OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
May 21, 2024 @ 4:00 p.m.
LAKE OZARK CITY HALL

1. **CALL TO ORDER**

2. **ROLL CALL**

Mayor, Michael Harmison
Mayor, Dennis Newberry
City Administrator, Harrison Fry
City Administrator, Jeana Woods
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Member at Large, Gary Hamner
Public Works Manager, Osage Beach, Zachary Wilber

3. **PUBLIC COMMENT**

4. **MINUTES**

Regular Meeting: March 19, 2024	**1-2**

5. **REPORTS**

Bills List	**3-13**
Revenue Budget Analysis	**14-15**
Expenditure Budget Analysis	**16-17**
Income & Expense Summary	**18-19**

6. **ALLIANCE REPORT OF OPERATIONS** **20--43**

7. **APPROVAL OF FLOW CHARTS**

8. **OLD BUSINESS**

A. Board update.

9. **NEW BUSINESS**

A. Request for a 30-day project extension for the RAS pump replacement project.
B. Review and discuss the annual meeting to be held in May each year. Article VII
C. Discussion and vote to elect a Chair, Vice Chair, Secretary, and a Treasure. Article IV
D. Discussion and set the meeting dates, times, and locations for June 2024 to May 2025. Article VIII
E. Discussion of the Joint Sewer Board New Service area connection policy needs to be placed on the May agenda as it was mistakenly left off the April agenda final draft.
F. Review of the Lake Ozark/Osage Beach 2023 Annual Audit **pg 45**

10. **ADDITIONAL DISCUSSION ITEMS**

11. **ADJOURNMENT**

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – March 19th, 2024

CALL TO ORDER:

Mayor Harmison called the meeting to order at 4:00 pm on Tuesday, March 19th, 2024, at Lake Ozark City Hall.

ROLL CALL:

Mayor, Michael Harmison- Present
Mayor, Dennis Newberry – Present
City Administrator, Harrison Fry - Present
City Administrator, Jeana Woods - Present
Alderman, Kevin Rucker- Present
Alderman, Pat Thompson- Present
Public Works Director, Matt Michalik – Present
Resident Member, Mr. Gary Hamner – Present
Public Works Manager, Zachary Wilber - Present

MINUTES:

Alderman, Pat Thompson, motioned to approve the meeting minutes from January 16th, 2024. The motion was seconded by Alderman, Kevin Rucker and passed unanimously.

REPORTS:

February and March 2024

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

A motion was made by Alderman, Kevin Rucker to approve the Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded City Administrator, Jeana Woods and passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for January was 1.009 mgd. And 0.815 mgd for February. We had 4.8 inches of precipitation measured at the WWTP for January. We had 1.1 inches for February.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 4.2 mg/l and TSS of 2.8 mg/l respectively for January which represents a 97.9 + % or better removal and for February an effluent monthly average BOD of 1.8 mg/l and TSS of 1.0 mg/l, which represents a 99.3 + % or better removal.

The MLSS average for both aeration basins for January was 4,582 mg/l and for February was 5,619 mg/l/ The total dry weight sludge inventory for January totaled 303,243 pounds and February was 310,041 pounds. There were 36 loads of biosolids, or 129,600 gallons land applied for February. We received 23 loads of septage or 43,000 gallons for January and 21 loads of septage or 40,000 galls for February.

APPROVAL OF FLOW CHART:

Alderman, Pat Thompson motioned to approve the flow charts. The motion was seconded by City Administrator, Jeana Woods and was unanimously approved.

OLD BUSINESS:

A. Board Representative Update. A plumbing contractor hired to excavate to repair the hydrant leaking.
B. Matt talked about a change in the style of the new RAS pumps that were approved.

NEW BUSINESS:

A. Reviewed and discussed RFT insurance Coverage. Motion made by City Administrator, Jeana Woods, to approve renewal with Assured Partners. The motion was seconded by City Administrator, Harrison Fry and passed unanimously.

ADDITIONAL DISCUSSION ITEMS: .

A. Updated report for the Capital Replacement Forecast Plan was discussed and reviewed. No approval necessary.
B. Discussion to review and discuss JSB serve area connection polices.

ADJOURNMENT:

With no further business to discuss, a motion was made by City Administrator, Harrison Fry to adjourn. City Administrator, Jeana Woods seconded the motion. The meeting was adjourned at 4:27 pm.

Approved:

Michael Harmison, Mayor	Robin Craig, Clerk

JOINT SEWER BOARD
BILL LIST
MAY 21, 2024

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	$	125,188.79
OPERATING FUND BILLS TO BE PAID:	$	54,732.00
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	$	4,460.31
TOTAL	$	184,381.10

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Paid To:		Description:		Amount:
4176	Allied Services		April	$	78.51
4000	Equipment Replacement Fund		Payment into ER Fund	$	15,000.00
4020	DOC Lubricantion Spec.		Motor Grease	$	70.00
4020	Grainger		Pressure Washer Attachment	$	104.53
4020	Grainger		Pole Brushes, Hose Nozzle	$	101.75
4020	Hogan's Inc.		Sandblast & Paint Clarifier #3	$	43,550.00
4020	John Henry Foster		Filters for UV Airsystem	$	122.41
4020	John Henry Foster		Filters for UV Airsystem	$	565.24
4020	M/C QuickBooks		Grease Cleaner	$	54.99
4020	M/C QuickBooks		Accounting Software	$	30.00
4020	Martin Energy Group		Semi-Annual Main Generator	$	406.00
4020	Menards	63426	Wrench Set	$	24.99
4020	Menards	63455	Return Wrench Set	$	(24.99)
4020	Menards	63456	Pressure Washer Parts	$	29.98
4020	Menards	63540	Pressure Washer Attachments	$	40.94
4020	Menards	63577	Pressure Washer Attachments	$	72.98
4020	Menards	63626	Return Pressure Washer Attach	$	(92.97)
4020	Menards	64148	Parts for spray Nozzle	$	21.16
4020	Menards	64231	Weed Killer & Sprayer	$	277.46
4020	Menards	64462	Bleach & Hook	$	49.46
4020	USA Bluebook		Freight for repair of DO Meter	$	24.33
4020	Woodley Building Main.		Janitorial - April	$	330.00
4150	O'Reilly Auto		Windshield Wiper Blades	$	55.08
4020	O'Reilly Auto		Air Filter for Digester Blower	$	175.20
4150	O'Reilly Auto		Fuel Filter, Heet, Start Fluid	$	15.61
4170	Alliance Water Resources Inc		April	$	30,321.00
4175	Ameren MO		11673321	$	5,649.78
4175	Ameren MO		98041275	$	136.32
4176	Ferrellgas		Rental and Propane	$	797.63
4140	Cincinnati Insurance		Directors & Officers 4/10/24-4/10/25	$	868.00
4140	Cincinnati Insurance		Property & Liability 4/10/24-4/10/25	$	26,159.00
4176	Republic Services		May	$	83.78
4176	AT&T		April & May	$	90.62
			TOTAL	$	125,188.79

JOINT SEWER BOARD
BILL LIST
MAY 21, 2024

OPERATING FUND BILLS TO BE PAID:

Account	Paid To:		Description:		Amount:
4000	Equipment Replacement Fund		Payment into ER Fund	$	8,750.00
4020	Central MO All Service Plumb		Fixed leak and capped fire hydrant	$	4,440.00
4020	G & L Welding		Repair Pista Grit Cyclone	$	299.23
4020	M/C QuickBooks		Accounting Software	$	30.00
4020	Menards	65691	Cleaning/glue Supplies	$	37.03
4020	Menards	66421	Fittings for UV	$	10.98
4020	Menards	64225	Urnal Flush Valve	$	112.99
4020	University of MO Ex.		Soil Sample	$	22.00
4020	USA Blue Book		Repair DO Meter	$	375.86
4020	Xylem Water Solutions		Plug cover for UV System	$	155.00
4020	Woodley Building Main.		Janitorial - May	$	330.00
4150	Dam Steel & Supply		Repair Valve Handle on Trk	$	21.50
4150	Tri-State Truck Ctr		Replace Clearance Lights ST	$	307.70
4170	Alliance Water Resources Inc		April	$	30,321.00
4175	Ameren MO		11673321	$	6,515.90
4175	Ameren MO		98041275	$	102.81
4200	GKC CPAs		Audit 2023	$	2,900.00
			TOTAL	$	54,732.00

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Paid To:	Description:		Amount:
4000	Municipal Equipment	Replace Flow Meter	$	4,460.31
		TOTAL	$	4,460.31

5

HOGAN'S INC.

2787 Carter Rte. M
Van Buren, MO 63965

Phone # (573) 323-8214
Fax # (573) 323-8728

Invoice

Date	Invoice #
3/11/2024	2710

Bill To
JOINT SEWER BOARD PO BOX 1935 LAKE OZARK, MO 65049

RECEIVED
MAR 29 2024

Project	Terms
SEWER PLA...	Net 30

Quantity	Description	Rate	Amount
	Original Contract Price	28,775.00	28,775.00
	Change order to full blast below water line on clarifier instead of sp7 brush off blast, full prime coat of Sherwin Williams Duraplate 235 instead of spot prime, full finish coat of Sherwin Williams Duraplate 235.	18,675.00	18,675.00
	Credit from Sherwin Willams	-1,300.00	-1,300.00
	Credit from Hogan's Inc.	-2,600.00	-2,600.00
	CLARIFIER #3 SANDBLAST & PAINT		
	GL Acct#: 4020 Signature: [signature] Date: 3/28/24		
		Total	$43,550.00

Ameren Missouri

* Pay by phone: 1.866.268.3720
* 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 & Service Details   Service from 03/06/2024 - 04/07/2024 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	03/06 - 04/07	32	Total kWh	Actual	90156.0000	84640.0000	816.0000	100.0000	81600.0000
11673321	03/06 - 04/07	32	Peak kW	Actual	1.0720	0.0000	1.0720	160.0000	171.5200

Usage Summary

Total kWh	81600.0000	Non-Summer kWh	81600.0000
Peak kW	171.5000	Billing Demand	171.5000
Total Billing Demand	171.5000	October Winter Base kW	178.6000
Winter Base Demand	171.5000	Base kWh Ratio	1.0000
Base kWh (HUD)	81600.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	$ 0.04080000	$0.00
Winter Demand Charge	171.50	kW	@	$ 2.30000000	$394.40
Base Energy Charge / Hours Used	25,725.00	kWh	@	$ 0.06630000	$1,706.01
Base Energy Charge / Hours Used	34,300.00	kWh	@	$ 0.04960000	$1,700.17
Base Energy Charge / Hours Used	21,575.00	kWh	@	$ 0.04090000	$882.42
Customer Charge					$110.06
Fuel Adjustment Charge	81,600.00	kWh	@	$ 0.00245000	$200.00
Energy Efficiency Investment Charge	81,600.00	kWh	@	$ 0.00382400	$312.04
Renewable Energy Adjustment	81,600.00	kWh	@	$ 0.00204000	$166.46
				Total Service Amount	$5,549.78
				Total Electric Charges	$5,549.78

Address Changes or Corrections

Name ______________________
Address ______________________
City, State, Zip ______________________
Phone Number ______________________

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ONLINE CREDIT CARD

PHONE 866.268.3720

MAIL STUB & CHECK

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Electric Service Details [illegible] Service from 03/06/2024 - 04/07/2024 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
70843410	03/06 - 04/07	32	Total kWh	Actual	9274.0000	8014.0000	1260.0000	1.0000	1260.0000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Usage Summary

Total kWh	1260.0000	Non-Summer kWh	1260.0000
Winter Base kWh	1000.0000	Current Base kWh	1000.0000
Winter Cur Base kWh	1000.0000	Seasonal kWh	260.0000
Winter Seasonal kWh	260.0000		

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Base Energy Charge	1,000.00	kWh	@	$ 0.06940000	$69.40
Seasonal Energy Charge	260.00	kWh	@	$ 0.05150000	$13.38
Customer Charge					$29.07
Fuel Adjustment Charge	1,260.00	kWh	@	$ 0.00255000	$3.21
Energy Efficiency Investment Charge	1,260.00	kWh	@	$ 0.00373800	$4.71
Renewable Energy Adjustment	1,260.00	kWh	@	$ 0.00204000	$2.57
				Total Service Amount	$130.32
				Total Electric Charges	$130.32

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
March 25, 2024	$119.84

Address Changes or Corrections

Name ____________________
Address ____________________
City, State, Zip ____________________
Phone Number ____________________

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THE CINCINNATI INSURANCE COMPANIES

Statement – Premium Due

Statement Prepared On: 04/18/2024

Questions regarding your insurance coverage:
AssuredPartners of Missouri, LLC (24016)
(573)634-2727

Questions regarding your statement:
Cincinnati Corporate Billing
877-942-2455, *CinciBill@cinfin.com*
Monday-Friday, 7:30 a.m.- 6 p.m. Eastern Time
Saturday, 8 a.m.- noon Eastern Time

000190 128 1000568398 24016 04
LAKE OZARK OSAGE BEACH JOINT SEWER
TREATMENT PLANT
1000 CITY PKWY
OSAGE BEACH MO 65065-5305

Amount Due:	$26,134.00
Due Date:	05/10/2024

Payment Method: Direct Invoice

Account Number: 1000568398
Policy Number(s) with Premium Due:
0484322

Pay Online or by Phone:	*cinfin.com* 800-364-3400 Payments may be made by checking, savings or credit card. We accept Visa®, MasterCard®, Discover® and American Express® cards for online and phone payments. PayPal™, PayPal Credit and Venmo™ are accepted for online payments. All payments confirmed prior to 3 p.m. Eastern Time are applied the same day.
Payment Address:	The Cincinnati Insurance Company P.O. Box 145620 Cincinnati, OH 45250 - 5620
Overnight Payment Address:	The Cincinnati Insurance Company Attention: Corporate Accounts Receivable 6200 South Gilmore Road Fairfield, OH 45014 - 5141

Please detach and return the remittance stub below with your payment.

