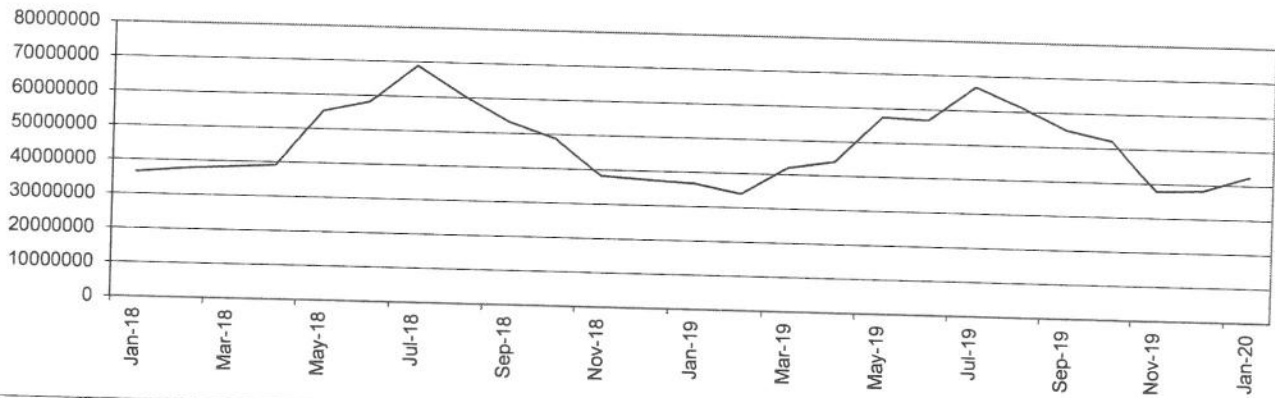
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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						-	
March						-	
April						-	
May						-	
June						-	
July						-	
August						-	
September						-	
October						-	
November						-	
December						-	
	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%

