

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
October 18th, 2022 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Dennis Newberry
Mayor, Osage Beach, Michael Harmison
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, David Mitchem
Alderman, Osage Beach, Kevin Rucker
Alderman, Lake Ozark, Pat Thompson
Public Works Director, Lake Ozark, Matt Michalik
Public Works Operations Manager, Osage Beach, Kevin Crooks
Member at Large, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: September 20th, 2022

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4. REPORTS –

Bill List
Revenue Budget Analysis
Expenditure Budget Analysis
Income & Expense Summary

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Approval of Flow Chart; September 2022

13-30

5. OLD BUSINESS

A. Board Representative Update

6. NEW BUSINESS

A. Review and discussion 2023 Budget draft

31-35

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE November 15TH, 2022 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – September 20th, 2022

CALL TO ORDER:

Mayor Dennis Newberry called the meeting to order at 4:00 pm on Tuesday September 20th, 2022 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, Michael Harmison- Present
Mayor, Lake Ozark, Dennis Newberry – Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, David Mitchem – Absent
Alderman Osage Beach, Kevin Rucker- Absent
Alderman Lake Ozark, Pat Thompson- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Public Works Operations Manager, Kevin Crooks – Absent
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Resident Member, Mr. Gary Hamner motioned to approve the meeting minutes from July 19th, 2022. The motion was seconded Alderman Lake Ozark, Pat Thompson and passed unanimously.

REPORTS:

July 2022

- Bill List – Motion to approve by Alderman Lake Ozark, Pat Thompson. The motions was seconded by City Administrator Osage Beach, Jeana Woods and was passed unanimously.
- Revenue Budget Analysis.
- Expenditure Budget Analysis.
- Income & Expense Summary, Check Registers and Bank Statements were reviewed.

August 2022

- Bill List – Motion to approve by Alderman Lake Ozark, Pat Thompson. The motions was seconded by Mayor, Osage Beach, Michael Harmison and was passed unanimously.
- Revenue Budget Analysis.
- Expenditure Budget Analysis.
- Income & Expense Summary, Check Registers and Bank Statements were reviewed.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for July was 1.752 mgd. We had 2.6 inches of precipitation in July measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 1.9 mg/l and 1.6 mg/l respectively for July which represents a 99.1 + % or better removal.

The MLSS average for both aeration basins was 6,142 mg/l in July. There were 80 loads of biosolids or 288,000 gallons land applied in July. We received 33 loads of septage or 68,500 gallons for July.

Alliance Report of Operations: The average daily incoming flow for August was 1.654 mgd. We had 6.8 inches of precipitation in August measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 1.8 mg/l and 1.6 mg/l respectively for August which represents a 99.1 + % or better removal.

The MLSS average for both aeration basins was 5,720 mg/l in August. There were 108 loads of biosolids or 388,800 gallons land applied in August. We received 168 loads of septage or 300,000 gallons for August.

Other --

- Included the annual Capital Improvement Items List for consideration for 2023 and plan on having the five year CIP ready for the October 2022 JSB meeting.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Osage Beach; Jeana Woods approve the Flow Charts for July and August 2022. The motion was seconded Resident Member, Mr. Gary Hamner. Unanimous approval, motion passed.

OLD BUSINESS:

A. Board Representative Update. No update

B. NEW BUSINESS:

- We invited three vendors to bid on the handrailing for the new steps going down for the outfall and received three bids back. Motion from City Administrator Osage Beach, Jeana Woods to approve the bid from American Sun Control. The motion was seconded by Alderman Lake Ozark, Pat Thompson which was unanimously approved.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:25 pm. Motion made by Alderman Lake Ozark, Pat Thompson to adjourn and was seconded by Public Works Director Lake Ozark, Matt Michalik.

Approved on:

Mayor, Dennis Newberry

Clerk, Robin Craig

JOINT SEWER BOARD
BILL LIST
OCTOBER 18, 2022

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	42,087.43
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-

TOTAL	\$	42,087.43
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OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020		M/C Fastenco	Bolts for loading station	\$ -
4020		Menards	Bolts & Nuts for RAS Pumps	\$ -
4020		Xylem Water Solutions	UV Supplies	\$ -
TOTAL				\$ -

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	1030	Equipment Replacement Fund	Payment into ER Fund	\$ 4,584.00
4020		A&A Inc.	Remove grit in from bar screens	\$ 360.00
4020		Controlled Heating & Cooling	Service window A/C UV Room	\$ 150.00
4020		Dam Steel & Supply	Angle Brace	\$ 83.22
4020		Liebl's Tree Service	Cut Trees Ox. Ditches	\$ 300.00
4020		Majestic Franchising Inc.	October	\$ 197.15
4020		M/C QuickBooks	Accounting Software	\$ 30.00
4020		Menards	Tape for Sludge Judges & Glue	\$ 17.87
4020		Menards	Washer Fluid, Shop Rags	\$ 17.01
4020		Menards	Silicone Caulk	\$ 8.55
4020		Ovivo USA, LLC	Seals for Clarifier's Ducking skimmer	\$ 85.50
4170		Alliance Water Resources, Inc.	October	\$ 27,590.00
4175		Ameren MO	11673321	\$ 8,284.70
4175		Ameren MO	98041275	\$ 213.83
4176		AT&T	October	\$ 104.68
4176		Republic	October	\$ 61.14
TOTAL				\$ 42,087.43

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
4000				\$ -
TOTAL				\$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
4000				\$ -
TOTAL				\$ -



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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 \$8,284.70

Due Date 10/28/2022

Current Bill for Statement 10/07/2022

Total Electric Charges \$8,284.70

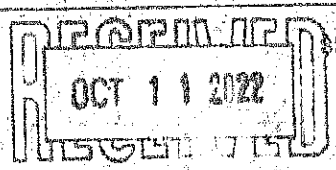
Amount After Due Date \$8,387.55

Total Amount Due \$8,284.70

Previous Statement \$10,627.46

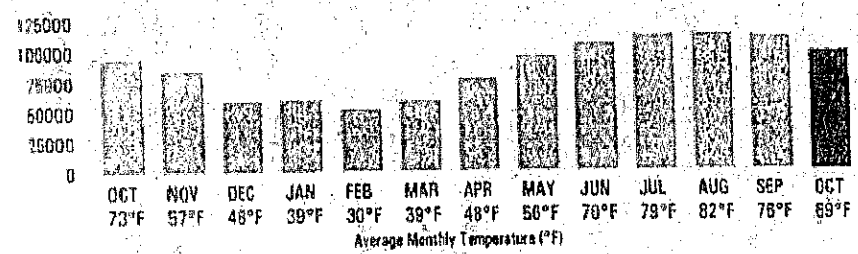
Total Payments \$10,627.46

Payment Received. Thank You.



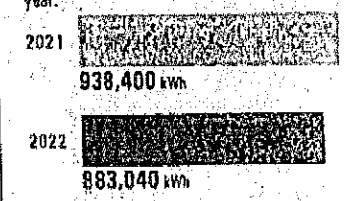
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **5.9% less** than last year.



Usage from Jan-Oct for 2021 & 2022

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: [Signature]
Date: 10/11/22



See next page for service details.