Central MO All Service Plumbing
187 Wood River Rd
Lake Ozark, MO 65049
573-964-5331
hello@bestplumberatthelake.com

INVOICE

RECEIVED
APR 16 2024

BILL TO
Gary Hutchcraft
Joint Sewer Board c/o Alliance
Water Resources

INVOICE # 9861145
DATE 04/16/2024
TERMS Due Upon Receipt

SERVICE ADDRESS
Treatment Plant

DATE	DESCRIPTION	AMOUNT
03/20/2024	3/20: Technicians dug up where water was coming out of ground and found galvanized 1" line with several holes in it. Replaced galvanized line with CTS. Chalked the pipe and hydro-plugged the wall. Backfilled and cleaned up. 3/21: Took apart the fire hydrant and the guts inside are rusted and must have a plugged weep hole because the barrell is full of water. Hydrant needs to be replaced. 4/11: Dug up fire hydrant and went to replace with new hydrant and discovered new hydrant they bought was a 6" and not a 4" like they had before. Gary asked us to just cap the 4" line. Excavation, labor and materials.	4,440.00

NOTICE TO OWNER:
FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429, RSMO. TO AVOID THIS RESULT, YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.

Accounts not paid within terms are subject to a 1.8% monthly finance charge.

BALANCE DUE **$4,440.00**

FIXED WATER LEAK &
DUG UP BAD FIRE HYDRANT
+ CAPED

GL Acct#: 4020
Signature: Gary Hutchcraft
Date: 4/16/24

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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	$6,515.90
Due Date	05/30/2024
Amount After Due Date	$6,581.06
Previous Statement	$5,649.78
Total Payments	$5,649.78
Payment Received. Thank You!	

Current Detail for Statement 05/08/2024

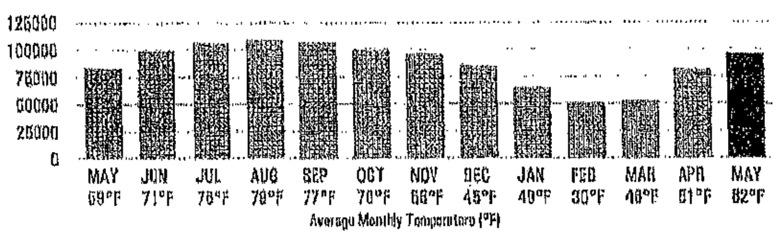
Total Electric Charges $6,515.90

Total Amount Due $6,515.90

RECEIVED MAY 09 2024

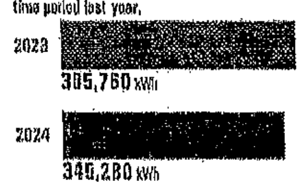
Electric Usage History

Electric Usage In Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using 5.8% less than the same time period last year.



13073
02924 2279575 005612 011523 000170062

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#: 4175
Signature: [signature]
Date: 5/9/24

» See next page for service details.

Keep this portion for your records.

Please return this portion with your payment.

Ameren MISSOURI

☐ Check if you have address changes on back.

Amount Due	Due Date
$6,515.90	May 30, 2024
Delinquent Amount After Due Date	**Account Number**
$6,581.06	4580005832

Amount Enclosed $ ____________

>002924 2279575 0010 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

00600000 0045800058302 000006515900 000006515900

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Electric Service Details

Service from 04/07/2024 - 05/06/2024 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	04/07 - 05/06	29	Total kWh	Actual	86764.0000	85807.2000	956.8000	100.0000	95680.0000
11673321	04/07 - 05/06	29	Peak kW	Actual	2.2690	0.0000	2.2690	100.0000	226.9000

Usage Summary

Total kWh	95680.0000	Non-Summer kWh	95680.0000
Peak kW	226.9000	Billing Demand	226.9000
Total Billing Demand	226.9000	October Winter Base kW	178.6000
Winter Base Demand	178.6000	Base kWh Ratio	0.7871
Base kWh (HUD)	75310.0000	Seasonal kWh (HUD)	20370.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	20,370.00	kWh	@	$ 0.04080000	$831.10
Winter Demand Charge	226.90	kW	@	$ 2.30000000	$521.87
Base Energy Charge / Hours Used	26,790.00	kWh	@	$ 0.06980000	$1,869.94
Base Energy Charge / Hours Used	35,720.00	kWh	@	$ 0.05190000	$1,853.87
Base Energy Charge / Hours Used	12,800.00	kWh	@	$ 0.04090000	$523.52
Customer Charge					$110.55
Fuel Adjustment Charge	95,680.00	kWh	@	$ 0.00255000	$243.98
Energy Efficiency Investment Charge	95,680.00	kWh	@	$ 0.00382400	$365.88
Renewable Energy Adjustment	95,680.00	kWh	@	$ 0.00204000	$195.19
				Total Service Amount	$6,515.90
				Total Electric Charges	**$6,515.90**

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

Address Changes or Corrections

Name ____________________

Address ____________________

City, State, Zip ____________________

Phone Number ____________________

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- ONLINE CREDIT CARD
- MAIL STUB & CHECK

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

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

AMOUNT DUE	$102.81
Due Date	05/30/2024
Amount After Due Date	$103.84
Previous Statement	$136.32
Total Payments	$136.32

Payment Received. Thank You.

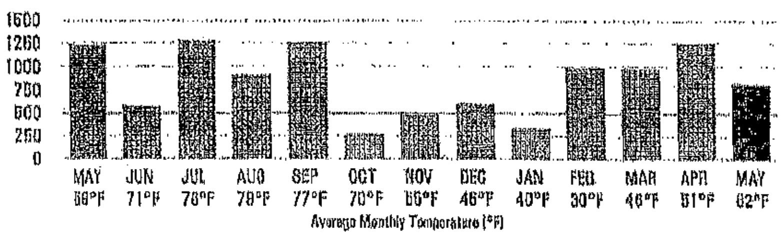
Current Detail for Statement 05/08/2024

Total Electric Charges	$102.81
Total Amount Due	**$102.81**

RECEIVED MAY 09 2024

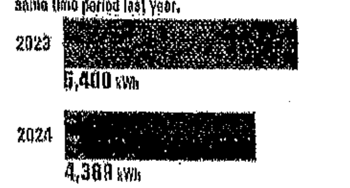
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using **18.7% less** than the same time period last year.



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#: 04175

Signature: [signature]

Date: 5/9/24

» See next page for service details.

Keep this portion for your records.

Please return this portion with your payment.

Ameren MISSOURI

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Amount Due	Due Date
$102.81	May 30, 2024
Delinquent Amount After Due Date	**Account Number**
$103.84	5580005920

Amount Enclosed $ ______

>002926 2279575 0010 092139 10Z

ALLIANCE WATER RESOURCES INC
PO BOX 1905
LAKE OZARK, MO 65049-1905

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

90633000 00558000059200 000000102810 000000102810

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FOCUSED ENERGY. For life.

Electric Service Details

Service from 04/07/2024 - 05/06/2024 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
70843410	04/07 - 05/06	29	Total kWh	Actual	4089.0000	3273.0000	816.0000	1.0000	816.0000
70843410	04/07 - 05/06	29	Peak kW	Actual	62.1700	0.0000	62.1700	1.0000	62.1700

Usage Summary

Total kWh	816.0000	Non-Summer kWh	816.0000
Winter Base kWh	1000.0000	Current Base kWh	816.0000
Winter Cur Base kWh	816.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Base Energy Charge	816.00	kWh	@	$ 0.08940000	$72.95
Seasonal Energy Charge	0.00	kWh	@	$ 0.05180000	$0.00
Customer Charge					$23.07
Fuel Adjustment Charge	816.00	kWh	@	$ 0.00255000	$2.08
Energy Efficiency Investment Charge	816.00	kWh	@	$ 0.00373900	$3.05
Renewable Energy Adjustment	816.00	kWh	@	$ 0.00204000	$1.66
				Total Service Amount	**$102.81**
				Total Electric Charges	**$102.81**

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
April 18, 2024	$138.32

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

Address Changes or Corrections

Name ____________________

Address ____________________

City, State, Zip ____________________

Phone Number ____________________

AmerenMissouri.com/WaysToPay

- ONLINE E-CHECK
- ONLINE CREDIT CARD
- PHONE 866.268.3729
- MAIL STUB & CHECK
- IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION

MONTH-TO-DATE AND YEAR-TO-DATE
REVENUE/BUDGET ANALYSIS
3/31/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 3/31/2024	2024 March Revenue	Percent YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	124,178.08	43,005.16	24%
3010	Lake Ozark	91,794.26	87,143.84	97,552.00	23,405.26	7,803.18	24%
3030	Misc.	1,094.92	234.08	0.00	0.00	0.00	0%
3100	Interest	2,462.35	5,522.07	5,000.00	3,136.24	35.99	63%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	6,825.00	2,575.00	12%
	Total Operating Fund	605,550.23	647,261.98	671,700.00	157,544.58	53,419.33	23%
	E/R Fund Income	3,588.63	15,192.01	12,000.00	4,986.59	302.36	42%
	TOTAL INCOME	609,138.86	662,453.99	683,700.00	162,531.17	53,721.69	24%

MONTH-TO-DATE AND YEAR-TO-DATE

REVENUE/BUDGET ANALYSIS

4/30/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 4/30/2024	2024 April Revenue	Percent YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	167,483.05	43,304.97	33%
3010	Lake Ozark	91,794.26	87,143.84	97,552.00	30,908.62	7,503.36	32%
3030	Misc.	1,094.92	234.08	0.00	0.00	0.00	0%
3100	Interest	2,462.35	5,522.07	5,000.00	4,787.22	1,620.24	96%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	13,725.00	6,900.00	24%
	Total Operating Fund	605,550.23	647,261.98	671,700.00	216,903.89	59,328.57	32%
	E/R Fund Income	3,588.63	15,192.01	12,000.00	6,799.81	1,813.22	57%
	TOTAL INCOME	609,138.86	662,453.99	683,700.00	223,703.70	61,141.79	33%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
3/31/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 3/31/2024	2024 March Expenses	Percent YTD
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000.00	15,000.00	5,000.00	15%
4020	*Maintenance & Repair	60,030.11	84,665.12	64,000.00	7,140.92	3,394.15	11%
4140	Insurance	22,088.00	22,791.00	26,210.00	0.00	0.00	0%
4150	Vehicle Repair/Main	5,999.58	3,255.47	9,000.00	439.93	92.80	5%
4170	Contract Management	331,080.00	353,592.00	374,808.00	90,963.00	30,321.00	24%
4175	Electric	79,890.16	88,547.80	87,000.00	12,189.55	3,925.29	14%
4176	Utilities Misc.	3,694.18	4,579.70	4,700.00	686.78	113.41	15%
4190	Bank Charges	12.00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	620,234.09	668,618.00	126,420.18	42,846.65	19%
	**E/R Expenses	202,161.70	113,313.66	195,000.00	369.98	0.00	0%
	TOTAL EXPENSES	880,612.07	733,547.75	863,618.00	126,790.16	42,846.65	15%

4020 DETAIL: Equip & Bldg. Repair/Main.

Regular Maintenance	20,000
UV Bulbs, Quartz Sleeves, Misc	11,000
Painting RAS basement piping (	30,000
Rock for road	3,000
	64,000.00

DETAIL: Equipment & Replacement

Replace RAS Pumps & Check Vi	195,000
	195,000.00

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
4/30/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 4/30/2024	2024 April Expenses	Percent YTD
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000.00	30,000.00	15,000.00	30%
4020	*Maintenance & Repair	60,030.11	84,665.12	64,000.00	53,074.38	45,933.46	83%
4140	Insurance	22,068.00	22,791.00	26,210.00	868.00	868.00	3%
4150	Vehicle Repair/Main	5,999.58	3,255.47	9,000.00	510.62	70.69	6%
4170	Contract Management	331,080.00	353,592.00	374,808.00	121,284.00	30,321.00	32%
4175	Electric	79,890.16	88,547.80	87,000.00	17,975.65	5,786.10	21%
4176	Utilities Misc.	3,694.18	4,579.70	4,700.00	1,737.32	1,050.54	37%
4190	Bank Charges	12.00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	620,234.09	668,618.00	225,449.97	99,029.79	34%
	**E/R Expenses	202,161.70	113,313.66	195,000.00	369.98	0.00	0%
	TOTAL EXPENSES	880,612.07	733,547.75	863,618.00	225,819.95	99,029.79	26%

4020 DETAIL: Equip & Bldg. Repair/Main.

Regular Maintenance	20,000	
UV Bulbs, Quartz Sleeves, Misc	11,000	
Painting RAS basement piping (	30,000	x
Rock for road	3,000	
	64,000.00	

DETAIL: Equipment & Replacement

Replace RAS Pumps & Check Va	195,000
	195,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
3/31/2024

Beginning Balance	**391,753.38**
Income - Osage Beach	43,005.16
Income - Lake Ozark	7,803.18
Income - Other	-
Income - Waste Haulers' Fees	2,575.00
Interest - Checking	35.99
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers To E/R Fund	(5,000.00)
Expenses	(37,846.65)
Ending Fund Balance	**402,326.06**
Central Bank - NOW Acct.	172,240.52
	-
CD First Bank of the Lake, 2/20/25 #8432	112,128.96
CD First Bank of the Lake, 1/22/25 #8433	118,836.58
	-
Outstanding Checks:	(880.00)
	402,326.06

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
3/31/2024

Beginning Balance	**503,133.20**
Interest - Checking	302.36
Income - CD Interest	-
Transfers From Operating Fund	5,000.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	**508,435.56**
First Bank of the Lake - Money Mkt.	122,303.83
CD First Bank of the Lake, 4/30/25 #8430	116,131.73
CD First Bank of the Lake, 5/07/24 #8434	270,000.00
	-
	-
Outstanding Checks:	-
	508,435.56

OPERATING FUND INCOME AND EXPENSE SUMMARY
4/30/2024

Beginning Balance	**402,326.06**
Income - Osage Beach	43,304.97
Income - Lake Ozark	7,503.36
Income - Other	-
Income - Waste Haulers' Fees	6,900.00
Interest - Checking	35.16
Income - CD Interest	1,585.08
Transfers From E/R Fund	-
Transfers To E/R Fund	(15,000.00)
Expenses	(83,525.39)
Ending Fund Balance	**363,129.24**
Central Bank - NOW Acct.	130,578.62
	-
CD First Bank of the Lake, 2/20/25 #8432	112,128.96
CD First Bank of the Lake, 1/22/25 #8433	120,421.66
	-
Outstanding Checks:	-
	363,129.24

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
4/30/2024

Beginning Balance	**508,435.56**
Interest - Checking	362.66
Income - CD Interest	1,450.56
Transfers From Operating Fund	15,000.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	**525,248.78**
First Bank of the Lake - Money Mkt.	137,666.49
CD First Bank of the Lake, 4/30/25 #8430	117,582.29
CD First Bank of the Lake, 5/07/24 #8434	270,000.00
	-
	-
Outstanding Checks:	-
	525,248.78

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Professional Water and Wastewater Operations

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.