Monthly Influent Flow
Figure 3A

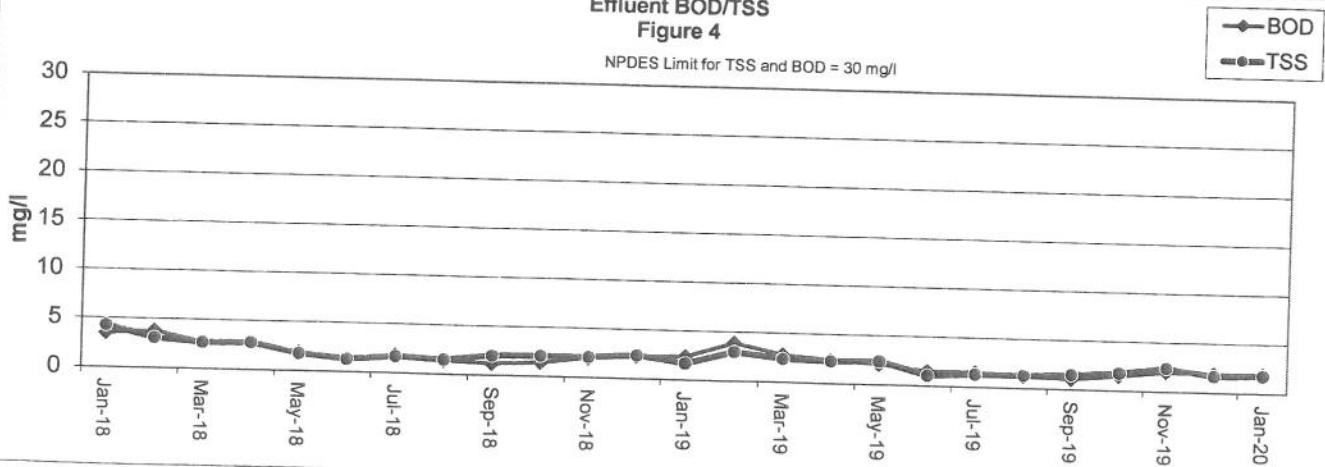


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

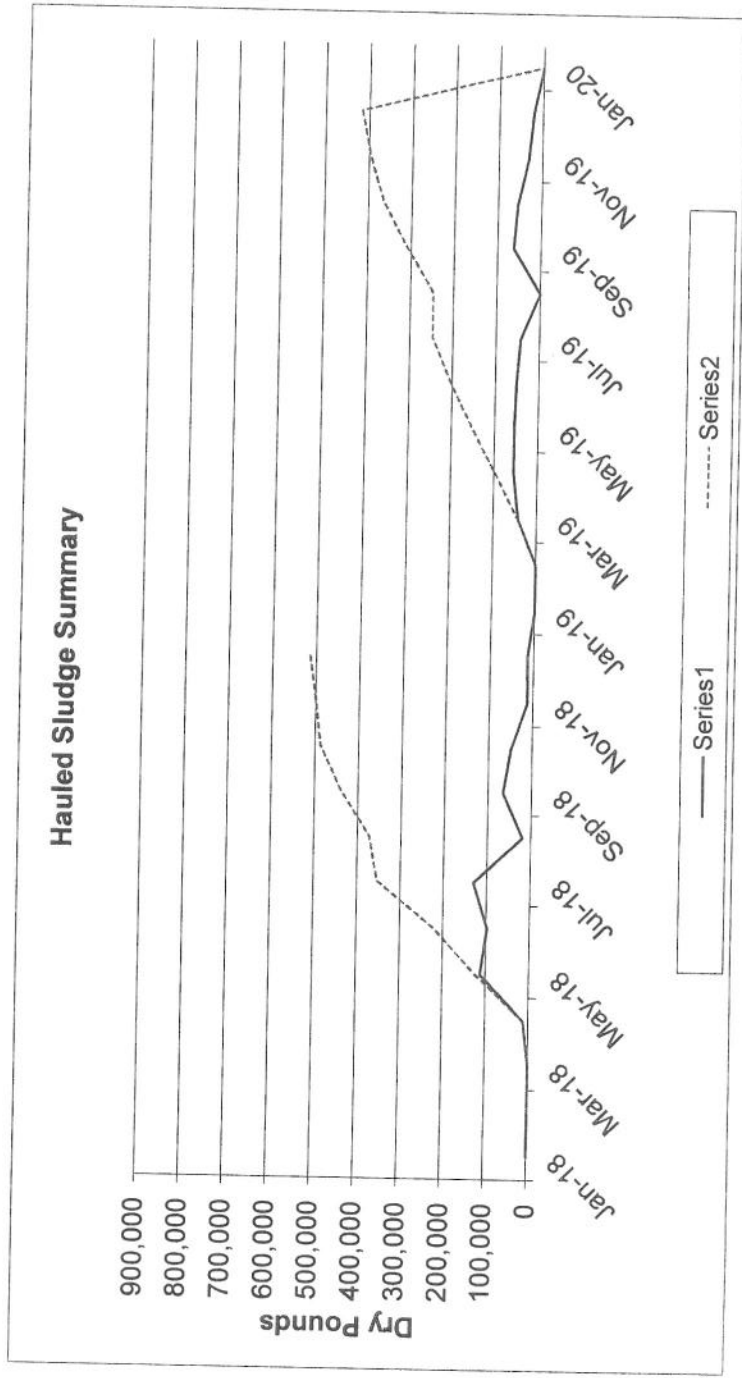
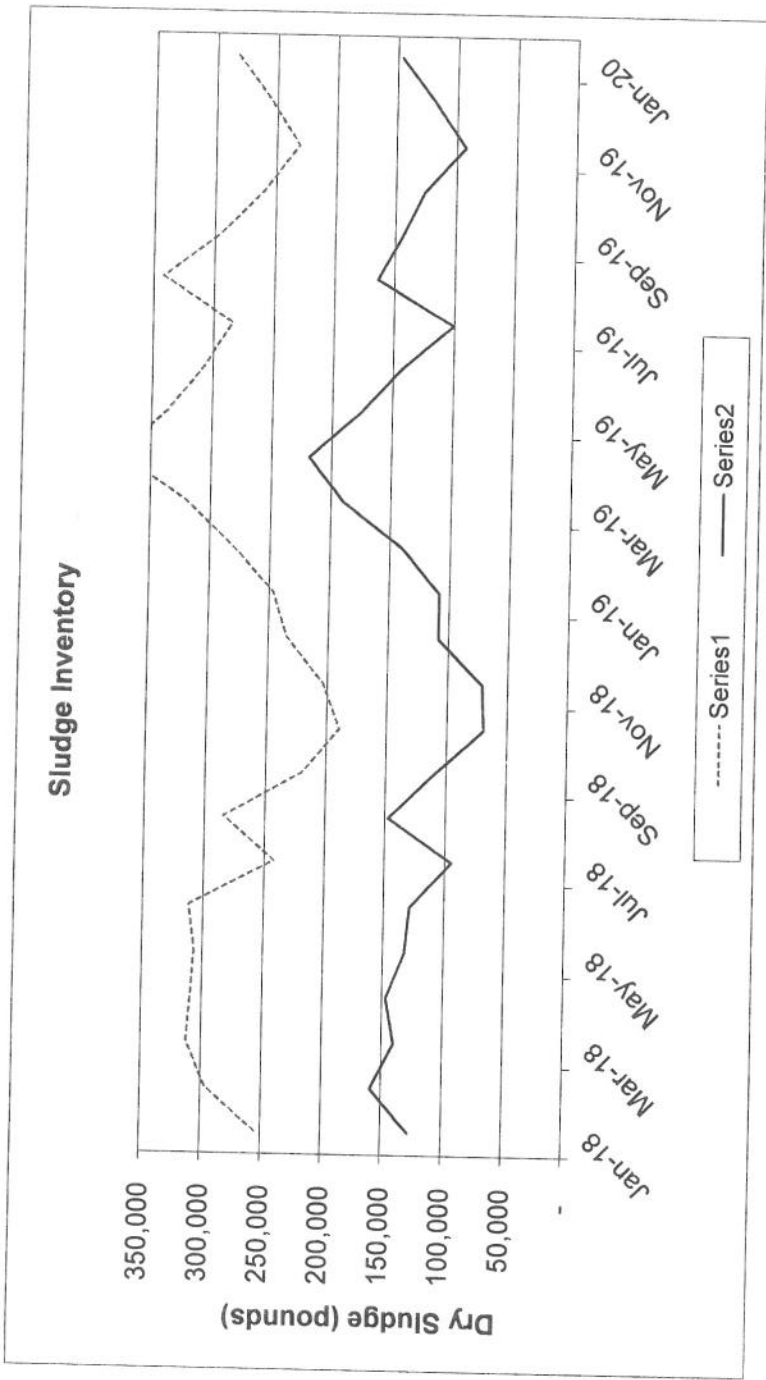