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Page 1 of 4

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Amount Due	Due Date
\$8,284.70	October 28, 2022
Delinquent Amount After Due Date	Account Number
\$8,387.55	4580005832

Amount Enclosed \$

>001994 2131625 0001 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

80600000 0045800058302 000008284700 000008284700



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Electric Service Details Service from 09/06/2022 - 10/05/2022 (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	09/06 - 10/05	29	Total kWh	Actual	75993.0000	75378.0000	617.0000	160.0000	98720.0000
11873321	09/06 - 10/05	29	Peak kW	Actual	1.0280	0.0000	1.0280	160.0000	164.8400

Usage Summary

Total kWh	98720.0000	Summer kWh	81699.0000
Non-Summer kWh	17021.0000	Peak kW	164.6000
Billing Demand	164.6000	Total Billing Demand	164.6000
Current Base Demand	164.6000	Base kWh Ratio	1.0000
Base kWh (HUD)	17021.0000	Seasonal kWh (HUD)	0.0000
October Base Demand	164.6000		

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

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AMOUNT DUE**\$8,284.70****Due Date****10/28/2022****Account Number****4560005832****Service Address****3 ANDERSON RD. -****Electric Service Details (Continued)****Rate 3M Large General Service**

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	\$ 0.03870000	\$0.00
Summer Demand Charge	164.60	kW	@	\$ 4.85792982	\$799.62
Winter Demand Charge	164.60	kW	@	\$ 0.37586034	\$61.87
Energy Charge/Hours Used	20,433.00	kWh	@	\$ 0.10540000	\$2,153.64
Energy Charge/Hours Used	27,244.00	kWh	@	\$ 0.07930000	\$2,160.45
Energy Charge/Hours Used	34,022.00	kWh	@	\$ 0.05340000	\$1,816.77
Base Energy Charge / Hours Used	4,257.00	kWh	@	\$ 0.06620000	\$281.81
Base Energy Charge / Hours Used	5,676.00	kWh	@	\$ 0.04920000	\$279.26
Base Energy Charge / Hours Used	7,088.00	kWh	@	\$ 0.03870000	\$274.31
Customer Charge					\$104.86
Fuel Adjustment Charge	98,720.00	kWh	@	\$ 0.00080482	\$79.45
Energy Efficiency Investment Charge	98,720.00	kWh	@	\$ 0.00325200	\$322.02
Renewable Energy Adjustment	98,720.00	kWh	@	\$ -0.00050000	\$ -49.38
Total Service Amount					\$8,284.70
Total Electric Charges					\$8,284.70

Payments Since Previous Statement

DATE RECEIVED
September 26, 2022

AMOUNT
\$10,627.46

**Account Messages**

A late payment charge of 1% will be added for any unpaid balance on all accounts after the due date.

Summer Electric Rates - June through September; Winter Electric Rates - October through May.

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

Switch On Lighting Savings

Upgrade to energy-efficient lighting to cut your energy costs. Get going with Ameren Missouri's BizSavers® program to get help with project planning, installation and applying for our generous cash incentives. Then reinvest the savings in your business for years to come.

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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 \$213.63

Due Date 10/28/2022

Current Detail for Statement 10/07/2022

Total Electric Charges \$213.63

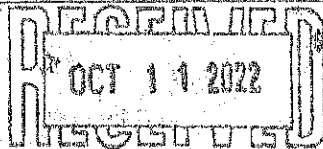
Amount After Due Date \$215.77

Total Amount Due \$213.63

Previous Statement \$172.58

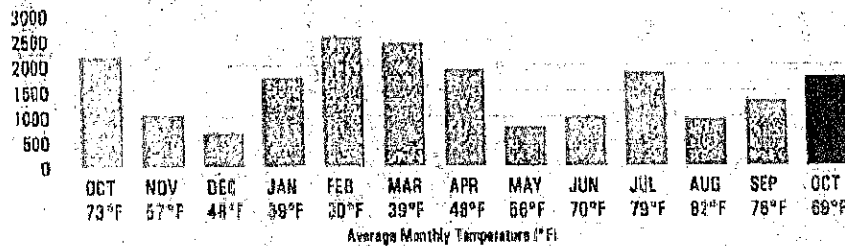
Total Payments \$172.58

Payment Received. Thank You.



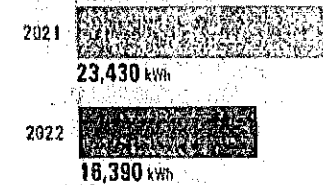
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **30% less** than last year.



Usage from Jan-Oct for 2021 & 2022

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: *[Signature]*

Date: 10/11/22

13073
01950 2131625 0001 092139 102

» See next page for service details

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Amount Due	Due Date
\$213.63	October 28, 2022
Delinquent Amount After Due Date	Account Number
\$215.77	5580005920
Amount Enclosed \$	

>001993 2131625 0001 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

50633000 0055800059200 000000213630 000000213630



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Electric Service Details Service from 09/06/2022 - 10/05/2022 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
08041275	09/06 - 10/05	29	Total kWh	Actual	25259.0000	25084.0000	175.0000	10.0000	1750.0000
08041275	09/06 - 10/05	29	Peak kW	Actual	4.0320	0.0000	4.0320	10.0000	40.3200

Usage Summary

Total kWh	1750.0000	Summer kWh	1448.0000
Non-Summer kWh	302.0000	Base kWh	1000.0000
Winter Base kWh	1000.0000	Current October Base kWh	1000.0000
Summer Cur Oct Base	828.0000	Winter Cur Oct Base	172.0000
Seasonal kWh	750.0000	Summer Seasonal kWh	621.0000
Winter Seasonal kWh	129.0000		

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

Threshold: Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Summer Total Energy Charge	1,448.00	kWh	@ \$ 0.11350000	\$164.35
Base Energy Charge	172.00	kWh	@ \$ 0.08480000	\$14.59
Seasonal Energy Charge	129.00	kWh	@ \$ 0.04980000	\$6.30
Customer Charge				\$21.86
Fuel Adjustment Charge	1,750.00	kWh	@ \$ 0.00080482	\$1.41
Energy Efficiency Investment Charge	1,750.00	kWh	@ \$ 0.00343000	\$6.00
Renewable Energy Adjustment	1,750.00	kWh	@ \$ 0.00050000	\$0.88
Total Service Amount				\$213.63
Total Electric Charges				\$213.63

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

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

9/30/2022

Account Number	Account Name	2020 Actual	2021 Actual	2022 Budget	2022 Actual as of 9/30/2022	2022 September Revenue	Percent YTD
3020	Osage Beach	475,836.10	465,202.63	470,050.00	344,244.59	38,794.87	83%
3010	Lake Ozark	74,163.90	84,797.35	82,950.00	70,005.38	7,288.46	17%
3030	Misc.	4,500.00	22,000.00	0.00	1,094.92	194.92	0%
3100	Interest	4,019.49	2,700.22	2,500.00	1,117.41	8.58	45%
3060	Waste Haulers' Fee	39,320.00	60,520.00	56,000.00	40,830.00	6,720.00	73%
Total Operating Fund		597,839.49	635,220.20	611,500.00	457,292.30	53,006.83	75%
E/R Fund Income		8,955.85	5,508.47	5,000.00	2,254.20	0.00	45%
TOTAL INCOME		606,795.34	640,728.67	616,500.00	459,546.50	53,006.83	75%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
9/30/2022

Account Number	Account Name	2020 Actual	2021 Actual	2022 Budget	2022 Actual as of 9/30/2022	2022 September Expenses	Percent YTD
4000	Equipment Replace Fund	71,604.00	143,608.00	55,000.00	41,256.00	4,584.00	75%
4020	*Maintenance & Repair	26,299.39	104,853.81	142,000.00	48,296.77	2,488.45	34%
4140	Insurance	19,865.00	21,493.00	22,000.00	22,088.00	0.00	100%
4150	Vehicle Repair/Main	12,479.74	11,099.99	8,000.00	5,949.59	0.00	74%
4170	Contract Management	305,580.00	308,640.00	327,158.00	248,310.00	27,590.00	76%
4175	Electric	75,077.36	82,227.41	92,000.00	61,869.93	10,800.04	67%
4176	Utilities Misc	2,485.59	3,528.17	3,750.00	3,198.98	644.75	85%
4190	Bank Charges	32.60	0.00	0.00	3.00	3.00	0%
4200	Audit	2,648.50	2,600.00	2,700.00	2,700.00	0.00	100%
4240	Capital Purchases	0.00	399.99	500.00	0.00	0.00	0%
	Totals	516,072.18	678,450.37	653,108.00	433,672.27	46,090.24	66%
	**E/R Expenses	85,258.27	202,161.70	59,500.00	5,885.27	0.00	10%
	TOTAL EXPENSES	601,330.45	880,612.07	712,608.00	439,557.54	46,090.24	62%

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500	Tier 1 X
Regular Maintenance	18,000	Tier 1
UV Bulbs, Quartz Sleeves, Misc	10,000	Tier 1 X
Concrete Steps to outfall	9,000	Tier 1 X
Rock for road	2,000	Tier 1
Parking Lot seamseal & sealco	2,500	Tier 1
Take #2 Aeration Basin, grit ren	100,000	Tier 2

142,000.00

DETAIL: Equipment & Replacement

Replace garage door in headwor	3,500	Tier 1 X
Replace wooden doors w/fiberglass	2,000	Tier 1
Replace lab refrigerator/freezer	3,500	Tier 1 X
Replacement 6" valve for sludge	500	Tier 1
Replace Light Fixtures in headwc	5,000	Tier 1 X
*Replace aerator gear box - new	45,000	Tier 1