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

(573)874-8080

REPORT OF OPERATIONS

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

Month of April 2024

Submitted by Alliance Water Resources, Inc. for the

May 2024

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 Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	1.9	1.9	N/A	10.0	0.04	< 2.0
Peak Day	2.2	2.6	8.0	< 20.0	0.05	< 2.0
Percent Removal	99.3	99.4	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126	3.1	10
Weekly Average	45	45		630		
Daily Max				N/A	12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.148 MGD or 38% 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 73934 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 23 tanker loads of bio-solids during the month equivalent to a total of 82,800 gallons and 24,950 pounds dry weight solids.

95,537 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 562,500 gallons with a level of 5.5 feet in Tank 1 and 7.0 feet in Tank 2.

WASTEHAULERS

The plant received 56 loads of septage during the month totaling 122,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We put Clarifier #3 back online.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- Municipal Equipment came in on the 3rd of April and installed the flow meter that was fixed under warranty.
- We got a fire hydrant from Core & Main which was the wrong size. We returned it and had Central MO cap the water line so we could get our permanent RAS coolant water back online. It was going to cost approx. another $1,000.00 to adapt it or order the correct 4-inch hydrant.
- Lumix Electric was here on the 15th & 16th of April to install the VFD's for the new RAS pumps.

SAFETY

- We conducted our monthly Safety Meeting on Distracted Driving Prevention on the 10th of April.

REGULATORY AGENCY, INSPECTION AND REPORT

- We filled out the new EDMR on the EPA MoGEM website on the 9th of May.

MISCELLANEOUS AND RECOMMENDATIONS

- We have included a notice from MDNR and please be assured that Alliance has incorporated the cybersecurity measures recommended, regularly updates software, and continues to monitor its operating systems. (see attached)

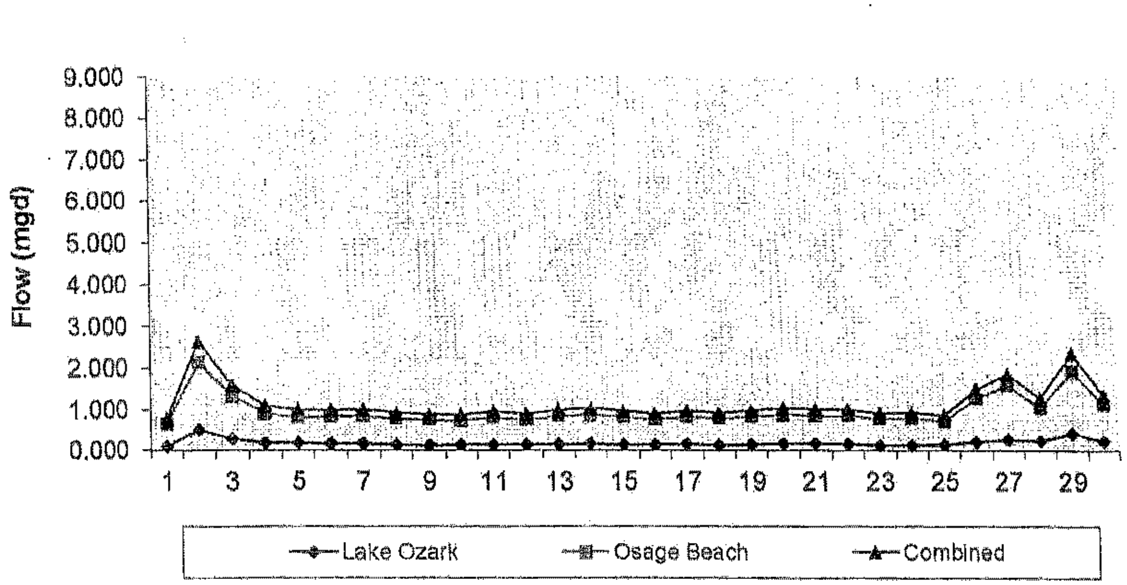
TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF April 2024

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-Apr	0	0.102	0.652	0.754	13.5	86.5						
2-Apr	2.7	0.500	2.131	2.631	19.0	81.0						
3-Apr	0	0.276	1.320	1.596	17.3	82.7						
4-Apr	0	0.184	0.911	1.095	16.8	83.2						
5-Apr	0	0.187	0.811	0.998	18.7	81.3	143	143	255	102	136	396
6-Apr	**0**	**0.165**	**0.824**	**0.989**	16.7	83.3						
7-Apr	**0**	**0.167**	**0.837**	**1.004**	16.6	83.4						
8-Apr	0	0.139	0.780	0.919	15.1	84.9						
9-Apr	0.16	0.123	0.755	0.878	14.0	86.0						
10-Apr	0	0.139	0.731	0.870	16.0	84.0						
11-Apr	0.25	0.142	0.809	0.951	14.9	85.1						
12-Apr	0	0.142	0.752	0.894	15.9	84.1	208	250	225	140	148	224
13-Apr	**0**	**0.149**	**0.843**	**0.992**	15.0	85.0						
14-Apr	**0**	**0.162**	**0.872**	**1.034**	15.7	84.3						
15-Apr	0	0.137	0.823	0.960	14.3	85.7						
16-Apr	0	0.141	0.751	0.892	15.8	84.2						
17-Apr	0	0.153	0.823	0.976	15.7	84.3						
18-Apr	0	0.125	0.792	0.917	13.6	86.4	215	235	285	120	180	332
19-Apr	0.2	0.139	0.822	0.961	14.5	85.5						
20-Apr	**0**	**0.168**	0.878	**1.046**	16.1	83.9						
21-Apr	**0**	**0.170**	**0.845**	**1.015**	16.7	83.3						
22-Apr	0	0.156	**0.850**	1.006	15.5	84.5						
23-Apr	0	0.128	0.784	0.912	14.0	86.0						
24-Apr	0	0.131	0.793	0.924	14.2	85.8						
25-Apr	0	0.142	0.718	0.860	16.5	83.5	258	263	265	226	178	334
26-Apr	1.4	0.212	1.286	1.498	14.2	85.8						
27-Apr	**1.0**	**0.267**	1.601	**1.868**	14.3	85.7						
28-Apr	**0**	**0.225**	**1.057**	**1.282**	17.6	82.4						
29-Apr	1.3	0.410	**1.950**	2.360	17.4	82.6						
30-Apr	0	0.221	1.124	1.345	16.4	83.6						
SUM	7.3	5.502	28.925	34.427								
AVG		0.183	0.964	1.148	16	84	206	223	258	147	161	322

NOTE: BOLD PRINT INDICATES WEEKEND DAYS

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

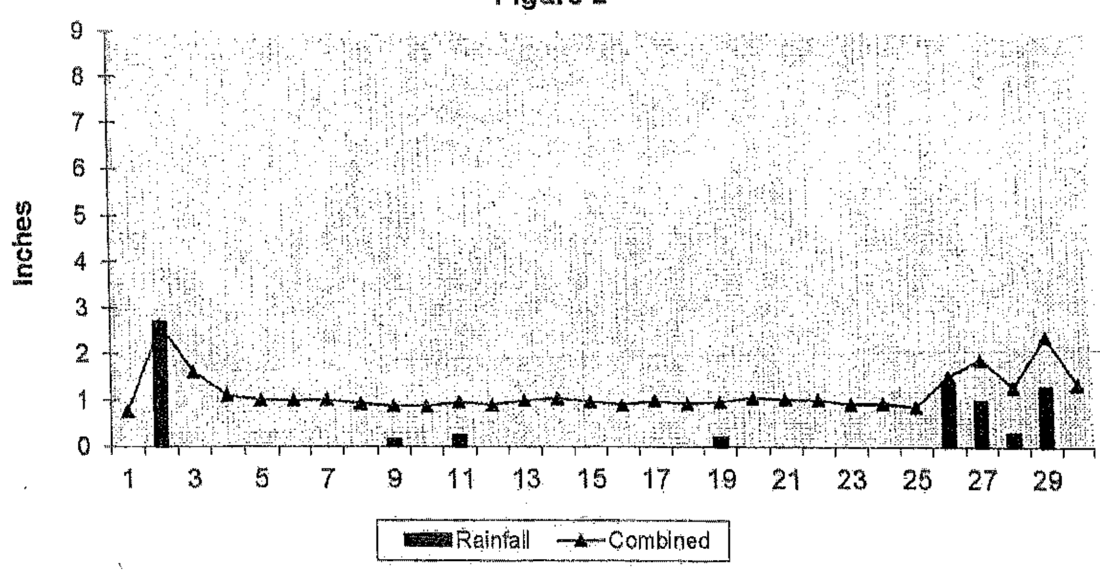
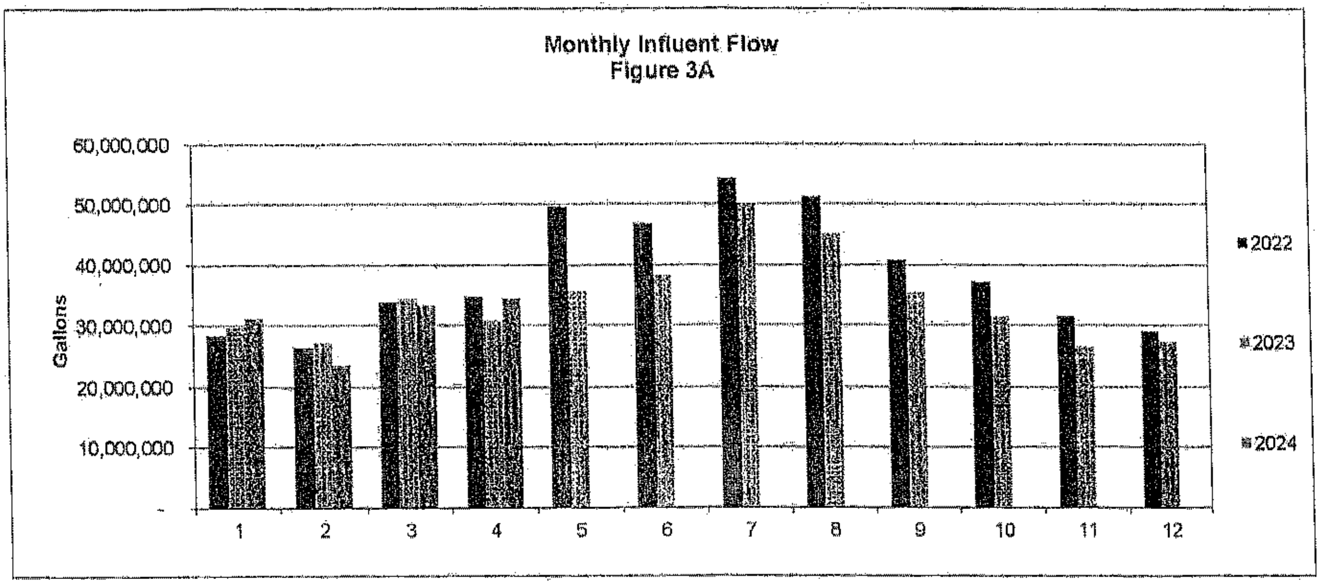