	Hauled Sludge				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-18	0	-	0	3.4%	-
Feb-18	0	-	0	3.4%	-
Mar-18	0	-	0	3.4%	-
Apr-18	11	40,700	12,096	3.6%	12,096
May-18	93	344,100	112,693	3.9%	124,789
Jun-18	88	325,000	97,758	3.6%	222,547
Jul-18	126	466,200	131,023	3.4%	353,570
Aug-18	12	44,400	19,441	5.3%	373,011
Sep-18	51	188,700	66,098	4.2%	439,109
Oct-18	38	140,600	48,447	4.1%	487,556
Nov-18	11	40,700	12,899	3.8%	500,455
Dec-18	14	51,800	14,688	3.4%	515,143
Jan-19	0	-	0	3.4%	-
Feb-19	0	-	0	3.4%	-
Mar-19	36	133,200	43,139	3.9%	43,139
Apr-19	39	144,300	53,940	4.5%	97,079
May-19	49	181,300	54,866	3.6%	151,945
Jun-19	44	162,800	51,872	3.8%	203,817
Jul-19	37	136,900	43,633	3.8%	247,450
Aug-19	0	-	0	3.8%	247,450
Sep-19	58	214,600	62,487	3.5%	309,937
Oct-19	50	185,000	54,742	3.5%	364,679
Nov-19	29	107,300	31,629	3.5%	396,308
Dec-19	17	62,900	20,643	3.9%	416,951
Jan-20	0	-	0	3.9%	-