59,500.00

*Zeller Technologies, \$74,900, est completion 2023

OPERATING FUND INCOME AND EXPENSE SUMMARY
9/30/2022

Beginning Balance	314,893.05
Income - Osage Beach	38,794.87
Income - Lake Ozark	7,288.46
Income - Other	1,094.92
Income - Waste Haulers' Fees	6,720.00
Interest - Checking	8.58
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers To E/R Fund	(4,584.00)
Expenses	(40,946.32)
Ending Fund Balance	323,269.56
Central Bank - NOW Acct.	101,910.59
CD First Bank of the Lake, 11/20/23 #8432	107,465.17
CD First Bank of the Lake, 10/22/23 #8433	113,893.80
Outstanding Checks:	-
	323,269.56

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
9/30/2022

Beginning Balance	512,477.66
Interest - Checking	-
Income - CD Interest	153.73
Transfers From Operating Fund	4,584.00
Income - Miscellaneous	-
Expenses	(5,207.49)
Ending Fund Balance	512,007.90
First Bank of the Lake - Money Mkt.	131,948.05
CD First Bank of the Lake, 10/31/22 #8430	110,059.85
CD First Bank of the Lake, 2/07/23 #8434	270,000.00
Outstanding Checks:	-
	512,007.90

**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 September 2022

Submitted by Alliance Water Resources, Inc. for the

October 2022

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
Monthly/Quarterly Avg	1.5	1.4	N/A	10.0		0.03	< 4.9
Peak Day	2.4	2.2	7.7	< 20		0.04	< 4.9
Percent Removal	99.2	99.3	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
Monthly/Quarterly Avg	30	30	6-9	126		1.8	10
Weekly Average	45	45		630			
Daily Max				N/A		10.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1,358 MGD or 45% of Permitted flow with Lake Ozark contributing 16% of the total flow and Osage Beach contributing 84%. 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 65435 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 51 tanker loads of bio-solids during the month equivalent to a total of 183,600 gallons and 54,073 pounds dry weight solids.

448,649 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 247,500 gallons with a level of 3.5 feet in Tank 1 and 2.0 feet in Tank 2.

WASTEHAULERS

The plant received 76 loads of septage during the month totaling 168,000 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)
- We had to replace a bar screen sheer pin on the 4th and 12th of September.
- We had Lieb's Tree Service come in on the 19th of September and cut the tree saplings out of the little islands in the oxidation ditches.
- We changed out the AC unit in the UV room on the 20th of September to have Controlled Heating & Cooling clean it and check it out. We started having problems with the backup AC unit that we had installed so we pulled it back out on the 29th and took it in to get checked out and got the one they had just cleaned and put it back in.
- We had A & A Septic Inc. come out and suck out the rock/grit on the 21st of September that was building up in front of the bar screens.

SAFETY

- We conducted our monthly Safety Meeting on Confined Space Awareness & Confined Space Entry Supervisor – Supervisor Responsibilities on the 14th of September.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 6th of October.

MISCELLANEOUS AND RECOMMENDATIONS

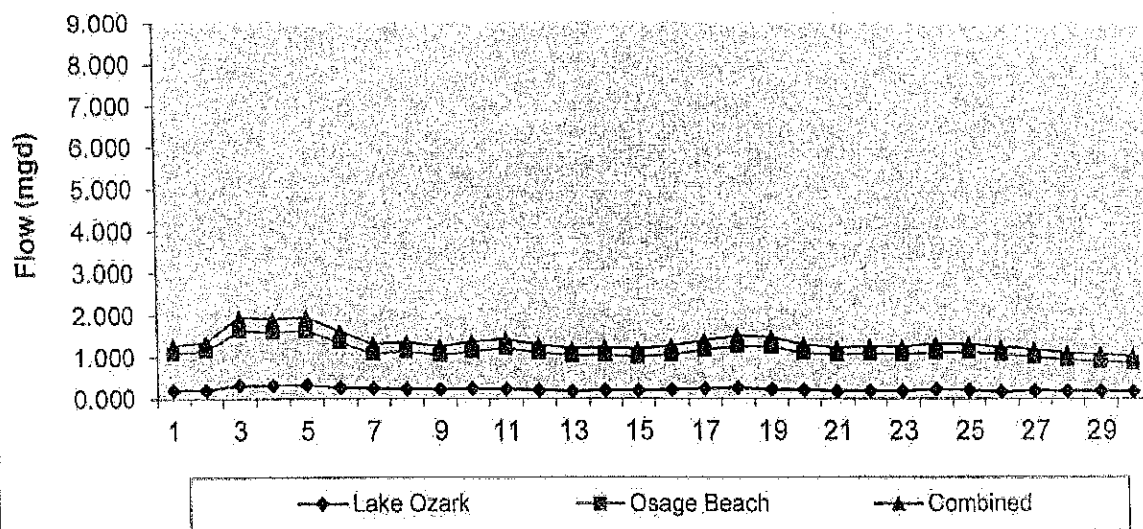
- We are still waiting on some numbers from vendors for the 5-year CIP and should have them for the November Joint Sewer Board meeting.
- We have contacted multiple City's wastewater treatment plants concerning the cost of what they charge for hauled waste/septic haulers fees for dumping in their plants and have concluded that we are already a little higher than most but would recommend raising the dump fee to .05 cents per gallon after we use up all the old forms that we have.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF September 2022

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-Sep	0	0.198	1.091	1.289	15.4	84.6	278	130	200	202	96	226
2-Sep	0	0.208	1.144	1.352	15.4	84.6						
3-Sep	1	0.315	1.634	1.949	16.2	83.8						
4-Sep	0	0.313	1.594	1.907	16.4	83.6						
5-Sep	0	0.322	1.630	1.952	16.5	83.5						
6-Sep	0	0.266	1.352	1.618	16.4	83.6						
7-Sep	0	0.241	1.077	1.318	18.3	81.7						
8-Sep	0	0.230	1.132	1.362	16.9	83.1						
9-Sep	0	0.213	1.046	1.259	16.9	83.1	170	135	185	134	106	166
10-Sep	0	0.235	1.130	1.365	17.2	82.8						
11-Sep	1	0.228	1.212	1.440	15.8	84.2						
12-Sep	0	0.198	1.102	1.300	15.2	84.8						
13-Sep	0	0.173	1.034	1.207	14.3	85.7						
14-Sep	0	0.202	1.045	1.247	16.2	83.8						
15-Sep	0	0.191	1.005	1.196	16.0	84.0	248	155	165	256	140	230
16-Sep	0	0.216	1.061	1.277	16.9	83.1						
17-Sep	0	0.241	1.169	1.410	17.1	82.9						
18-Sep	0	0.259	1.263	1.522	17.0	83.0						
19-Sep	0.2	0.220	1.254	1.474	14.9	85.1						
20-Sep	0	0.206	1.102	1.308	15.7	84.3						
21-Sep	0	0.179	1.060	1.239	14.4	85.6						
22-Sep	0.5	0.186	1.082	1.268	14.7	85.3	400	145	233	464	208	290
23-Sep	0	0.177	1.071	1.248	14.2	85.8						
24-Sep	0	0.221	1.107	1.328	16.6	83.4						
25-Sep	0	0.199	1.116	1.315	15.1	84.9						
26-Sep	0	0.165	1.064	1.229	13.4	86.6						
27-Sep	0	0.188	0.994	1.182	15.9	84.1						
28-Sep	0	0.173	0.927	1.100	15.7	84.3						
29-Sep	0	0.181	0.887	1.068	16.9	83.1						
30-Sep	0	0.155	0.853	1.008	15.4	84.6	248	175	180	234	156	146
SUM	2.4	6.499	34.238	40.737								
AVG		0.217	1.141	1.358	16	84	269	148	193	258	141	212
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