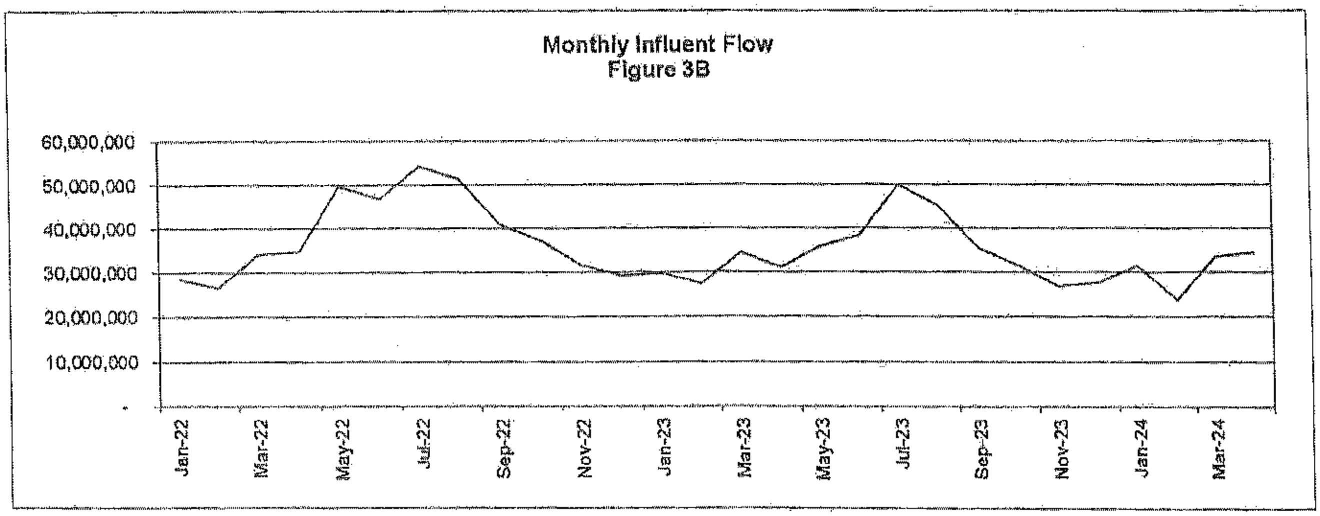
TABLE B
JOINT SEWER BOARD
Monthly Flows

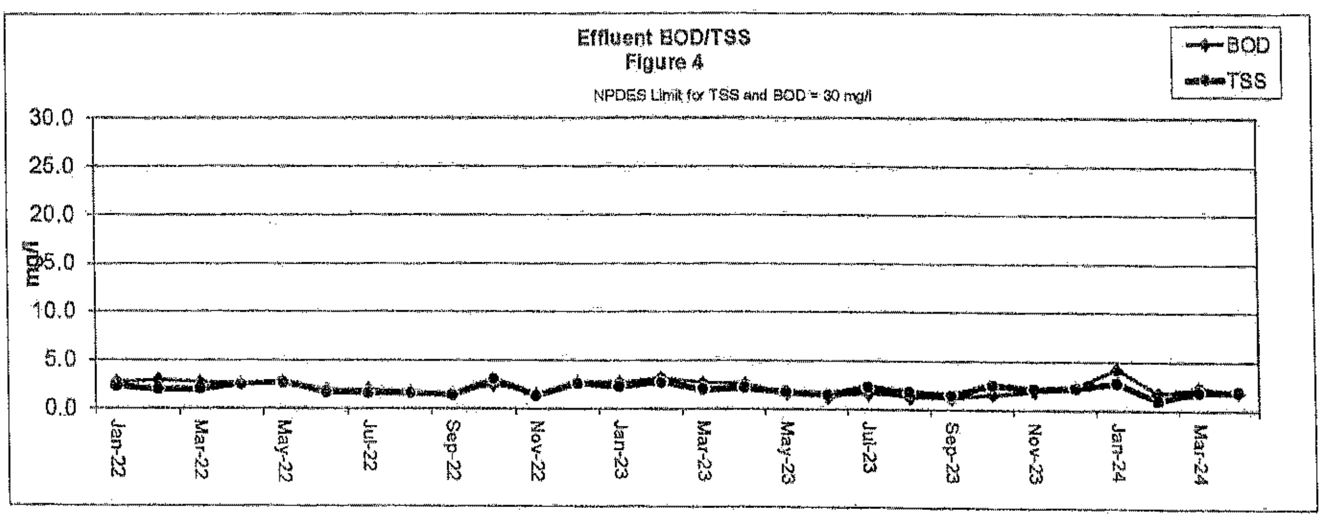
2022	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100%
May	9.1	41,076,000	83%	8,597,000	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	5.2	31,814,000	86%	5,317,000	14%	37,131,000	100%
November	4.5	26,905,000	85%	4,739,000	15%	31,644,000	100%
December	1.9	24,749,000	85%	4,376,000	15%	29,125,000	100%
	52.7	388,482,000	84%	75,577,000	16%	464,059,000	100%

2023	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.8	25,972,000	87%	3,812,000	13%	29,784,000	100%
February	3.9	23,448,000	86%	3,820,000	14%	27,268,000	100%
March	6.2	29,920,000	87%	4,559,000	13%	34,479,000	100%
April	1.3	26,903,000	87%	4,085,000	13%	30,988,000	100%
May	2.1	29,783,000	83%	5,950,000	17%	35,733,000	100%
June	0.9	32,155,000	84%	6,040,000	16%	38,195,000	100%
July	7.1	42,263,000	85%	7,678,000	15%	49,941,000	100%
August	8.3	37,375,000	83%	7,664,000	17%	45,039,000	100%
September	2.5	29,574,000	83%	5,917,000	17%	35,491,000	100%
October	3.2	26,468,000	84%	5,067,000	16%	31,535,000	100%
November	1.0	22,375,000	84%	4,282,000	16%	26,657,000	100%
December	3.4	23,026,000	84%	4,445,000	16%	27,471,000	100%
	42.7	349,262,000	85%	63,319,000	15%	412,581,000	100%

2024	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	4.8	26,487,000	85%	4,806,000	15%	31,293,000	100%
February	1.1	20,148,000	85%	3,491,000	15%	23,639,000	100%
March	5.1	27,206,000	81%	6,214,000	19%	33,420,000	100%
April	7.3	28,925,000	84%	5,502,000	16%	34,427,000	100%
May							
June							
July							
August							
September							
October							
November							
December							
	18.3	102,766,000	84%	20,013,000	16%	122,779,000	100%

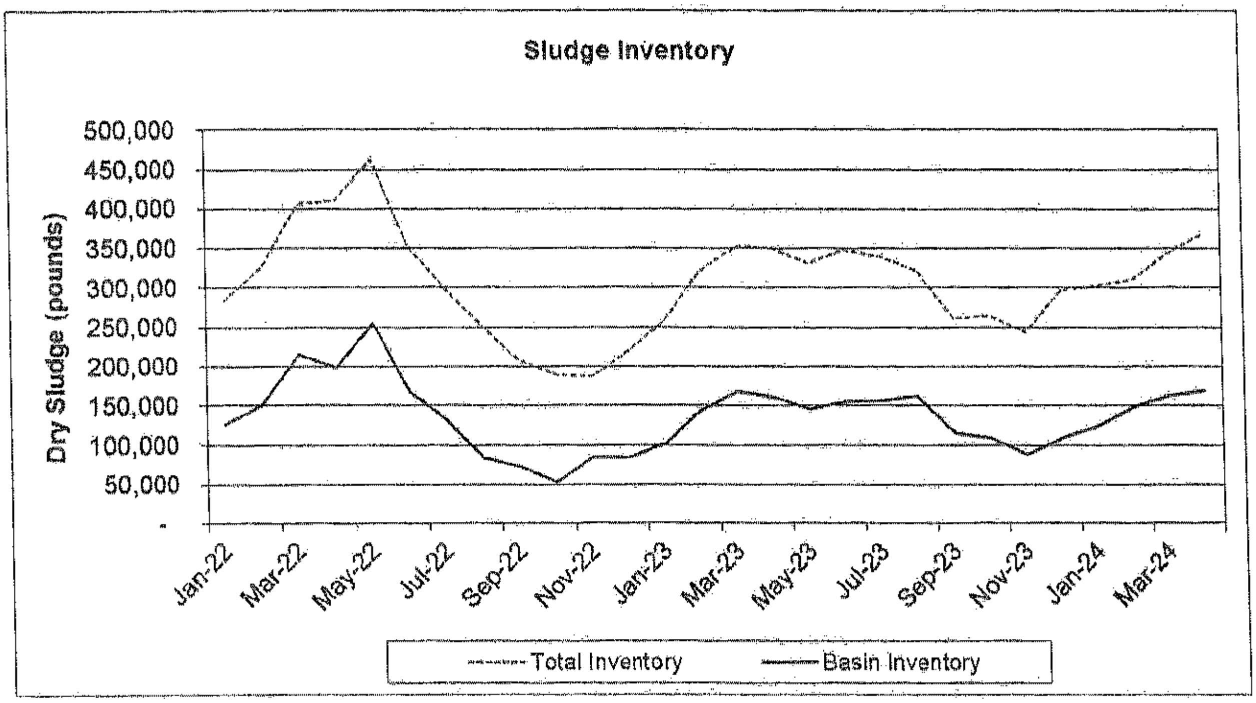

Monthly Influent Flow
Figure 3A
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
-
Gallons
1
2
3
4
5
6
7
8
9
10
11
12
2022
2023
2024

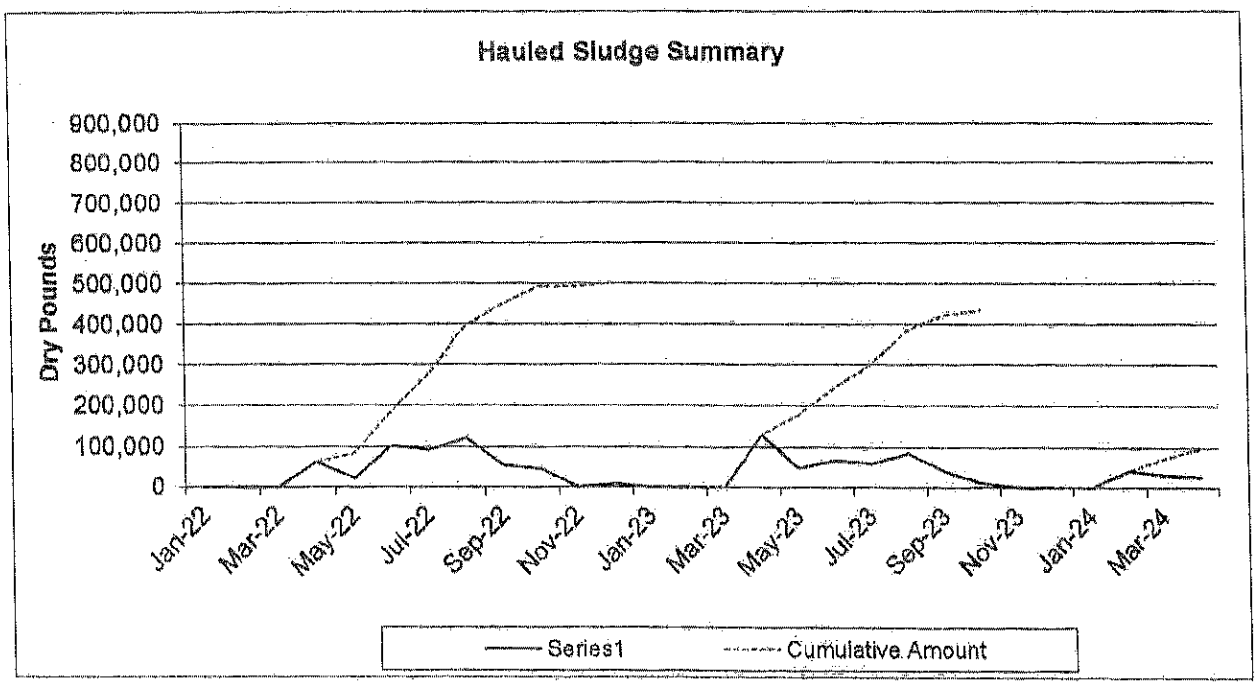

Monthly Influent Flow
Figure 3B
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
-
Jan-22
Mar-22
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24


Effluent BOD/TSS
Figure 4
NPDES Limit for TSS and BOD = 30 mg/l
BOD
TSS
30.0
25.0
20.0
15.0
10.0
5.0
0.0
mg/l
Jan-22
Mar-22
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24

	Hauled Sludge					Basin Depths				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry
Jan-22	0	-	0	4.5%		4.5	3.0	0.0	337,500	126,664
Feb-22	0	-	0	4.0%		7.0	3.0	0.0	450,000	150,120
Mar-22	0	-	0	4.4%		6.0	7.0	0.0	585,000	214,672
Apr-22	47	169,200	62,120	4.4%	62,120	7.0	5.0	0.0	540,000	198,255
May-22	16	57,600	21,017	4.4%	83,137	8.5	7.0	0.0	697,500	254,503
Jun-22	84	302,400	102,052	4.0%	185,189	7.0	4.0	0.0	495,000	167,049
Jul-22	80	288,000	88,961	3.7%	274,150	7.0	2.5	0.0	427,500	132,051
Aug-22	108	388,800	120,426	3.7%	394,576	2.0	4.0	0.0	270,000	83,629
Sep-22	51	183,600	54,073	3.5%	448,649	3.5	2.0	0.0	247,500	72,893
Oct-22	42	151,200	44,405	3.5%	493,054	1.0	3.0	0.0	180,000	52,863
Nov-22	0	-	0	3.5%	493,054	4.0	2.5	0.0	282,500	85,381
Dec-22	8	28,800	7,746	3.2%	500,800	4.0	3.0	0.0	315,000	84,722
Jan-23	0	-	0	3.2%		5.0	3.5	0.0	382,500	102,082
Feb-23	0	-	0	3.2%	-	6.5	5.5	0.0	540,000	144,115
Mar-23	0	-	0	3.2%	-	7.0	7.0	0.0	630,000	168,134
Apr-23	116	417,000	129,223	3.7%	129,223	7.5	4.0	0.0	517,500	160,367
May-23	48	172,800	46,747	3.2%	175,970	6.0	6.0	0.0	540,000	146,084
Jun-23	58	208,800	65,362	3.6%	241,332	6.0	5.0	0.0	495,000	154,953
Jul-23	51	183,600	58,307	3.8%	299,639	6.0	5.0	0.0	495,000	157,200
Aug-23	74	266,400	83,587	3.8%	383,226	7.0	4.5	0.0	517,500	162,373
Sep-23	34	122,400	39,271	3.8%	422,497	7.5	0.5	0.0	360,000	115,503
Oct-23	9.5	34,200	11,124	3.9%	433,621	7.5	0.0	0.0	337,500	109,776
Nov-23	0	-	0	3.9%		3.0	3.0	0.0	270,000	87,820
Dec-23	0	-	0	3.9%	-	4.5	3.0	0.0	337,500	109,775
Jan-24	0	-	0	3.9%	-	5.5	3.0	0.0	382,500	124,412
Feb-24	36	129,600	40,863	3.8%	40,863	7.0	3.5	0.0	472,500	148,980
Mar-24	25	90,000	29,724	4.0%	70,587	7.0	4.0	0.0	495,000	163,482
Apr-24	23	82,800	24,850	3.6%	95,537	5.5	7.0	0.0	562,500	169,497