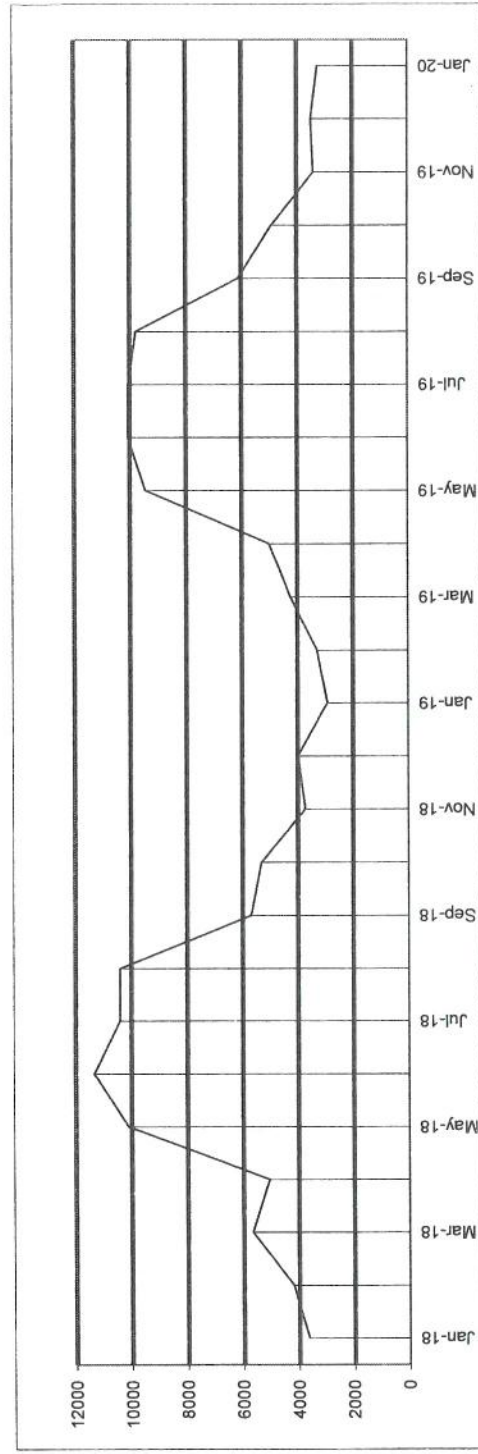
Basin Depths					
Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	
5.5	4.5	0.0	450,000	127,602	
7.5	5.0	0.0	562,500	159,503	
5.5	5.5	0.0	495,000	140,362	
5.0	6.0	0.0	495,000	147,114	
4.5	4.5	0.0	405,000	132,638	
4.0	5.5	0.0	427,500	128,589	
3.0	4.5	0.0	337,500	94,853	
5.0	2.5	0.0	337,500	147,778	
4.5	2.5	0.0	315,000	110,338	
3.0	1.5	0.0	202,500	69,776	
2.5	2.5	0.0	225,000	71,309	
6.5	2.0	0.0	382,500	108,459	
5.0	3.5	0.0	382,500	108,462	
6.0	5.0	0.0	495,000	140,362	
6.0	7.0	0.0	585,000	189,462	
5.5	7.5	0.0	585,000	218,676	
8.0	5.0	0.0	585,000	177,036	
7.0	3.0	0.0	450,000	143,381	
3.0	4.0	0.0	315,000	100,397	
5.5	6.0	0.0	517,500	164,006	
7.0	4.0	0.0	495,000	144,134	
7.5	2.0	0.0	427,500	126,498	
3.5	3.5	0.0	315,000	92,853	
6.0	2.0	0.0	360,000	118,148	
6.0	4.0	0.0	450,000	146,367	

Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry
Clarif #1	Clarif #2	Clarif #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory
0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090
2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113
0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769
0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655
0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321
4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100
1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026
2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531
0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132
0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409
1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809
11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494
1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874
1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503
0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033
1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923
3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113
2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267
2.0	3.0	0.5	6,060	5,830	3,710,524	183,973	0.00595	284,370
5.0	3.0	0.5	5,660	5,680	3,763,810	177,982	0.00567	341,988
2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00489	294,741
2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00426	259,414
3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,968
1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044
1.0	1.5	0.0	4,260	4,890	3,644,405	136,015	0.00448	282,382

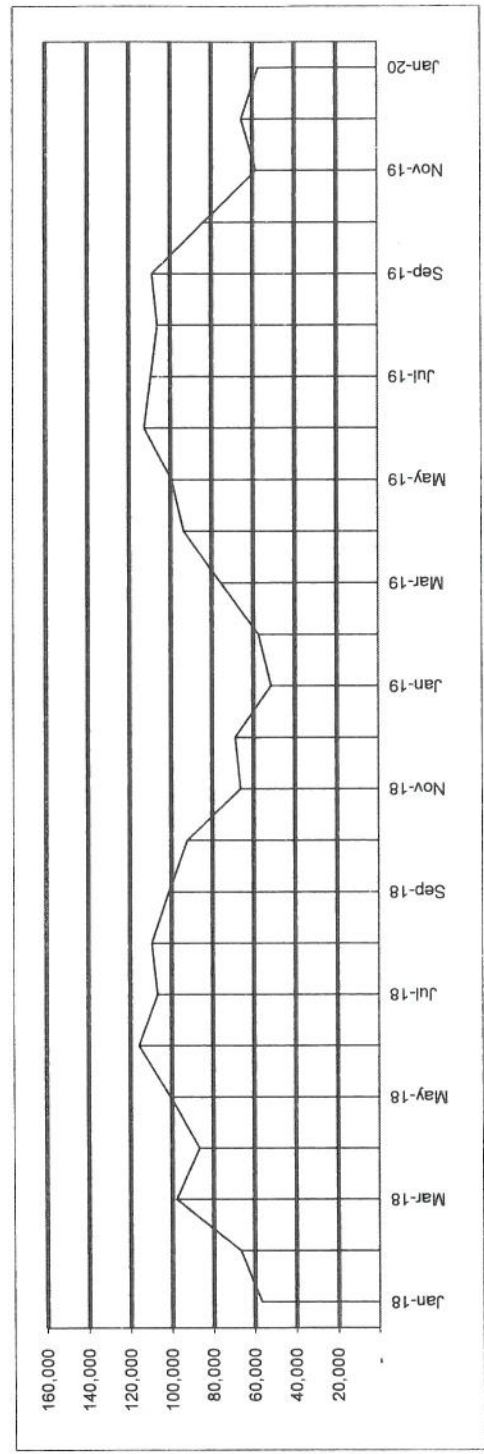
Accepted Septage	
Loads	Gallons
5	12,500
16	40,000
6	15,000
8	20,000
10	24,500
38	95,000
42	107,000
30	75,000
45	113,500
21	59,500
8	21,500
22	55,000
19	46,500
31	79,500
9	21,500
23	61,500
12	25,500
19	47,500
36	84,000
29	72,500
22	55,000
40	97,000
15	36,000
14	32,000
16	34,100