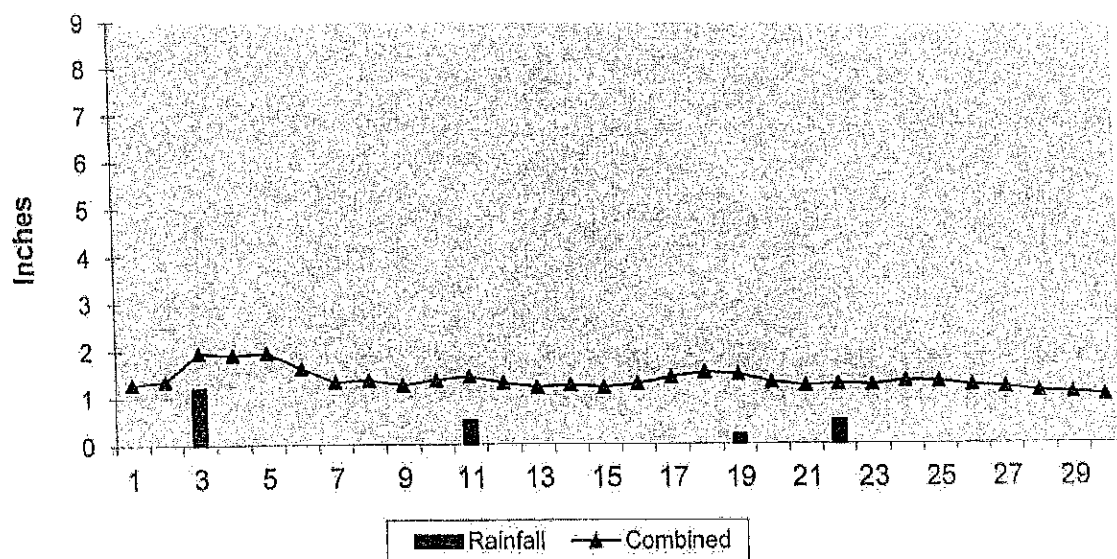
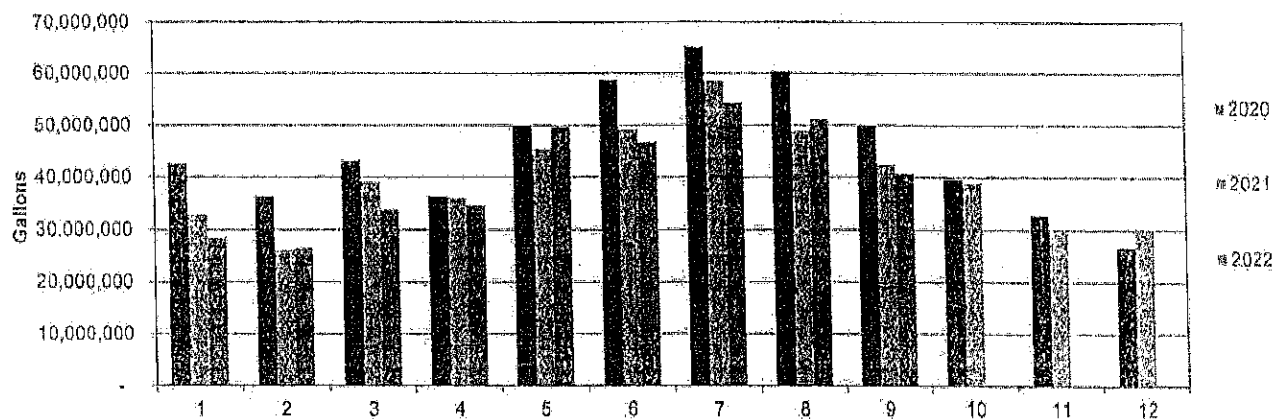


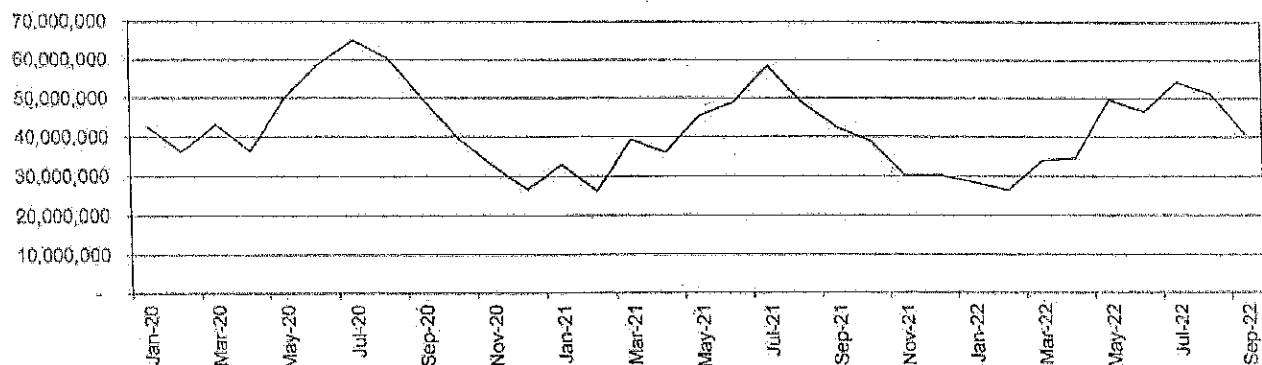
TABLE B
JOINT SEWER BOARD
Monthly Flows

2020	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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	4.8	50,936,000	87%	7,780,000	13%	58,716,000	100%
July	6.9	56,437,000	87%	8,616,000	13%	65,053,000	100%
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%	39,621,000	100%
November	4.3	27,630,000	84%	5,102,000	16%	32,732,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	26,698,000	100%
	61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695,000	85%	7,390,000	15%	49,085,000	100%
July	6.9	49,378,000	85%	9,000,000	15%	58,378,000	100%
August	1.8	41,691,000	85%	7,211,000	15%	48,902,000	100%
September	3.1	36,185,000	85%	6,306,000	15%	42,491,000	100%
October	6.0	32,925,000	85%	5,987,000	15%	38,912,000	100%
November	0.8	25,192,000	83%	5,025,000	17%	30,217,000	100%
December	2.3	25,041,000	82%	5,317,000	18%	30,358,000	100%
	52.2	403,341,000	84%	74,860,000	16%	478,201,000	100%
2022	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100%
May	9.1	41,076,000	83%	8,597,000	17%	49,673,000	100%
June	3.3	39,125,000	84%	7,563,000	16%	46,688,000	100%
July	2.6	45,728,000	84%	8,591,000	16%	54,319,000	100%
August	6.8	42,549,000	83%	8,716,000	17%	51,265,000	100%
September	2.4	34,238,000	84%	6,499,000	16%	40,737,000	100%
October							
November							
December							
	41.1	305,014,000	83%	61,145,000	17%	366,159,000	100%