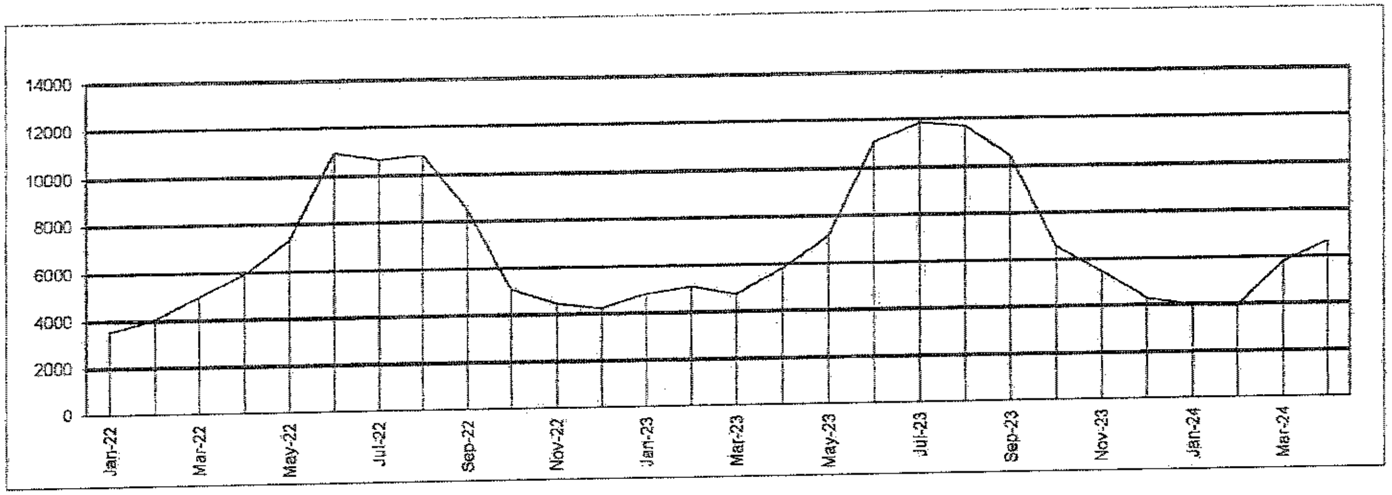
	Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-22	1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,800	13	27,000
Feb-22	4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513	32	68,000
Mar-22	9.0	10.0	0.0	5,670	5,760	3,937,476	190,464	0.0058	405,135	23	48,000
Apr-22	10.0	10.0	1.0	7,100	5,600	3,998,668	211,765	0.0064	410,021	52	124,500
May-22	2.0	10.0	1.0	6,290	6,630	3,856,572	207,778	0.0065	462,281	37	65,000
Jun-22	4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297	42	93,500
Jul-22	8.0	3.0	1.5	4,740	5,850	3,860,524	166,296	0.0052	298,348	33	68,500
Aug-22	1.5	1.0	0.5	5,490	5,420	3,686,119	166,789	0.0055	250,418	168	300,000
Sep-22	1.0	1.0	0.5	4,850	4,150	3,657,238	134,359	0.0044	207,251	76	168,000
Oct-22	0.5	0.5	0.5	4,590	4,390	3,639,476	136,286	0.0045	189,149	33	71,000
Nov-22	1.0	1.0	0.0	4,330	2,340	3,635,524	101,573	0.0034	186,954	36	86,500
Dec-22	1.5	1.5	0.0	4,510	4,270	3,653,286	133,756	0.0044	218,478	33	71,500
Jan-23	1.0	1.0	0.0	4,360	5,380	3,635,524	155,543	0.0051	257,625	35	74,500
Feb-23	2.0	2.0	0.0	6,060	5,570	3,671,048	177,882	0.0058	321,997	38	87,500
Mar-23	1.0	2.0	1.0	5,310	6,640	3,696,714	184,213	0.0060	352,347	50	115,500
Apr-23	1.0	1.0	1.0	6,200	6,170	3,676,952	189,771	0.0062	350,138	82	171,500
May-23	0.5	9.0	0.5	5,120	6,530	3,790,453	184,142	0.0058	330,226	49	102,500
Jun-23	1.5	4.0	0.5	6,020	6,440	3,719,405	193,254	0.0062	348,207	59	131,500
Jul-23	2.0	3.5	0.5	6,030	5,710	3,719,405	182,086	0.0059	339,287	61	120,500
Aug-23	1.0	1.0	0.5	5,600	4,910	3,657,238	160,285	0.0053	322,658	27	66,500
Sep-23	1.0	1.0	0.5	4,780	4,750	3,657,238	145,339	0.0048	260,842	64	164,000
Oct-23	0.5	0.5	0.5	4,530	5,660	3,639,476	154,650	0.0051	264,426	40	85,500
Nov-23	2.0	2.0	0.5	4,550	5,540	3,692,762	155,374	0.0050	243,194	30	59,000
Dec-23	1.0	3.0	0.0	5,730	6,450	3,671,048	166,455	0.0061	296,230	29	77,000
Jan-24	1.0	5.0	0.0	5,470	6,100	3,706,572	178,831	0.0058	303,243	23	43,000
Feb-24	0.5	1.0	0.0	5,120	5,530	3,626,643	161,061	0.0053	310,041	21	40,000
Mar-24	4.0	6.0	0.0	5,960	5,540	3,759,855	180,304	0.0058	343,786	21	51,500
Apr-24	1.5	0.5	0.5	5,770	7,270	3,657,238	198,869	0.0065	368,366	56	122,000


Sludge Inventory
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Dry Sludge (pounds)
Jan-22
Mar-22
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24
Total Inventory
Basin Inventory

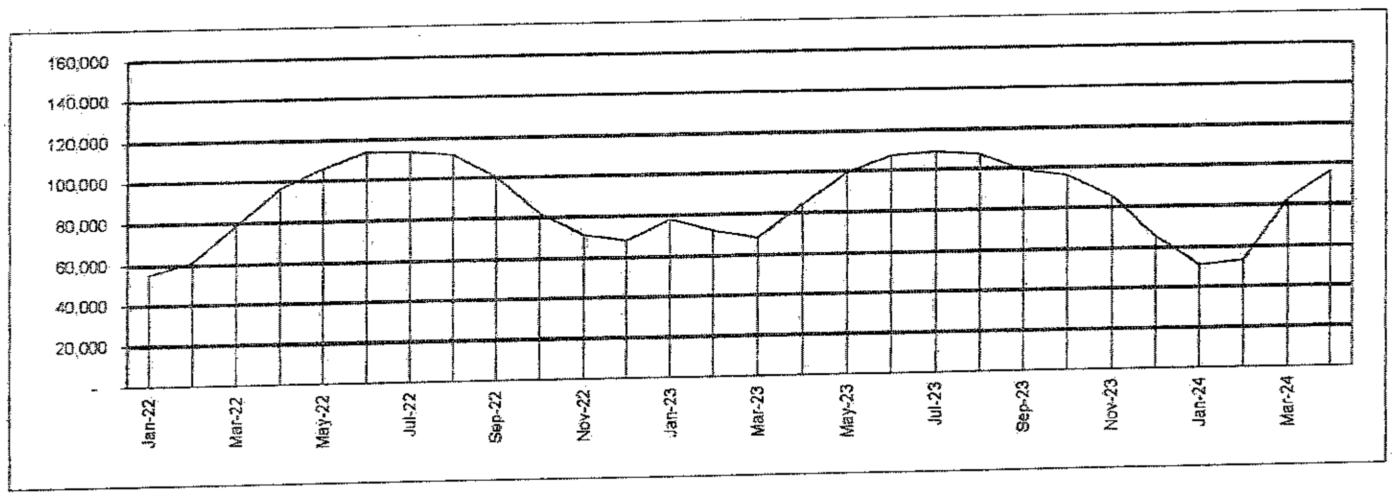

Hauled Sludge Summary
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Dry Pounds
Jan-22
Mar-22
May-22
Jul-22
Sep-22
Nov-22
Jan-23
Mar-23
May-23
Jul-23
Sep-23
Nov-23
Jan-24
Mar-24
Series1
Cumulative Amount

	Electric Cost	Kilowatts Used
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
Oct-22	5071	82,030
Nov-22	4451	71,240
Dec-22	4224	68,000
Jan-23	4809	77,980
Feb-23	5074	72,420
Mar-23	4730	68,320
Apr-23	5801	84,440
May-23	7128	99,300
Jun-23	11076	107,520
Jul-23	11845	109,070
Aug-23	11697	107,330
Sep-23	10438	99,140
Oct-23	6553	96,000
Nov-23	5474	85,570
Dec-23	4293	65,618
Jan-24	3972	51,236
Feb-24	3925	53,460
Mar-24	5786	82,859
Apr-24	6619	96,496

Electric Cost



Kilowatts Used



Lake Ozark/Osage Beach WWTP
Phosphorus Removal

	Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L
Jan-22	4.8	1.9	Jan-23	4.9	2.7	Jan-24	5.3	3.3
Feb-22	4.6	1.7	Feb-23	5.9	3.0	Feb-24	5.3	2.8
Mar-22	4.9	2.9	Mar-23	5.1	2.9	Mar-24	4.5	3.5
Apr-22	4.7	2.9	Apr-23	6.0	3.2	Apr-24	2.1	5.5
May-22	4.4	2.8	May-23	5.6	1.9	May-24		
Jun-22	4.4	3.7	Jun-23	6.2	2.8	Jun-24		
Jul-22	6.2	2.8	Jul-23	7.2	0.6	Jul-24		
Aug-22	3.5	1.0	Aug-23	4.7	0.6	Aug-24		
Sep-22	5.3	4.5	Sep-23	5.0	4.6	Sep-24		
Oct-22	6.1	6.8	Oct-23	7.0	6.6	Oct-24		
Nov-22	4.8	3.6	Nov-23	7.6	5.4	Nov-24		
Dec-22	4.8	2.8	Dec-23	5.9	3.6	Dec-24		
Avg.	4.9	3.1	Avg.	5.9	3.2	Avg.	4.3	3.8

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	
Apr-24	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	6.8			21.7	16.1	0.985	7.6			0.03	9.4	< 20	17.1		
2	7.1				15.7	2.871	7.9				9.5		15.6		
3	7.0				13.5	1.819	7.5				10.0		14.5		
4	7.0				14.6	1.328	8.0				10.3		14.3		
5	7.0	255	396		13.2	0.507	7.6	1.6	0.9		10.4		13.5	99.4	99.8
6	7.0				13.0	1.527	7.9				10.3		13.9		
7	6.8				15.5	1.400	7.5				10.2		15.2		
8	6.9				15.6	0.630	7.6				9.9		15.3		
9	6.7				16.0	1.154	7.6				9.9	< 20	15.6		
10	6.7			14.8	15.9	1.265	7.9			0.04	9.8		15.9		
11	6.9				16.1	1.261	7.6				9.8		15.4		
12	6.9	225	224		14.9	1.214	7.6	1.8	1.9		9.9		15.0	99.2	99.2
13	6.9				14.1	1.132	7.6				10.2		14.1		
14	7.0				15.4	1.303	8.0				9.8		15.9		
15	6.9				17.2	1.227	8.0				9.3	< 20	18.3		
16	6.8				17.8	1.228	7.9				9.1		18.9		
17	6.9			13.8	17.5	1.261	7.9			0.03	9.2		18.4		
18	6.9	285	332		17.5	1.224	7.6	2.2	2.6		9.1		18.4	99.2	99.2
19	6.9				16.2	1.325	7.7				9.6		16.9		
20	7.0				15.7	1.295	7.8				9.7		15.3		
21	7.1				15.4	1.311	7.7				9.9		15.6		
22	7.1				16.0	1.329	7.8				9.9	< 20	15.6		
23	6.9				17.1	1.149	7.6				9.7		16.3		
24	6.9			18.8	16.9	1.197	7.6			0.05	9.9		16.3		
25	6.9	265	334		16.7	1.196	7.6	1.8	2.3		9.8		16.2	99.3	99.3
26	6.9				16.4	1.872	7.6				9.6		16.3		
27	6.7				17.7	2.121	7.7				9.5		17.4		
28	6.9				17.5	1.630	7.7				9.4		18.0		
29	6.8				17.6	2.796	7.6				9.4		18.3		
30	6.8				16.6	1.735	7.6				9.3	< 20	17.4		
Total						42.292									
Avg		258	322	17.3	16.0	1.410		1.9	1.9	0.04	9.7	10.0	16.2	99.3	99.4
Min	6.7	225	224	13.8	13.0	0.507	7.5	1.6	0.9	0.03	9.1	< 20	13.5	99.2	99.2
Max	7.1	285	396	21.7	17.8	2.871	8.0	2.2	2.6	0.05	10.4	< 20	18.9	99.4	99.8

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	2.08	<0.130	19.8	< 2.0	< 0.002	< 0.04	314	5.47	45.5	< 0.030
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	2.08	<0.130	19.8	< 2.0	< 0.002	< 0.04	314.000	5.47	45.5	< 0.030
Avg	2.08	<0.130	19.8	< 2.0	< 0.002	< 0.04	314.00	5.47	45.5	< 0.030
Min	2.08	<0.130	19.8	< 2.0	< 0.002	< 0.04	314.00	5.47	45.5	< 0.030
Max	2.08	<0.130	19.8	< 2.0	< 0.002	< 0.04	314.00	5.47	45.5	< 0.030