Electric Cost



Kilowatts Used



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



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

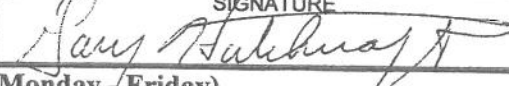
NAME OF FACILITY					LOCATION ADDRESS & CITY								COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1					#3 Anderson Road								Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER			OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Jan-20		MO-0103241			#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
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	7.0			12.5	1.779	7.4				7.1		9.3		
2	7.2			12.6	1.583	7.9			0.03	5.9		10.7		
3	7.0	238	172	13.1	1.593	7.6	1.9	1.4		5.9		11.2	99.2	99.2
4	6.8			12.3	1.465	7.7				6.4		10.0		
5	6.9			11.8	1.552	7.5				5.9		9.7		
6	6.8			12.1	1.508	7.6				6.4		9.4		
7	6.8			12.4	1.515	7.6				6.2		9.8		
8	6.9			11.8	1.398	7.5			0.02	6.2		9.9		
9	6.8	223	162	13.2	1.435	7.6	1.1	1.6		6.1		10.8	99.5	99.0
10	7.0			13.3	1.405	7.7				6.3		11.9		
11	7.2			10.6	4.772	7.4				4.6		10.9		
12	7.3			9.3	2.416	7.3				6.8		8.6		
13	7.4			10.4	2.020	7.5				8.1		8.5		
14	6.8			11.4	2.019	7.4				7.3		9.9		
15	7.2			12.6	1.834	7.7				5.9		11.2		
16	6.8			11.0	1.755	7.5			0.02	6.3		10.0		
17	7.0	440	744	10.6	1.673	7.6	1.4	1.4		6.9		9.5	99.7	99.8
18	6.8			11.5	3.047	7.5				4.7		10.5		
19	7.1			10.0	2.289	7.6				6.6		8.7		
20	7.1			9.5	1.716	7.3				8.2		8.5		
21	6.3			9.5	1.566	7.2				7.1		6.4		
22	6.4			10.6	1.611	7.2				6.3		7.9		
23	6.6	130	162	10.4	1.731	7.2	1.9	1.5	0.02	7.1		8.1	98.5	99.1
24	7.4			9.8	2.019	7.4				6.3		8.1		
25	7.3			9.9	2.076	7.3				5.9		8.0		
26	7.4			9.3	1.831	7.4				5.8		8.2		
27	7.3			9.8	1.690	7.4				6.0		8.3		
28	6.9			10.3	1.711	7.5				5.9		9.2		
29	6.7			9.9	1.558	7.2				6.3		8.2		
30	6.6			10.6	1.481	7.3			0.01	6.0		9.2		
31	6.8	235	304	10.9	1.643	7.4	3.2	2.9		6.1		9.2	98.6	99.0
Total					57.691									
Avg		253	309	11.1	1.861		1.9	1.8	0.02	6.3	0.0	9.3	99.1	99.2
Min	6.3	130	162	9.3	1.398	7.2	1.1	1.4	0.01	4.6	0.0	6.4	98.5	99.0
Max	7.4	440	744	13.3	4.772	7.9	3.2	2.9	0.03	8.2	0.0	11.9	99.7	99.8

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 µg/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8	< 4.9	< 1.0	310	276	2.4	< 0.10	18.6	0.57	< 5.0	< 10.0
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 4.9	< 1.0	310	276	2.4	< 0.10	18.6	0.57	< 5.0	< 10.0
Avg	< 4.9	< 1.0	310	276	2.4	< 0.10	18.6	0.57	< 5.0	< 10.0
Min	< 4.9	< 1.0	310	276	2.4	< 0.10	18.6	0.57	< 5.0	< 10.0
Max	< 4.9	< 1.0	310	276	2.4	< 0.10	18.6	0.57	< 5.0	< 10.0