Monthly Influent Flow
Figure 3A

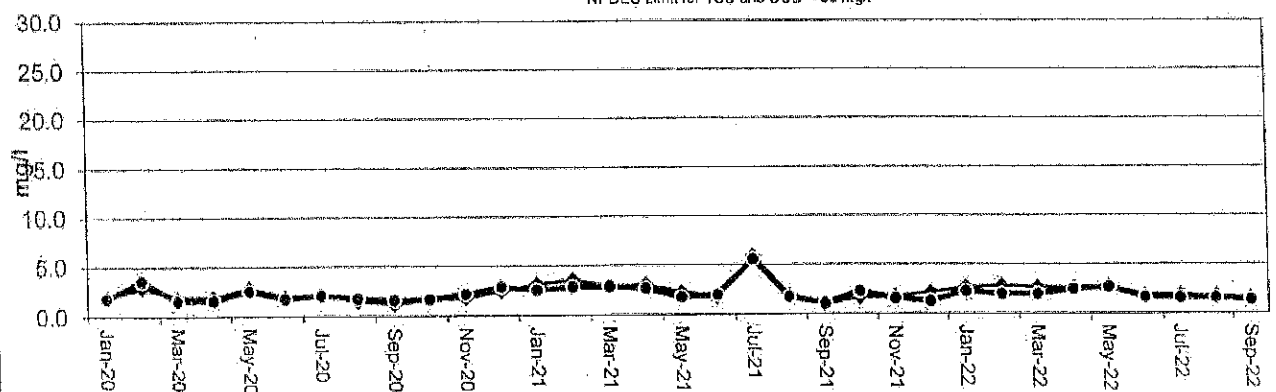


Monthly Influent Flow
Figure 3B

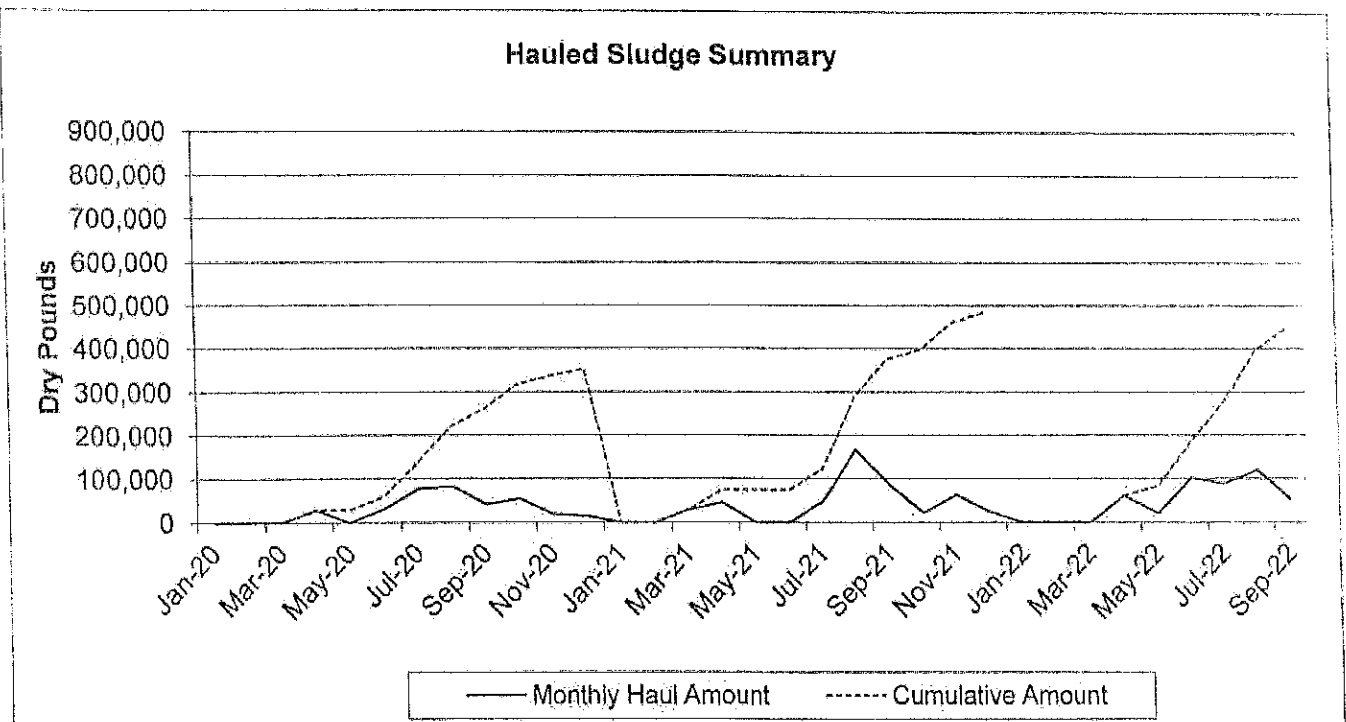
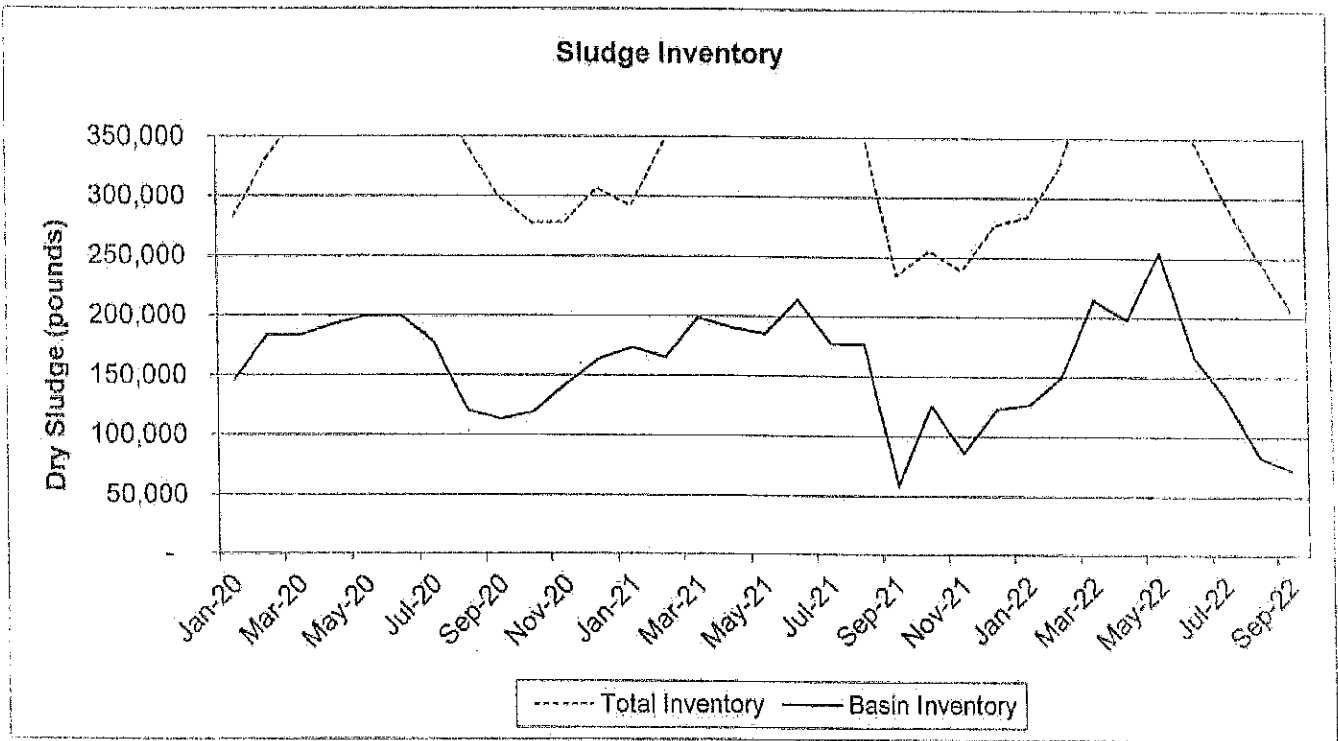