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

DATE Apr-24	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l.	** MLSS mg/l	*Settleability *30 min ml	Temp ° C	#2 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l	** MLSS mg/l	*Settleability *30 min ml	Temp ° C	*Weather Conditions Outside * Ambient Temp ° F	*RAIN inches	Time
1		1.5	6,300	780	17.6	1.4	6,260	750	17.4	68	0	7:30
2		1.1	4,370	450	15.7	0.9	4,950	580	16.0	57	2.7	7:30
3		1.5	5,350	670	14.1	1.3	6,400	820	14.5	43	0	7:30
4		3.4	6,340	830	14.5	4.4	6,090	790	14.3	45	0	7:30
5		3.4	5,860	760	13.6	3.6	6,250	840	13.7	38	0	7:30
6		2.8	6,970	820	14.6	4.8	4,950	620	14.3	48	0	7:30
7		2.1	6,710	800	15.8	4.2	4,540	500	15.3	61	0	7:30
8		2.4	5,730	750	15.5	4.5	4,310	550	15.2	50	0	7:30
9		2.8	5,450	700	15.9	3.0	4,840	580	15.7	55	0.16	7:30
10		1.2	6,250	800	16.1	3.8	5,290	640	15.9	57	0	7:30
11		1.6	6,670	780	15.6	4.4	5,020	550	15.6	54	0.25	7:30
12		2.7	6,500	800	15.4	4.4	4,860	560	15.3	51	0	7:30
13		3.4	6,210	750	14.3	5.2	5,460	750	14.2	46	0	7:30
14		2.5	6,120	730	16.1	4.0	5,440	670	16.0	59	0	7:30
15	10,809	1.3	5,820	730	18.6	2.2	5,520	650	18.2	64	0	7:30
16	8,887	1.1	6,280	730	19.0	1.3	5,720	670	17.8	70	0	7:30
17	5,254	1.5	5,990	720	18.5	1.3	5,890	760	18.4	65	0	7:30
18		1.7	5,470	630	18.2	1.7	6,270	700	18.3	58	0	7:30
19		1.3	4,930	630	16.8	1.3	6,010	790	17.1	52	0.2	7:30
20		2.4	5,900	800	16.0	2.7	5,920	790	16.1	50	0	7:30
21		2.8	6,410	800	15.5	3.7	5,670	750	15.5	49	0	7:30
22		3.0	4,980	740	15.2	1.7	7,070	850	15.3	40	0	7:30
23		1.6	5,790	800	16.4	2.1	6,390	830	16.4	54	0	7:30
24		1.5	5,810	770	16.1	2.3	6,340	840	16.1	48	0	7:30
25		1.4	6,170	810	16.2	2.3	6,760	850	16.3	56	0	7:30
26		1.4	5,240	740	16.6	1.0	6,060	790	16.5	57	1.4	7:30
27		1.4	5,270	720	17.2	1.2	6,310	810	17.7	64	1.0	7:30
28		1.0	5,330	710	18.0	1.1	6,180	750	18.0	67	0.3	7:30
29		1.0	5,780	750	18.3	1.0	6,560	810	18.3	62	1.3	7:30
30		4.6	5,770	760	17.3	3.4	7,270	840	17.4	64	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	John Hornback	(573)365-0455	5/9/2024
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Gary Hutchcraft	(573)365-0455	5/9/2024

*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	
4/1/24	4/30/24
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	2.871	1.410	Mgal/d
Mon. Location.: End of Pipe Sample Type: Total Measured Frequency: Daily	*****;*****	*****;*****	*****;*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
BOD, 5-day, 20 deg. C	*****	2.2	1.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Total Suspended Solids (TSS)	*****	2.6	1.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Escherichia coli (E. coli)	*****	<20	10.0	#/100mL	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Weekly	*****;*****	7 Day Geo.:630	30 Day Geo. Mean:126		*****;*****	*****;*****	
Phosphorus, total (as P)	2.08	*****	2.08	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrogen, Kjeldahl, total (as N)	<0.130	*****	<0.130	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrite plus nitrate total (as N)	19.8	*****	19.8	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrogen, ammonia total (as	0.05	*****	0.04	mg/L	*****	*****	*****

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

N)							
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
pH	7.5	*****	8.0	SU	*****	*****	*****
Mon. Location.: End of Pipe	Minimum:6.0	*****;*****	Maximum:9.0		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	99.2	%	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	*****;*****	Monthly Avg. Min.:85		*****;*****	*****;*****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	99.2	%	*****	*****	*****
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	
4/1/24	4/30/24
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C	*****	*****	258	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	*****;*****	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Total Suspended Solids (TSS)	*****	*****	322	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	*****;*****	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrogen, ammonia total (as N)	21.7	*****	17.3	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Phosphorus, total (as P)	5.47	*****	5.47	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrogen, Kjeldahl, total (as N)	45.5	*****	45.5	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Nitrite plus nitrate total (as N)	<0.030	*****	<0.030	mg/L	*****	*****	*****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	

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	Submission Date	User Phone Number
Gary Hutchcraft	May 9, 2024	(573)365-0455

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	001Q
Monitoring Period	
4/1/24	6/30/24
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Oil and grease	<2.0	*****	<2.0	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Quarterly	Daily Max.:15	*****;*****	Monthly Avg.:10		*****;*****	*****;*****	
Cadmium, total recoverable	<0.002	*****	<0.002	ug/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Quarterly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Selenium (Se), total recoverable	<0.04	*****	<0.04	ug/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Quarterly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Hardness, total (as CaCO3)	314	*****	314	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Quarterly	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	

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	Submission Date	User Phone Number
Gary Hutchcraft	May 9, 2024	(573)365-0455

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR APRIL 2024
month year

		PLANT INFLUENT															ENVIRONMENTAL CONDITIONS			AERATION BASIN 1 MIXED LIQUOR				
DATE	[illegible]	FLOW [illegible] (mgd)	FLOW [illegible] (mgd)	FLOW TOTAL (mgd)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AMMONIA as N [illegible]	[illegible]	[illegible]	[illegible]	pH	TEMP	WEATHER	PRECIPITATION (inches)	TEMPERATURE	[illegible]	[illegible]	[illegible]	pH	DO
1	JFH	0.102	0.652	0.754							21.7	5.47	45.5	0.130	6.81	16.1	O	0	48	6,300	740	124	7.09	1.5
2	JFH	0.500	2.131	2.631											7.08	15.7	R	2.7	57	4,370	450	103	7.36	1.1
3	JFH	0.276	1.320	1.596											6.96	13.5	PC	0	43	5,250	670	127	7.91	1.5
4	MR/JFH	0.184	0.911	1.095											7.02	14.6	C	0	45	6,340	830	131	7.53	3.4
5	MR/JFH	0.187	0.811	0.998	143	143	255	102	136	396					7.02	13.2	C	0	38	5,860	760	130	7.32	3.4
6	MR/JFH	0.165	0.824	0.989											6.98	13.0	C	0	48	6,970	820	118	7.32	2.5
7	MR/JFH	0.167	0.837	1.004											6.86	15.5	C	0	61	4,710	590	119	7.20	2.1
8	MR/GH	0.139	0.780	0.919											6.91	15.6	C	0	50	5,730	750	131	7.46	2.4
9	MR/JFH	0.123	0.755	0.878											6.69	16.0	R	0.16	55	5,450	700	128	7.25	2.8
10	MR/JFH	0.139	0.731	0.870							14.8				6.72	15.9	PC	0	57	6,250	800	128	7.25	1.2
11	MR/JFH	0.142	0.809	0.951											6.97	16.1	C	0.15	54	6,670	780	117	7.33	1.6
12	MR/JFH	0.142	0.752	0.893	208	226	225	140	148	324					6.94	14.9	C	0	31	6,300	800	127	7.41	2.7
13	JFH	0.149	0.843	0.992											6.87	14.1	C	0	46	6,210	750	121	7.12	3.4
14	JFH	0.162	0.872	1.034											6.97	15.4	C	0	39	6,130	730	119	7.16	2.5
15	JFH	0.137	0.823	0.960											6.88	17.2	PC	0	64	5,820	730	125	7.05	1.2
16	MR/JFH	0.141	0.751	0.892											6.82	17.8	PC	0	70	6,280	730	116	7.31	1.1
17	JFH	0.153	0.823	0.976							13.8				6.58	17.5	C	0	65	5,090	700	120	7.29	1.5
18	MR/JFH	0.125	0.792	0.917	215	235	285	120	180	331					6.86	17.5	C	0	58	5,470	630	115	7.18	1.7
19	JFH	0.139	0.822	0.961											6.92	16.2	O	0.2	52	4,980	630	128	7.46	1.3
20	JFH	0.158	0.878	1.046											6.97	15.7	C	0	50	5,900	800	135	7.28	2.4
21	JFH	0.170	0.845	1.015											7.06	15.4	C	0	40	6,410	800	125	7.25	2.8
22	JFH	0.156	0.850	1.006											7.13	16.0	C	0	40	4,980	740	149	7.30	2.0
23	JFH	0.128	0.784	0.912											6.90	17.1	C	0	54	5,790	800	138	7.48	1.6
24	JFH	0.131	0.793	0.924							15.8				6.88	16.9	C	0	48	5,810	770	133	7.04	1.5
25	JFH	0.142	0.728	0.870	258	263	265	226	178	334					6.88	16.7	O	0	56	6,170	810	131	7.05	1.4
26	JFH	0.312	1.186	1.498											6.94	16.4	R	1.4	57	5,240	740	141	7.35	1.4
27	GH	0.267	1.601	1.868											6.71	17.7	C	1.0	64	5,270	720	137	7.04	1.4
28	GH	0.225	1.057	1.282											6.87	18.0	R	0.3	67	5,330	710	133	7.13	1.0
29	JFH	0.410	1.950	2.360											6.80	17.6	PC	1.3	62	5,780	790	137	7.13	1.0
30	JFH	0.221	1.124	1.345											6.82	16.6	C	0	54	5,770	780	132	7.25	4.6
TOTAL		5.102	28.925	34.427	824	861	1030	588	643	1386	69.1	5.47	45.5	0.130	207	479.9		7.31	1642	175,770	22,260	3,806	217	61.4
MAX		0.500	2.131	2.631	258	263	285	226	180	396	21.7	5.47	45.5	0.130	7.13	18		2.7	70	6,970	830	149	7.53	4.6
MIN		0.102	0.652	0.754	143	143	225	102	136	224	13.8	5.47	45.5	0.130	6.69	13		0	38	4,370	450	103	7.01	1.0
AVG		0.163	0.964	1.148	206	215	258	147	162	332	17.3	5.47	45.5	0.130	6.90	16.0		0.24	55	5,859	742	127	7.22	2.0