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				Outside * 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		2.2	5,040	840	9.6	4.1	4,260	750	9.6	30	0	7:30
2		1.5	4,780	750	11.2	3.2	4,280	710	11.1	40	0	7:30
3		1.2	4,960	780	11.6	2.9	4,320	700	11.7	44	0	7:30
4		2.3	4,700	740	10.7	4.7	4,400	740	10.8	37	0	7:30
5		2.1	4,940	770	10.2	3.7	4,060	690	10.1	30	0	7:30
6		1.1	5,060	810	9.9	4.7	3,940	670	10.1	27	0	7:30
7		1.3	4,740	790	10.3	4.4	4,250	760	10.4	32	0	7:30
8		2.1	4,380	710	10.0	4.3	4,350	790	10.0	31	0	7:30
9		1.9	4,790	730	11.4	3.1	4,640	770	11.2	55	0	7:30
10		1.7	4,890	730	12.3	3.2	4,640	710	12.2	53	0.1	7:30
11		1.3	3,050	390	10.5	2.1	2,830	350	10.7	28	4.2	7:30
12		5.7	1,650	200	9.1	6.2	2,110	250	8.9	27	0.6	7:30
13		5.3	2,870	400	8.8	6.5	3,000	390	8.8	28	0	7:30
14		3.9	3,810	530	10.6	6.2	3,050	380	10.3	38	0	7:30
15		2.4	4,180	620	11.7	4.5	3,810	500	11.6	50	0	7:30
16		2.7	4,050	610	10.0	4.4	4,170	720	10.3	28	0	7:30
17		4.1	3,930	650	9.8	4.9	4,160	660	9.6	32	0	7:30
18		1.7	2,120	230	10.6	2.4	3,080	370	10.6	46	1.5	7:30
19		5.1	3,250	450	8.8	6.2	3,640	530	8.8	21	0	7:30
20		5.6	3,580	620	8.5	7.1	3,350	500	8.7	18	0	7:30
21		2.4	2,970	460	6.9	5.1	2,560	300	7.1	22	0.2	7:30
22		2.4	3,720	550	8.1	5.7	2,700	300	8.0	32	0	7:30
23		4.1	3,440	510	8.6	5.8	2,940	350	8.2	36	0.3	7:30
24		2.8	3,500	610	8.2	5.0	2,900	400	8.0	36	0.5	7:30
25		1.6	3,940	700	8.2	4.3	3,170	450	8.0	34	0	7:30
26		1.3	4,700	830	8.3	4.7	3,050	500	8.1	33	0	7:30
27		1.2	4,630	780	8.4	2.8	3,790	640	8.2	32	0	7:30
28		1.7	4,680	810	9.4	2.9	3,950	670	9.2	34	0	7:30
29		2.2	4,690	820	8.9	4.1	4,220	730	8.8	34	0.2	7:30
30		1.7	4,360	760	9.1	3.3	4,350	780	9.1	35	0.1	7:30
31		2.4	4,260	720	9.5	3.4	4,690	820	10.2	38	0	7:30
COMMENTS												

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 2/6/2020
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 2/6/2020

*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	TO	YEAR	MO	DAY
2020	01	01		2020	01	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	*****	*****	*****	3.2	1.9	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	*****	*****	*****	*****	98.5	%	Monthly	Calculated	
Stage Type: End of Pipe	REORMNT	*****	*****	*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Flow, in conduit or thru treatment plant (50050)	REPORTD	4.772	1.861	Mgal/d	*****	*****		Daily	Total Measured	
Stage Type: End of Pipe	REORMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required		*****	*****		*****	Daily	
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****		0.03	*****	mg/L	Weekly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 11.5	*****		Monthly Average : 2.2	Weekly	
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****		<4.9	*****	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 15	*****		Monthly Average : 10	Monthly	
pH (00400)	REPORTD	*****	*****		7.2	*****	SU	Weekly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Minimum : 6.5	*****		Maximum : 9.0	Weekly	
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****		<1.0	*****	ug/L	Monthly	Grab	
Stage Type: End of Pipe	REORMNT	*****	*****		Daily Maximum : 9.1	*****		Monthly Average : 3.6	Monthly	

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.

Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	5733650455
Gary F Hutchcraft		2020-02-06 10:43:02	
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)

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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	TO	YEAR	MO	DAY
2020	01	01		2020	01	31

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

Parameter		MASS		Unit	CONCENTRATION		Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Suspended Solids, percent removal (81011)	REPORTD	*****	*****	*****	*****	99.0	%	Monthly	Calculated	
Stage Type: End of Pipe	REORMNT	*****	*****	*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	2.9	1.8		Weekly	24 Hour Composite	
Stage Type: End of Pipe	REORMNT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	mg/L	Weekly	24 Hour Composite	

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TYPED OR PRINTED NAME		SIGNATURE	
		Date	

Page 2

PERMITTEE NAME/ADDRESS

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Southwest Regional Office

2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

NAME: Lake of the Ozarks Regional WWTP I
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	01	01		2020	01	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	*****	*****		276	*****	276			
Stage Type: Instream Monitoring	REQRMNT	*****	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	mg/L	Monthly	Grab
									Monthly	Grab

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		5733650455	
TYPED OR PRINTED NAME		SIGNATURE	
		2020-02-06 10:43:02	
		Date	

State of Missouri
Department of Natural Resources
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MO0103241	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY	
2020	01	01	TO	2020	03	31

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

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Cadmium, total recoverable (01113)	REPORTD	*****		<5.0	*****	Quarterly	Grab	
Stage Type: End of Pipe	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	
Copper, total recoverable (01119)	REPORTD	*****		<10.0	*****	Quarterly	Grab	
Stage Type: End of Pipe	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	
Nitrogen, total (as N) (00600)	REPORTD	*****		18.6	*****	Quarterly	Grab	
Stage Type: End of Pipe	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	
Phosphorus, total (as P) (00665)	REPORTD	*****		2.4	*****	Quarterly	Grab	
Stage Type: End of Pipe	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	

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Gary F Hutchcraft		2020-02-06 10:51:19	
SIGNATURE			

Page 1

State of Missouri
Department of Natural Resources
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PERMITTEE NAME/ADDRESS

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LAKE OZARK, MO 65049

MO0103241	SM1 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY	
2020	01	01	TO	2020	03	31

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

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Nitrogen, total (as N) (00600)	REPORTD	*****		0.57	*****	Quarterly	Grab	
Stage Type: Instream Monitoring	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	
Phosphorus, total (as P) (00665)	REPORTD	*****		<0.10	*****	Quarterly	Grab	
Stage Type: Instream Monitoring	REORMNT	*****		Daily Maximum : Monitoring Required	*****	Quarterly	Grab	

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TYPED OR PRINTED NAME		Date	
Gary F Hutchcraft		2020-02-06 10:51:19	
SIGNATURE			

Page 2

FOR JANUARY 2020
month year

FOR JANUARY 2020
month year

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

Prepared by GH, JH, DS

Approved by _____ GH

Date 2/6/2020



Bids for 4 Replacement Parker Air Cylinders

Bidder	UV Supplies Budgeted Amount	Total Bid	Equipment
Vandevanter Engineering	\$10,000.00	\$7,811.00	Parker Origa Cylinder 760 MM
		plus freight	
Xylem	"	\$7,420.00	Same as above
		plus freight	
USA Bluebook	"	\$5,263.80	Same as above
		plus freight	
John Henry Foster		\$2,767.20	Same as above
		plus freight	

Bids for Purchase & Installation of State Bid Tires for Sludge Truck

Bidder	Budgeted Amount	Total Bid	Equipment
Purcell Tire	\$6,000.00	\$5,159.49	4 - 425/65R225 GDYR G278 MSD TL L
			2 - 425/65R225 L G296 NSA TL
McKnight Tire	"	\$5,055.94	Same as above
Clark Tire	"	\$4,987.64	Same as above