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

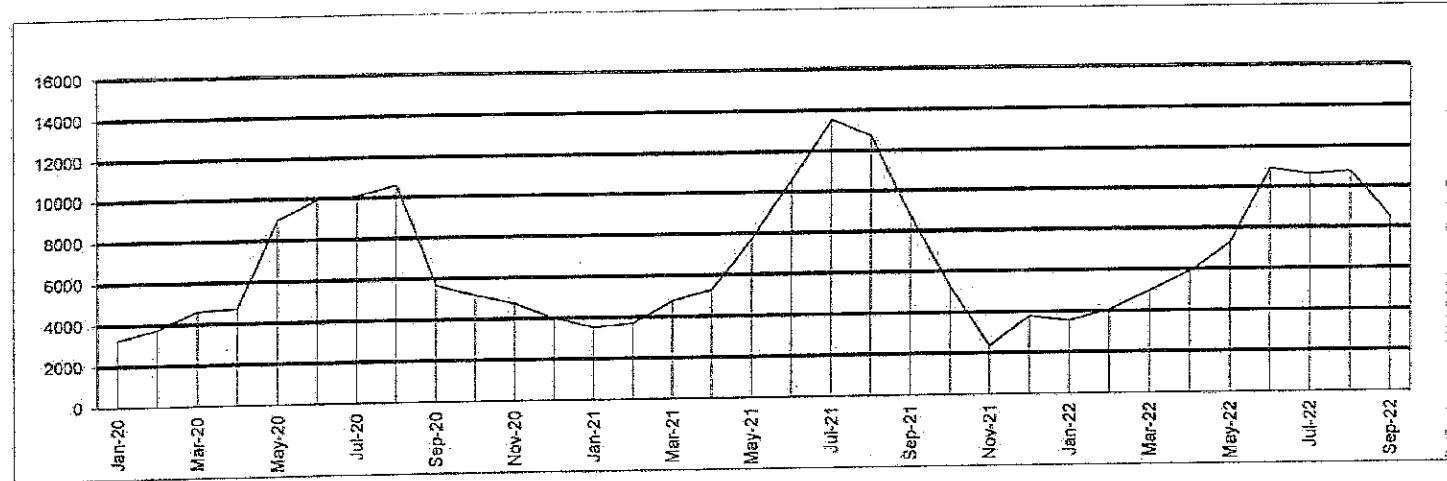


	Hauled Sludge					Basin Depths				Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS		Total Dry		Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory		Loads	Gallons
Jan-20	0	-	0	3.9%	-	6.0	4.0	0.0	450,000	146,387	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	330,875		23	57,000
Mar-20	0	-	0	3.9%	-	5.5	7.0	0.0	562,500	192,959	2.0	5.0	1.0	5,760	5,940	3,767,762	163,825	0.00586	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	3.9%	-	6.0	8.0	0.0	630,000	199,660	1.0	7.0	1.0	6,010	6,110	3,785,824	191,322	0.00506	390,981		35	83,000
Jun-20	25	92,500	31,560	4.1%	60,975	6.0	7.0	0.0	585,000	177,054	6.0	7.0	0.5	7,050	7,120	3,852,620	227,647	0.00709	427,875		6	18,000
Jul-20	69	255,300	77,268	3.6%	138,243	5.0	7.0	0.0	405,000	119,953	7.0	7.0	1.0	6,890	7,380	3,892,096	231,803	0.00714	408,656		88	208,000
Aug-20	38	140,600	41,627	3.5%	263,165	5.0	4.0	0.0	382,500	113,246	6.0	6.0	1.0	6,530	7,400	3,856,572	224,021	0.00997	343,974		67	158,000
Sep-20	45	166,500	55,298	4.0%	318,454	5.0	3.0	0.0	360,000	119,563	1.0	1.0	0.5	6,000	6,200	3,657,238	166,658	0.0061	299,304		45	104,500
Oct-20	18	86,600	19,255	3.5%	337,709	4.0	4.5	0.0	495,000	143,111	1.0	1.0	1.0	4,960	5,070	3,678,952	168,015	0.00515	277,576		16	32,000
Nov-20	11	40,700	14,843	4.4%	352,552	5.0	5.5	0.0	450,000	164,112	1.0	0.0	0.5	4,780	4,090	3,639,476	134,465	0.00443	277,576		16	38,000
Dec-20	0	-	0	4.4%	-	4.5	3.5	0.0	472,500	173,389	6.0	0.0	1.0	5,030	4,360	3,639,476	142,508	0.0047	306,620		33	69,000
Jan-21	0	-	0	4.4%	-	7.0	7.0	0.0	450,000	165,132	6.0	8.0	0.0	5,490	5,750	3,830,906	179,558	0.00562	344,690		63	205,500
Feb-21	0	-	0	4.4%	-	5.0	5.0	0.0	585,000	198,549	5.0	5.0	0.5	6,830	6,330	3,746,048	205,573	0.00638	404,122		28	69,500
Mar-21	23	85,100	28,883	4.1%	28,883	6.0	7.0	0.0	607,500	190,582	2.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957		32	70,000
Apr-21	39	144,300	45,269	3.8%	74,152	6.0	7.0	0.0	585,000	185,398	12.0	14.0	1.0	8,200	6,330	4,123,002	215,427	0.00627	400,826		48	128,500
May-21	0	-	0	3.8%	-	6.0	7.0	0.0	675,000	213,921	6.0	7.5	2.0	7,250	8,060	3,926,643	234,903	0.00717	448,824		53	151,500
Jun-21	0	-	0	3.8%	-	7.0	8.0	0.0	540,000	177,658	6.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823	457,007		117	289,000
Jul-21	40	144,000	47,378	3.9%	121,530	5.0	7.0	0.0	585,000	176,693	7.0	1.0	0.5	6,160	5,840	3,657,238	163,008	0.0060	359,701		66	163,000
Aug-21	163	550,800	166,363	3.6%	287,893	7.0	6.0	0.0	225,000	59,257	1.0	1.0	0.5	5,320	6,160	3,657,238	175,383	0.0058	234,640		62	159,500
Sep-21	92	331,200	87,226	3.2%	375,119	2.0	3.0	0.0	337,500	125,173	1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043	255,554		34	80,000
Oct-21	17	61,200	22,698	4.4%	397,817	3.5	4.0	0.0	225,000	88,442	0.5	1.0	0.0	5,130	4,890	3,626,643	152,138	0.0050	238,580		37	83,000
Nov-21	48	165,600	63,621	4.6%	461,439	3.0	2.0	0.0	292,500	122,581	1.0	1.0	0.0	4,540	5,630	3,635,524	154,179	0.0051	276,759		27	62,000
Dec-21	16	57,600	24,139	5.0%	485,577	4.0	2.5	0.0	337,500	126,664	1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,800		13	27,000
Jan-22	0	-	0	4.5%	-	4.5	3.0	0.0	450,000	150,120	4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513		32	66,000
Feb-22	0	-	0	4.0%	-	7.0	3.0	0.0	585,000	214,672	9.0	10.0	0.0	5,870	5,760	3,937,478	190,464	0.0058	405,135		23	48,000
Mar-22	0	-	0	4.4%	-	6.0	7.0	0.0	540,000	198,255	10.0	10.0	1.0	7,100	5,600	3,998,658	211,765	0.0064	410,021		52	124,500
Apr-22	47	169,200	62,120	4.4%	62,120	7.0	5.0	0.0	697,500	254,503	2.0	10.0	1.0	6,290	6,630	3,856,572	207,778	0.0065	462,261		37	85,000
May-22	16	57,500	21,017	4.4%	83,137	8.5	7.0	0.0	495,000	167,049	4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297		42	93,500
Jun-22	84	302,400	102,052	4.0%	185,189	7.0	4.0	0.0	427,500	132,051	8.0	3.0	1.5	4,740	5,860	3,860,524	186,296	0.0052	298,348		33	68,500
Jul-22	80	288,000	98,961	3.7%	274,150	7.0	2.5	0.0	270,000	83,629	1.5	1.0	0.5	5,490	5,420	3,666,119	166,789	0.0055	250,418		168	300,000
Aug-22	108	388,800	120,426	3.7%	394,576	2.0	4.0	0.0	247,500	72,893	1.0	1.0	0.5	4,650	4,160	3,657,238	134,359	0.0044	207,251		78	168,000
Sep-22	51	183,600	54,073	3.5%	448,649	3.5	2.0	0.0														

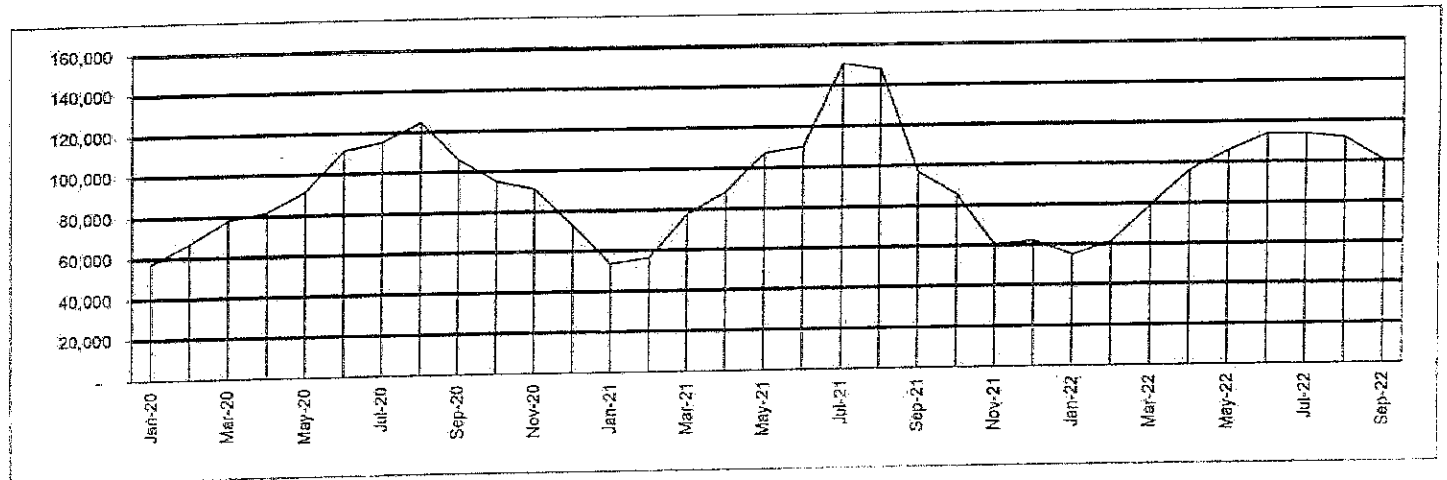


	<u>Electric Cost</u>	<u>Kilowatts Used</u>
Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78,070
Apr-20	4741	81,780
May-20	8962	91,550
Jun-20	9959	111,680
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220
Oct-20	5155	94,870
Nov-20	4734	90,890
Dec-20	4009	73,020
Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130
Jul-21	13533	150,740
Aug-21	12737	147,810
Sep-21	8751	96,600
Oct-21	5233	85,530
Nov-21	2348	60,370
Dec-21	3776	62,100
Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160
May-22	7292	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470