	AERATION BASIN 2 MIXED LIQUOR					CLARIFIER 1	CLARIFIER 2	CLARIFIER 3	PLANT EFFLUENT															DIGESTER		WASTE SLUDGE TO STORAGE	
DATE	[illegible]	[illegible]	[illegible]	pH	DO	DEPTH OF SLUDGE BLANKET (ft)	DEPTH OF SLUDGE BLANKET (ft)	DEPTH OF SLUDGE BLANKET (ft)	FLOW EFFLUENT	pH	[illegible]	[illegible]	[illegible]	AMMONIA as N	TEMP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FLOW	[illegible]	FLOW	[illegible]
1	6,260	750	120	7.06	1.4	1.0	2.0	0.0	0.925	7.61			9.4	0.03	17.1	<20	2.08	0.130	19.8	<2.0	0.002	<0.04	314	0.374	12,940	45,000	4,855
2	4,990	580	117	7.33	0.9	12.5	11.5	0.0	2.871	7.87			9.5		15.6									0.387	14,280		
3	6,400	820	128	6.98	1.3	1.0	2.0	0.0	1.819	7.53			10.0		14.5									0.516	10,020		
4	6,000	750	130	6.95	4.4	3.0	1.0	0.0	1.328	8.02			10.3		14.3									0.893	10,860	45,000	4,076
5	6,250	840	134	7.26	3.6	1.0	5.0	0.0	0.507	7.60	1.6	0.9	10.4		13.5									0.666	11,210		
6	4,950	620	125	7.32	4.8	6.0	3.0	0.5	1.527	7.94			10.3		13.9									1.036	10,320		
7	4,540	500	110	6.80	4.2	11.0	0.5	0.5	1.460	7.49			10.2		15.2									0.779	5,620	45,000	2,109
8	4,310	550	128	7.47	4.5	0.5	1.0	4.0	0.630	7.64			9.9		15.3									0.731	6,675		
9	4,840	580	120	7.01	3.0	0.5	1.0	3.0	1.154	7.56			9.8		15.6	<20								0.922	21,800	45,000	8,557
10	5,290	640	121	7.23	3.5	2.0	0.5	0.5	1.265	7.90			9.5	0.04	15.9									1.273	8,820		
11	5,020	550	110	7.38	4.4	1.0	2.0	0.5	1.262	7.59			9.8		15.4									1.257	10,075		
12	4,850	560	115	7.39	4.4	1.0	1.0	0.5	1.214	7.61	1.8	1.9	9.9		15.0									0.984	12,115		
13	5,460	730	137	7.18	5.2	6.0	0.5	1.0	1.132	7.62			10.2		14.1									1.099	8,265		
14	5,440	670	123	7.12	4.0	4.0	3.0	1.0	1.301	8.02			9.8		15.9									1.051	12,415		
15	5,520	650	119	7.1	2.2	5.0	0.5	0.5	1.322	8.00			9.3		18.3	<20								1.073	12,305		
16	5,720	670	117	7.15	1.3	0.5	3.0	0.5	1.226	7.90			9.1		18.9									1.087	13,000		
17	5,890	700	120	7.19	1.3	3.0	3.0	0.5	1.261	7.94			9.2	0.03	18.4									0.969	12,180		
18	6,270	700	112	7.13	1.7	1.0	6.0	0.5	1.224	7.60	2.2	2.6	9.1		18.4									1.148	9,470		
19	6,010	790	131	7.31	1.3	6.0	1.0	0.5	1.325	7.67			9.6		16.9									1.044	12,660	45,000	4,751
20	5,920	780	131	7.23	2.7	1.0	2.0	1.0	1.295	7.77			9.7		15.3									1.180	9,195		
21	5,670	750	132	7.27	3.7	1.0	5.0	2.0	1.311	7.67			9.9		15.6									0.817	6,675		
22	7,070	850	120	7.16	1.7	3.0	5.0	0.5	1.329	7.78			9.9		15.6	<20								1.306	11,883		
23	6,390	830	130	7.12	2.1	1.0	1.0	1.0	1.149	7.58			9.7		16.3									1.345	10,745		
24	6,340	840	132	7.07	2.3	1.0	1.5	1.0	1.197	7.57			9.9	0.05	16.3									1.307	9,805		
25	6,750	850	126	7.15	2.3	1.0	1.0	0.5	1.196	7.59	1.8	2.1	9.8		16.2									1.264	11,475	45,000	4,707
26	6,060	790	130	7.04	1.0	2.0	2.0	0.5	1.872	7.60			9.6		16.3									1.464	9,970		
27	6,310	810	128	6.99	1.2	1.0	3.0	0.5	2.121	7.66			9.5		17.4									1.648	8,910		
28	6,180	750	121	7.09	1.1	0.5	0.5	0.5	1.530	7.73			9.4		18.0									1.630	7,390		
29	6,460	810	123	7.10	1.0	1.5	1.5	0.5	2.706	7.61			9.4		18.3									1.613	11,700		
30	7,270	840	116	7.16	3.1	1.5	0.5	0.5	1.735	7.62			9.3		17.4	<20								1.735	13,535	45,000	5,080
TOTAL	174,600	21,680	3,716	214	80	60.5	71.5	22.5	42.292	231	7.4	7.7	292	0.15	485	<20	2.08	0.130	19.8	<2.0	0.003	<0.04	314	32.559	327,755	315,000	33,736
MAX	7,270	850	137	7.47	5.2	12.5	11.5	4.0	2.871	8.02	2.2	2.6	10.4	0.05	18.9	<20	2.08	0.130	19.8	<2.0	0.002	<0.04	314	1.735	21,800	45,000	8,557
MIN	4,310	580	110	6.8	0.9	0.5	0.5	0.0	0.507	7.49	1.6	0.9	9.1	0.03	13.5	<20	2.08	0.130	19.8	<2.0	0.002	<0.04	314	0.374	5,620	45,000	2,109
AVG	5,820	723	124	7.15	2.7	2.7	2.4	0.8	1.410	7.71	1.9	1.9	9.7	0.04	16.2	10.0	2.08	0.130	19.8	<2.0	0.002	<0.04	314	1.085	10,925	45,000	4,819

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

Prepared by MR, JFH, GH

Approved by GH

Date 5/9/2024

CISA: Defending Operational Technology Against Ongoing Pro-Russia Hacktivists

DEQ.OC.OPCERT <opcert@dnr.mo.gov>
Thu 5/2/2024 1:06 PM

You don't often get email from opcert@dnr.mo.gov. Learn why this is important

CISA: Defending Operational Technology (OT) Operations Against Ongoing Pro-Russia Hacktivist Activity

The Department of Natural Resources would like to make you aware of information from partner agencies on cybersecurity attacks. Missouri water and wastewater cyber incidents should be reported to WPP-Cybersecurity@dnr.mo.gov. Missouri water and wastewater treatment systems can get help with cyber incidents by calling the Missouri Information Analysis Center (MIAC) at 866-362-6422.

Today, CISA and a cadre of U.S. federal and international agencies and multiple ISAC's (including WaterISAC), have collaborated on a joint fact sheet titled "Defending OT Operations Against Ongoing Pro-Russia Hacktivist Activity." The purpose of the fact sheet is to highlight and safeguard against the continued malicious cyber activity conducted by pro-Russia hacktivists against operational technology (OT) devices, notably attacks against small water and wastewater systems in North America and Europe.

WaterISAC is sharing this fact sheet to emphasize and amplify its message so water and wastewater utilities understand the larger threat picture and for OT operators to apply the recommendations listed in the Mitigations section of the fact sheet to defend against this activity. Likewise, **utilities may need to forward this information to systems integrators or other technology or cybersecurity support** to assist. **Executive Overview** As WaterISAC has reported regularly in recent weeks about the ongoing threat, this effort comes as pro-Russia hacktivists have targeted and compromised small-scale OT North American and European Water and Wastewater Systems (WWS), Dams, Energy, and Food and Agriculture Sectors. These hacktivists seek to compromise modular, internet-exposed industrial control systems (ICS) through software components, such as human machine interfaces (HMIs), by exploiting virtual network computing (VNC) remote access software and default passwords.

The fact sheet includes mitigations and actions that the authoring agencies urge OT operators and administrators to apply as soon as possible. Please review the fact sheet to implement any mitigation measures to protect against and detect this activity – **utilities may need to forward this information on to systems integrators or other technology or cybersecurity support**. *Access the fact sheet here*.

Why This is Important

This malicious activity has been observed since 2022 and as recently as April 2024. WWS victims have experienced limited physical disruptions from an unauthorized user remotely manipulating HMIs, causing water pumps and blower equipment to exceed normal operating parameters, specifically from pro-Russia hacktivists. In each case, **the hacktivists maxed out set points, altered other settings, turned off alarm mechanisms, and changed administrative passwords to lock out the WWS operators**. Some victims experienced minor tank overflow events; however, most victims reverted to manual controls in the immediate aftermath and quickly restored operations.

Pro-Russia hacktivist activity against these sectors appears mostly limited to unsophisticated techniques that manipulate ICS equipment to create nuisance effects. However, investigations have identified that these actors are capable of techniques that pose physical threats against insecure and misconfigured OT environments. **Pro-Russia hacktivists have been observed gaining remote access via a combination of exploiting publicly exposed internet-facing connections and outdated VNC software, as well as using the HMIs' factory default passwords and weak passwords without multifactor authentication.**

Actions to Take Today

- Immediately change all default passwords of OT devices (including PLCs and HMIs) and use strong unique passwords.
- Limit exposure of OT systems to the internet.
- Implement multifactor authentication for all access to the OT network.

Members are encouraged to review the fact sheet for more comprehensive mitigation actions, including additional considerations for hardening HMI remote access and strengthening overall security posture. *Access the fact sheet here.*

Incident Reporting

- CISA's 24/7 Operations Center at Report@cisa.gov or (888) 282-0870 or your local FBI field office. When available, please include the following information regarding the incident: date, time, and location of the incident; type of activity; number of people affected; type of equipment used for the activity; the name of the submitting company or organization; and a designated point of contact.
- Water and Wastewater Systems Sector organizations, contact the EPA Water Infrastructure and Cyber Resilience Division at watercyberta@epa.gov to voluntarily provide situational awareness.
- Additionally, WaterISAC encourages members to share information by emailing analyst@waterisac.org, calling 866-H2O-ISAC, or using the online incident reporting form.

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Questions? Please contact us at analyst@waterisac.org or 866-H2O-ISAC.

REPORT OF

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT

DECEMBER 31, 2023

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT

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INDEPENDENT AUDITOR'S REPORT

Board of Directors
The Joint Board of the Lake Ozark - Osage Beach
Sewage Treatment Plant
Osage Beach, Missouri

Report on the Financial Statements

Opinions

We have audited the accompanying modified cash basis financial statements of the business-type activities of the Joint Board of the Lake Ozark – Osage Beach Sewage Treatment Plant (the "Board"), as of and for the year ended December 31, 2023, and the related notes to the financial statements, which collectively comprise the Board's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective modified cash basis financial position of the business-type activities of the Board as of December 31, 2023, and the respective changes in modified cash basis financial position for the year then ended in accordance with the modified cash basis of accounting described in Note 1.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of Financial Statements section of our report. We are required to be independent of the Board and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with the modified cash basis of accounting described in Note 1; this includes determining that the modified cash basis of accounting is an acceptable basis for the preparation of the financial statements in the circumstances.

Management is also responsible for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Board's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than one resulting from error, as fraud may involve collusion, forgery, intentional omission, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of the internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for purposes of expressing an opinion on the effectiveness of the Board's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Board's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Basis of Accounting

We draw attention to Note 1 of the financial statements, which describes the basis of accounting. The financial statements are prepared on the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to that matter.

Supplementary Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Board's basic financial statements. The accompanying statement of revenues collected, expenses paid and changes in net position arising from modified cash transactions – with budget comparisons, is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the statement of revenues collected, expenses paid and changes in net position arising from modified cash transactions - with budget comparisons is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated April 10, 2024, on our consideration of the Board's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Board's internal control over financial reporting and compliance.

Gerding, Korte & Chitwood, P.C.

April 10, 2024

Gerding, Korte & Chitwood, P.C.
Certified Public Accountants
Boonville, Missouri

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT MANAGEMENT'S DISCUSSION AND ANALYSIS YEAR ENDED DECEMBER 31, 2023 (UNAUDITED)

As management of the Joint Board of the Lake Ozark-Osage Beach Sewage Treatment Plant, we offer readers of the Board's financial statement this narrative overview and analysis of the financial activities of the Board for the calendar year.

Financial Highlights

The assets of the Joint Board of the Lake Ozark-Osage Beach Sewage Treatment Plant exceeded its liabilities at the close of the most recent calendar year by $859,984 (net position). Of this amount, $488,818 was restricted for equipment replacement, and $371,166 was unrestricted and may be used to meet the government's ongoing obligations to citizens and creditors in accordance with the Board's fund designation and fiscal policies.

The Board's total net position decreased by $11,094; this decrease in cash is primarily a result of increased operating and capital expenses during the year, compared to 2022.

Total operating revenue increased 7% from $601,993 in FY2022 to $641,506 in FY2023. Revenue from the City of Lake Ozark based on actual measured flows to the plant for the year was $87,144 (15.07%) and Osage Beach was $491,202 (84.93%). Waste Hauler's Fee revenue was up 28%. The number of loads (584) and gallons (1,255,500) was up 3% and 4%, respectively, for the year. Disposal charges are calculated at $0.04 per gallon, in 500-gallon increments. Interest earning increased 240%, from $6,111 in FY 2022 to $20,714 in FY 2023.

Total operating expenses increased $54,740 (11%) from $505,494 in FY2022 to $560,234 in FY2023. The increase was primarily due to the RAS basement paint project ($22,860). Capital improvement projects completed during the year include gear box for Aerator #1 ($75,426), flow meters ($20,339), and ducking skimmer arm ($15,551).

Overview of the Financial Statements

This discussion and analysis are intended to serve as an introduction to the Board's basic financial statements. The Board's basic financial statements are comprised of two components: 1) proprietary fund financial statements and 2) notes to the financial statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH
SEWAGE TREATMENT PLANT
MANAGEMENT'S DISCUSSION AND ANALYSIS
YEAR ENDED DECEMBER 31, 2023
(UNAUDITED)

Proprietary Funds - The Board maintains one type of proprietary fund. The Board uses an enterprise fund to account for its sewer operations.

The proprietary fund financial statements are designed to provide readers with the broad overview of the Board's finances in a manner similar to private-sector business.

The Statement of Net Position presents information on all the Board's modified cash basis assets and liabilities, with the difference between the two reported as net position. Over time, increases or decreases in net position may serve as a useful indicator as to whether the cash position of the Board is improving or deteriorating.

The Statement of Activities presents information showing how the Board's modified cash basis net position changed during the fiscal year. All changes in modified cash basis net position are reported when cash is received and expended.

Notes to the Financial Statements - The notes provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements. The notes to the financial statements can be found on pages 10-15.

Other Information - In addition to the basic financial statements and accompanying notes, this report also presents a budget comparison. The budget comparison can be found on page 16 of this report.

NET POSITION

	2023	2022
Current assets	$ 371,166	$ 344,138
Restricted assets	488,818	526,940
Total Assets	859,984	871,078
Net Position		
Unrestricted	371,166	344,138
Restricted for equipment replacement	488,818	526,940
Total Net Position	$ 859,984	$ 778,467

Business-Type Activities: Net Position from business-type activities decreased by $11,094 from $871,078 to $859,984.

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT MANAGEMENT'S DISCUSSION AND ANALYSIS YEAR ENDED DECEMBER 31, 2023 (UNAUDITED)

The following table provides a summary of the Board's operations for years ended December 31, 2023 and 2022

CHANGES IN NET POSITION

	2023	2022
Revenues:		
Program Revenues		
Charges for services	$ 641,506	$ 601,993
General Revenues		
Interest and investment earnings	20,714	6,111
Miscellaneous	234	1,094
Total Revenues	662,454	609,198
Expenses:		
Sewer	673,548	516,587
Total Expenses	673,548	516,587
Increase (Decrease) in net position	(11,094)	92,611
Net Position-Beginning of Year	871,078	778,467
Net Position-End of Year	$ 859,984	$ 871,078

Economic Outlook

The annual sewer flows to the plant decreased a total of 11% from 464,059,000 gallons in fiscal year 2022 to 412,581,000 gallons in 2023. Lake Ozark decreased 16% from 75,577,000 gallons in 2022 to 63,319,000 in 2023. Osage Beach decreased 10% from 388,482,000 in 2022 to 349,262,000 in 2023. Both cities are currently experiencing growth and flows to the plant are expected to increase in the future. The 2024 Budget includes a 5% increase of payments from the two cities No rate increases of disposal charges for its Waste Haulers' fees are expected in 2024.