Electric Cost



Kilowatts Used





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

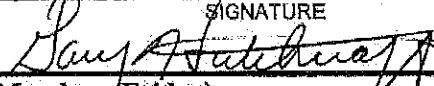
NAME OF FACILITY						LOCATION ADDRESS & CITY						COUNTY/REGION			
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road						Miller/SWRO			
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Sep-22		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT						EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N 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	200	226		23.7	1.448	7.7	1.3	0.9		8.5		24.0	99.4	99.6
2	6.8				23.6	1.678	7.7				8.4		24.1		
3	7.0				23.4	2.327	7.8				8.5		23.3		
4	7.3				23.3	2.208	7.7				8.6		23.6		
5	7.1				23.9	2.272	7.6				8.5		24.1		
6	7.0				23.5	1.898	7.8				8.4	< 20	24.0		
7	6.9			27.0	23.5	1.641	7.8			0.04	8.6		24.0		
8	7.0				23.2	1.646	7.7				8.6		23.5		
9	7.0	185	166		23.5	1.420	7.8	2.4	1.2		8.6		23.6	98.7	99.3
10	7.5				22.4	1.702	7.9				8.6		22.9		
11	7.6				22.0	1.749	7.8				8.6		22.2		
12	6.9				22.6	1.638	7.5				8.8	< 20	22.6		
13	7.1				22.8	1.498	7.8				7.8		22.2		
14	7.0			7.1	22.8	1.554	7.9			0.02	8.8		22.0		
15	7.2	165	230		22.5	1.404	7.9	1.2	1.0		8.8		22.2	99.3	99.6
16	7.1				23.0	1.582	7.9				8.7		22.4		
17	7.1				22.9	1.681	7.9				8.7		22.4		
18	7.3				23.2	1.863	7.6				8.5		23.1		
19	7.0				23.6	1.806	8.0				8.5	< 20	23.9		
20	7.1				23.1	1.636	7.8				8.5		23.7		
21	6.9			11.23	23.1	1.385	7.8			0.02	8.5		23.8		
22	6.9	233	290		22.7	1.605	7.7	1.1	1.7		8.5		23.1	99.5	99.4
23	7.2				22.5	1.630	7.7				8.8		22.4		
24	6.9				22.5	1.688	7.3				8.9		21.2		
25	7.0				21.8	1.635	7.6				9.0		21.4		
26	7.1				21.2	1.544	7.7				9.0	< 20	20.8		
27	7.0				21.1	1.527	7.6				9.2		20.4		
28	7.2			17.7	21.0	1.465	7.7			0.02	9.4		19.9		
29	7.0				20.9	1.450	7.7				9.4		19.3		
30	7.1	180	146		19.6	1.264	7.6	1.7	2.2		9.4		18.7	99.1	98.5
Total						49.844									
Avg		193	212	15.8	22.6	1.661		1.5	1.4	0.03	8.7	10.0	22.5	99.2	99.3
Min	6.8	165	146	7.1	19.6	1.264	7.3	1.1	0.9	0.02	7.8	< 20	18.7	98.7	98.5
Max	7.6	233	290	27.0	23.9	2.327	8.0	2.4	2.2	0.04	9.4	< 20	24.1	99.5	99.6

MONTHLY EFF MONITORING				QUARTERLY EFF MONITORING				MONTHLY INF MONITORING		
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium mg/L	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L
1										
2										
3										
4										
5										
6										
7	4.5	1.2	4.3					5.3	36.7	<0.10
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	4.5	1.2	4.3					5.3	36.7	<0.10
Avg	4.5	1.2	4.3					5.3	36.7	<0.10
Min	4.5	1.2	4.3					5.3	36.7	<0.10
Max	4.5	1.2	4.3					5.3	36.7	<0.10

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	*RAIN Inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1		1.6	5,340	750	23.6	1.4	5,440	730	23.4	64	0	7:30
2		1.4	5,170	710	24.1	1.2	5,010	650	23.9	73	0	7:30
3		1.8	5,160	810	23.1	1.4	5,270	830	23.3	67	1.2	7:30
4		1.9	4,820	810	23.5	1.5	4,950	810	23.5	68	0	7:30
5		2.0	4,070	720	24.0	1.0	5,590	870	24.0	71	0	7:30
6		1.2	4,640	750	23.6	1.1	5,340	830	23.7	69	0	7:30
7		1.4	5,420	860	23.5	1.3	5,250	840	23.5	66	0	7:30
8		2.1	4,950	810	23.1	1.9	5,650	830	23.5	63	0	7:30
9		1.7	5,180	830	23.3	2.4	4,830	800	23.3	63	0	7:30
10		2.0	6,100	850	22.9	2.5	5,910	630	23.0	65	0	7:30
11		2.0	4,900	710	22.6	2.5	4,780	660	22.7	66	0.5	7:30
12		1.7	5,020	650	22.2	2.1	6,430	800	22.4	55	0	7:30
13		2.0	5,010	780	21.8	1.2	5,360	860	21.9	57	0	7:30
14		1.5	5,440	850	21.6	2.0	5,180	770	21.8	61	0	7:30
15	12,910	2.4	4,990	840	22.2	2.6	5,090	770	22.0	61	0	7:30
16		2.0	4,980	750	22.2	1.6	5,090	790	22.2	63	0	7:30
17		3.2	4,180	660	22.3	2.4	5,430	800	22.4	68	0	7:30
18		2.5	3,740	650	23.2	1.7	5,320	800	23.2	72	0	7:30
19	6,305	1.9	4,420	590	23.8	1.2	5,580	820	23.7	72	0.2	7:30
20	4,203	1.5	4,470	650	23.5	1.3	5,140	850	23.5	69	0	7:30
21	3,963	1.9	3,860	620	23.6	2.2	4,570	710	23.7	69	0	7:30
22	11,559	2.1	4,330	620	22.7	1.4	4,770	740	22.9	63	0.5	7:30
23		1.8	4,240	680	22.1	2.6	4,590	750	22.2	61	0	7:30
24		3.5	4,380	650	21.2	2.6	4,930	710	21.5	59	0	7:30
25		2.8	4,610	700	21.3	2.9	4,430	670	21.5	61	0	7:30
26		2.7	4,410	670	20.3	2.4	4,870	700	20.6	51	0	7:30
27		2.3	4,440	640	19.8	2.1	4,750	740	20.0	50	0	7:30
28	6,725	2.6	4,700	650	18.8	3.2	4,920	720	19.3	50	0	7:30
29		3.4	4,090	630	18.7	3.4	4,530	640	19.1	47	0	7:30
30	8,407	3.4	4,650	620	18.1	4.1	4,160	500	18.5	48	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	10/6/2022
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	10/6/2022

*Required Daily (Monday -Friday)

**Required 1/week

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	001M
Monitoring Period	
9/1/22	9/30/22
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	2.327	1.661	Mgal/d
Mon. Location.: End of Pipe	*****;*****	*****;*****	*****;*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured							
Frequency: Daily							
BOD, 5-day, 20 deg. C	*****	2.4	1.5	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	2.2	1.4	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Escherichia coli (E. coli)	*****	<20	10.0	#/100mL	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	7 Day Geo.:630	30 Day Geo. Mean:126		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Weekly							
Phosphorus, total (as P)	4.5	*****	4.5	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	1.2	*****	1.2	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	4.3	*****	4.3	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, ammonia total (as	0.04	*****	0.03	mg/L	*****	*****	*****

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
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State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