Request for Information

The financial report is designed to provide the reader a general overview of the Lake Ozark-Osage Beach Sewage Treatment Plant's finances. Questions or requests for more information concerning any of the information provided in this report should be directed to Karri Bell, City Treasurer (kbell@osagebeach.org), City of Osage Beach, 1000 City Parkway, Osage Beach, Missouri 65065, or call (573) 302-2000, extension 1030.

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT
STATEMENT OF NET POSITION ARISING FROM MODIFIED CASH TRANSACTIONS
DECEMBER 31, 2023

ASSETS	
Current Assets:	
Cash and investments	$ 371,166
Restricted Assets:	
Cash and investments	488,818
Total Assets	$ 859,984
NET POSITION	
Restricted for equipment replacement	488,818
Unrestricted	371,166
Total Net Position	$ 859,984

See Notes to Financial Statements

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH
SEWAGE TREATMENT PLANT
STATEMENT OF ACTIVITIES ARISING FROM MODIFIED CASH TRANSACTIONS
YEAR ENDED DECEMBER 31, 2023

Functions/Programs	Expenses	Program Revenues Charges for Services	Net Expenses and Changes in Net Position
Business -Type Activities:			
Sewer	$ 673,548	$ 641,506	$ (32,042)
Total	$ 673,548	$ 641,506	(32,042)
Unrestricted investment earnings			20,714
Other			234
Total general revenues			20,948
Change in net position			(11,094)
Net position - beginning			871,078
Net position - ending			$ 859,984

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT
STATEMENT OF REVENUES COLLECTED, EXPENSES PAID AND CHANGES IN NET POSITION ARISING FROM MODIFIED CASH TRANSACTIONS
YEAR ENDED DECEMBER 31, 2023

Operating Revenues Collected:	
User fees	$ 641,506
Total Operating Revenues Collected	641,506
Operating Expenses Paid:	
Repair and maintenance	87,920
Bank fees	3
Insurance	22,791
Professional services	2,800
Electricity	93,128
Contract management	353,592
Total Operating Expenses Paid	560,234
Income (Loss) from Operations	81,272
Nonoperating Revenues (Expenses):	
Interest received	20,714
Miscellaneous revenue	234
Capital improvements, equipment	(113,314)
Net Nonoperating Revenues (Expenses)	(92,366)
Net Income (Loss)	(11,094)
Net Position, beginning of year	871,078
Net Position, end of year	$ 859,984

See Notes to Financial Statements

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT NOTES TO FINANCIAL STATEMENTS DECEMBER 31, 2023

I. SUMMARY OF SIGNIFICANT ACCOUNTING PRINCIPLES

Reporting Entity

The Organization was formed in 1984 under authorization set forth by Section 250.20 of the Revised Statutes of the State of Missouri as amended. The purpose of the Organization is to operate and maintain a sewage treatment plant owned by the cities of Lake Ozark and Osage Beach.

The Board has developed criteria to determine whether outside agencies, with activities which benefit the patrons of the Board, should be included within its financial reporting entity. The criteria includes, but is not limited to, whether the Board exercises oversight responsibility (which includes financial interdependency, selection of governing authority, designation of management, ability to significantly influence operations and accountability for fiscal matters), scope of public service, and special financing relationships.

The Board has determined that no other outside agency meets the above criteria, and therefore, no other agency has been included as a component unit in the Board's financial statements. In addition, the Board is not aware of any entity which would exercise such oversight which would result in the Board being considered a component unit of the entity.

Basis of accounting refers to when revenues and expenditures are recognized in the accounts and reported in the financial statements.

The accounts of the Board are maintained, and the accompanying financial statements have been prepared, on the modified cash basis of accounting. Therefore, revenues and expenditures are recognized only when collected or paid, and receivables and accrued liabilities are not reflected in the financial statements.

The Board distinguishes operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with the Board's principal ongoing operations. The principal operating revenues of the Board's enterprise fund are fees charged to the cities of Osage Beach and Lake Ozark, and waste handling fees. The principal operating expenses of the Board are contract management, hauler fees and insurance. All revenues and expenses not meeting these definitions are reported as non-operating revenues and expenses. The Board first utilizes unrestricted resources to finance qualifying activities. Amounts reported as program revenues include user fees.

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023

I. SUMMARY OF SIGNIFICANT ACCOUNTING PRINCIPLES (continued)

Cash and Investments

Cash consists of amounts in demand deposits and certificates of deposit. The Board considers all highly liquid investments maturing within three months to be cash equivalents. Cash balances are invested to the extent available. Investments include certificates of deposit. Investments are stated at cost or amortized cost.

State statutes authorize the Board to invest in obligations of the U.S. Treasury, commercial paper, corporate bonds, repurchase agreements and the State Treasurer's Investment Pool.

Restricted Assets

Certain resources are classified as restricted assets on the balance sheet because their use is limited by applicable organizational agreements.

Capital assets are charged to expenditures as they are paid. Capital improvements and equipment report the cost of property, plant and equipment.

Budgets and Budgetary Practices

The board members are responsible for the approval of an annual operating budget. A formal budget was adopted October 18, 2022 and amended October 17, 2023. The Board was in compliance with State statutes in accordance with Sections 67.010 to 67.080, RSMo 1986.

Compensated Absences

The Board has no policy providing for compensated absences.

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT NOTES TO FINANCIAL STATEMENTS DECEMBER 31, 2023

II. DETAILED NOTES ON ALL FUNDS

A. Cash and Investments

The Board complies with various restrictions on deposits and investments which are imposed by state statutes as follows:

Deposits - Missouri statutes require that all deposits with financial institutions be collateralized in an amount at least equal to uninsured deposits.

Investments - The Board may purchase any investments allowed by the State Treasurer. These include (1) obligations of the United States government or any agency or instrumentality thereof maturing and becoming payable not more than three years from the date of purchase, or (2) repurchase agreements maturing and becoming payable within ninety days secured by U. S. Treasury obligations or obligations of U.S. government agencies or instrumentalities of any maturity, as provided by law.

Deposits:

The Board's deposits, including restricted assets, are stated at cost and are composed of the following:

	Maturity Date	Carrying Value
Deposits:		
Demand deposits		$ 247,171
Investments:		
Time deposit	01/31/24	114,921
Time deposit	05/07/24	270,000
Time deposit	01/22/25	117,255
Time deposit	02/20/25	110,637
Total deposits & investments		$ 859,984

Custodial credit risk. Deposits in financial institutions, reported as components of cash and investments, had a bank balance of $861,527 at December 31, 2023, which was fully insured by depository insurance.

Investment interest rate risk. The Board has no formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. Maturities of investments held at December 31, 2023, are provided in the previous schedule.

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2023

II. DETAILED NOTES ON ALL FUNDS (continued)

Investment credit risk. The Board maintains cash deposits and investments which are authorized by the Board. The Board invests idle funds in certificates of deposit.

Concentration of investment credit risk. The Board places no limit on the amount it may invest in any one issuer. At December 31, 2023, the Board had no concentration of credit risk.

B. Restricted Assets and Net Position

The 1984 agreement for Joint Design, Construction, Ownership, Operation and Maintenance of the Lake Ozark - Osage Beach Sewage Treatment Plant established amounts required to be deposited in an equipment replacement account. All required deposits to those accounts have been made. The restrictions are as follows:

	Restricted Cash and Investments	Restricted Net Position
Equipment Replacement Account	$ 488,818	$ 488,818

C. Expense Allocation

Per the 2023 budget of the Board, the expenses of operating the sewer treatment plant are to be shared by the cities in the following percentages for 2023:

Lake Ozark	17.00%
Osage Beach	83.00%

For the year ended December 31, 2023, the percentages actually contributed are as follows:

Lake Ozark	15.07%
Osage Beach	84.93%

D. Professional Services

Professional services expense includes accountant fees paid during 2023.

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT NOTES TO FINANCIAL STATEMENTS DECEMBER 31, 2023

III. OTHER INFORMATION

A. Ownership of Facility

Ownership of the sewage treatment plant and its real and personal property is vested and titled equally in the names of Lake Ozark and Osage Beach as tenants in common.

Costs incurred in building the facility and related equipment were paid directly by the cities of Lake Ozark and Osage Beach.

B. Contingent Liabilities

Amounts received or receivable from grantor agencies are subject to audit and adjustment by grantor agencies, principally by the federal government. Any disallowed claims, including amounts already collected, may constitute a liability of the applicable funds. The amount, if any, of expenditures which may be disallowed by the grantor cannot be determined at this time, although the government expects such amounts, if any, to be immaterial.

C. Litigation

Management believes there are no outstanding matters which will have a material effect on the financial statements of the Board.

D. Commitments

On December 12, 2018, the Board entered into an agreement with Alliance Water Resources, Inc. to provide operation, maintenance and management services for Board facilities for the period January 1, 2019 through December 31, 2024. The agreement is terminable each December 31 and must be renegotiated annually with written documentation given Alliance by the Board no later than July 31 of each year during the three year term.

E. Risk Management

The Board is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; and natural disasters for which the Board carries commercial insurance.

THE JOINT BOARD OF THE LAKE OZARK – OSAGE BEACH SEWAGE TREATMENT PLANT NOTES TO FINANCIAL STATEMENTS DECEMBER 31, 2023

III. OTHER INFORMATION (continued)

F. Consideration of Subsequent Events

Subsequent events have been evaluated through April 10, 2024, which is the date the financial statements are available to be issued. No events requiring disclosure were identified as a result of this review.

SUPPLEMENTARY INFORMATION

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT
STATEMENT OF REVENUES COLLECTED, EXPENSES PAID AND CHANGES IN NET POSITION ARISING FROM MODIFIED CASH TRANSACTIONS - WITH BUDGET COMPARISONS
YEAR ENDED DECEMBER 31, 2023

	Budgeted Amounts		Actual	Variance with
	Original	Final	Amounts	Final Budget
OPERATING REVENUES COLLECTED:				
User fees	$ 636,650	$ 636,650	$ 641,506	$ 4,856
Total Operating Revenues Collected	636,650	636,650	641,506	4,856
OPERATING EXPENSES PAID:				
Repairs and maintenance	101,500	126,000	87,920	38,080
Bank fees	-	-	3	(3)
Insurance	23,000	23,000	22,791	209
Professional fees	2,800	2,800	2,800	-
Electricity	86,000	93,000	93,128	(128)
Contract management	360,000	360,000	353,592	6,408
Total Operating Expenses Paid	573,300	604,800	560,234	44,566
Net Income (Loss) from Operations	63,350	31,850	81,272	49,422
NON-OPERATING REVENUES (EXPENSES):				
Interest received	6,500	6,500	20,714	14,214
Miscellaneous revenue	-	-	234	234
Capital improvements, equipment	(103,000)	(120,000)	(113,314)	6,686
Net Non-Operating Revenues (Expenses)	(96,500)	(113,500)	(92,366)	21,134
Net Income (Loss)	(33,150)	(81,650)	(11,094)	$ 70,556
Net Position, beginning of year	871,078	871,078	871,078	
Net Position, end of year	$ 837,928	$ 789,428	$ 859,984	

COMPLIANCE AND INTERNAL CONTROL

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INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

Board of Directors
The Joint Board of the Lake Ozark - Osage Beach
Sewage Treatment Plant
Osage Beach, Missouri

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities of The Joint Board of the Lake Ozark - Osage Beach Sewage Treatment Plant (the "Board"), as of and for the year ended December 31, 2023 and the related notes to the financial statements, which collectively comprise the Board's basic financial statements and have issued our report thereon dated April 10, 2024.

Report on Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Board's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Board's internal control. Accordingly, we do not express an opinion on the effectiveness of the Board's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Board's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance that are required to be reported under *Government Auditing Standards.*

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Gerding, Korte & Chitwood, P.C.

April 10, 2024

Gerding, Korte & Chitwood, P.C.
Certified Public Accountants
Boonville, Missouri

THE JOINT BOARD OF THE LAKE OZARK - OSAGE BEACH SEWAGE TREATMENT PLANT

AUDIT COMMUNICATIONS LETTER

DECEMBER 31, 2023

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GERDING, KORTE & CHITWOOD CPAS

Professional Corporation

Certified Public Accountants

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Board of Directors
The Joint Board of the Lake Ozark - Osage Beach
Sewage Treatment Plant
Osage Beach, Missouri

We have audited the financial statements of the business-type activities of The Joint Board of the Lake Ozark - Osage Beach Sewage Treatment Plant (the "Board") for the year ended December 31, 2023. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards and *Government Auditing Standards*, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated November 16, 2023. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Findings

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the Board are described in Note I to the financial statements. No new accounting policies were adopted and application of existing policies was not changed during 2023. We noted no transactions entered into by the Board during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to the financial statements taken as a whole.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated April 10, 2024.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the Board's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Board's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We were engaged to report on the statement of revenues collected, expenses paid and changes in net position arising from modified cash transactions – with budget comparisons, which accompanies the financial statements but is not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with the modified cash basis of accounting, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the management's discussion and analysis, which accompanies the financial statements but is not RSI. We did not audit or perform other procedures on this other information and we do not express an opinion or provide any assurance on it.

Restriction on Use

This information is intended solely for the use of the Board of Directors, management and others within the Board and is not intended to be and should not be used by anyone other than these specified parties.

Gerding, Korte & Chitwood, P.C.

April 10, 2024

Gerding, Korte & Chitwood, P.C.
Certified Public Accountants
Boonville, Missouri