N)							
Mon. Location: End of Pipe	Daily Max.:12.1	****,****	Monthly Avg.:1.8		****,****	****,****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
pH	7.3	****	8.0	SU	****	****	****
Mon. Location: End of Pipe	Minimum:6.0	****,****	Maximum:9.0		****,****	****,****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	****	****	98.7	%	****	****	****
Mon. Location: End of Pipe	****,****	****,****	Monthly Avg. Min.:85		****,****	****,****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	****	****	98.5	%	****	****	****
Mon. Location: End of Pipe	****,****	****,****	Monthly Avg. Min.:85		****,****	****,****	
Sample Type: Calculated							
Frequency: Monthly							
Comments:							

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	INFIM
Monitoring Period	
9/1/22	9/30/22
NOD1:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
BOD, 5-day, 20 deg. C	*****	*****	193	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Total Suspended Solids (TSS)	*****	*****	212	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, ammonia total (as N)	27.0	*****	15.8	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Phosphorus, total (as P)	5.3	*****	5.3	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, Kjeldahl, total (as N)	36.7	*****	36.7	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrite plus nitrate total (as N)	<0.10	*****	<0.10	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								

Comments:

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

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.

eSignature Gary Hutchcraft	Submission Date October 6, 2022	User Phone Number (573)365-0455
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LAKE OZARKOSAGE BEACH WYTP
Operation Report

For SEPTEMBER 2022
10/10

DATE	WELL	PLANT FLOW										ENVIRONMENTAL CONDITIONS										PLANT EFFICIENCY										WATER METER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp 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Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water	Temp Air	Temp Water

The following abbreviations: Rain, Snow, Overcast, Cloud, Partly cloudy

Prepared by: GH, JFH

Approved by: GH

Date: 10/6/2022

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2023 Operating Budget

Cash & Equivalent Balance January 1, 2023 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

342,405

TOTAL Cash & Equivalent Balance January 1, 2023

\$ 342,405

Revenue

Osage Beach

481,940

Lake Ozark

98,710

Misc.

-

Interest

2,500

Waste Haulers' Fee

56,000

TOTAL Revenues

\$ 639,150

Expenditures

Transfer to Replacement Fund

60,000

Equipment & Building Repair/main.

193,500

Insurance

23,000

Vehicle Maintenance

8,000

Contract Management

354,255

Electric

81,000

Utilities Misc.

5,000

Bank Charges

-

Audit

2,800

Professional Services

-

Equipment Purchase - New

-

TOTAL Expenditures

\$ 727,555

Cash & Equivalent Balance December 31, 2023 - Estimated

Restricted - Fund Reserves

Unrestricted

254,000

TOTAL Cash & Equivalent Balance December 31, 2023

\$ 254,000

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2023 Operating Budget

REVENUE	FY2019 Actual	FY2020 Actual	FY2021 Actual	FY2022 Budget	FY2022 Projected Year-End	FY2023 Budget
Operating Revenue						
3020 Osage Beach - 83% - 5% INCREASE	475,092	475,836	465,203	470,050	468,990	481,94
3010 Lake Ozark - 17% - 5% INCREASE	74,908	74,164	84,797	82,950	94,010	98,71
3030 Misc.	-	4,500	22,000	-	1,095	-
3100 Interest	4,287	4,019	2,700	2,500	2,000	2,50
3030 Waste Haulers' Fee	26,260	39,320	60,520	56,000	55,000	56,00
Total Franchise Fees	\$ 580,547	\$ 597,839	\$ 635,220	\$ 611,500	\$ 611,095	\$ 639,15
Total General Fund Revenues	\$ 580,547	\$ 597,839	\$ 635,220	\$ 611,500	\$ 611,095	\$ 639,15

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Operating Budget

Expenditures	FY2019 Actual	FY2020 Actual	FY2021 Actual	FY2022 Budget	FY2022 Projected Year-End	FY2023 Budget
Operations and Maintenance						
4000 Transfer to Equip. Replace. Fund	41,604	71,604	143,608	55,000	55,000	60,00
4020 Equip & Bldg. Repair/Main.	104,063	26,299	104,853	142,000	66,000	193,50
4140 Insurance	18,761	19,865	21,493	22,000	22,088	23,00
4150 Vehicle Repair/Main.	5,480	12,480	11,100	8,000	8,000	8,00
4170 Contract Management	299,592	305,580	308,640	327,158	331,080	354,25
4175 Electric Service	73,277	75,077	82,228	92,000	78,000	81,00
4176 Utilities Misc.	3,717	2,486	3,528	3,750	4,900	5,00
4190 Bank Charges	176	33	-	-	12	-
4200 Audit	2,400	2,648	2,600	2,700	2,700	2,80
4240 Equipment - New Generator	145,247	-	400	500	-	-
Total Operations and Maintenance	\$ 694,317	\$ 516,072	\$ 678,450	\$ 653,108	\$ 567,780	\$ 727,55

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500
Regular Maintenance	20,000
UV Bulbs, Quartz Sleeves, Misc.	10,000
Painting RAS basement piping galary & rm	30,000
Rock for road	3,000
Sandblasting & paint Clairifier #3	30,000
Take #2 Aeration Basin, grit removal	100,000

193,500

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2023 Equipment Replacement Budget

Cash & Equivalent Balance January 1, 2023 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

487,377

TOTAL Cash & Equivalent Balance January 1, 2023

\$ 487,377

Revenue

Interest

4,000

Transfer From Other Funds

60,000

TOTAL Revenues

\$ 64,000

Expenditures

Replacement

103,000

TOTAL Expenditures

\$ 103,000

Cash & Equivalent Balance December 31, 2023 - Estimated

Restricted - Fund Reserves

448,377

Restricted - Other

Unrestricted

TOTAL Cash & Equivalent Balance December 31, 2023

\$ 448,377

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2023 Equipment Replacement Budget

REVENUE	FY2019 Actual	FY2020 Actual	FY2021 Actual	FY2022 Budget	FY2022 Projected Year-End	FY2023 Budget
<u>Replacement Revenue</u>						
3000 Transfer from Operating	41,604	71,604	143,608	55,000	55,000	60,000
3100 Interest Earned	9,002	8,986	5,508	5,000	3,000	4,000

Total Revenue

\$ 60,606	\$ 80,590	\$ 149,116	\$ 60,000	\$ 58,000	\$ 64,000
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LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2023 Equipment Replacement Budget

EXPENDITURES	FY2019 Actual	FY2020 Actual	FY2021 Actual	FY2022 Budget	FY2022 Projected Year-End	FY2023 Budget
<u>Replacement Expenditures</u>						
4000 Replacement Expenses	\$41,281	\$85,258	\$202,162	\$59,500	60,000	103,000
	<u>\$41,281</u>	<u>\$85,258</u>	<u>\$202,162</u>	<u>\$59,500</u>	<u>\$60,000</u>	<u>\$103,000</u>

DETAIL: Equipment & Replacement

Replace wooden doors w/fiberglass	3,000
Replace flow meter for the effluent, L.O., and RAS	25,000
Replace aerator gear box - new	75,000
	<u>103,000</u>

CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2023

	4000/ER	Notes
1. Replace aerator #1 gearbox	(estimated) \$75,000	Carryover if not completed in 2022
2. Replace wooden doors w/ fiberglass doors, a couple per year if needed	(estimated) \$3,000	Carryover
3. Replacement flow meter for the Effluent, Lake Ozark, Osage Beach and RAS.	(estimated) \$25,000	New
Subtotal	\$103,000	
	4020	
4. Annual fee for Mission autodialer (software fee)	(estimated) \$500	Annual Fee
5. Regular Plant Maintenance, including any pump rebuilds if needed and the generator maintenance agreement & diesel	(estimated) \$20,000	Annual Maint.
6. UV Bulbs, Quartz Sleeves and Spare Parts	(estimated) \$10,000	Annual Maint.
7. Painting of RAS basement piping galary & room	(estimated) \$30,000	New
8. Sandblast & Paint Clarifier #3	(estimated) \$30,000	New
9. Rock for the road.	(estimated) \$3,000	Annual Maint.
10. Take #2 Aeration Basin down, removal of grit by Contractor, repair or replace valves and all required lab testing on grit	(estimated) \$100,000	Carryover
Subtotal	\$193,500	
	4150	
11. Vehicle Maintenance	(estimated) \$8,000	Annual Maint.
Subtotal	\$8,000	
Total	\$304,500	