

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA**

**March 21st, 2023 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

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

3. MINUTES

Page Numbers

Regular Meeting: February 21st 2023

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4. REPORTS

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

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5. ALLIANCE REPORT OF OPERATIONS

19-42

6. APPROVAL OF FEBRUARY FLOW CHARTS

7. OLD BUSINESS

A. Board Representative Update

8. NEW BUSINESS

A. Discussion and possible action on bids for the UV wiper holders

B. Discussion and possible action on bids for pulling aerator gear boxes and replacing bolts

C. Discussion and possible action on bids to supply and install new flow meters and sensors

D. Introduction of Mr. Josh Duncan

E. State and Federal Regulatory Compliance Reports

9. **ADDITIONAL DISCUSSION ITEMS**

10. **ADJOURNMENT**

THE NEXT MEETING WILL April 18th, 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes -- February 21st, 2023

CALL TO ORDER:

Mayor Newberry called the meeting to order at 4:00 pm on Tuesday, February 21, 2023 at Lake Ozark City Hall.

ROLL CALL:

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

MINUTES:

Alderman Thompson motioned to approve the meeting minutes from January 17th 2023. Her motion was seconded by Manager Crooks and passed unanimously.

REPORTS:

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

A motion was made by Administrator Fry to approve the Bills List, Revenue Budget Analysis, Expenditure Budget Analysis and the Income & Expense Summary. His motion was seconded by Alderman Thompson and was passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for January was 0.961 mgd. We had 2.8 inches in January of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 2.7 mg/l and 2.3 mg/l respectively for January which represents a 98.6 + % or better removal.

The MLSS average for both aeration basins was 4,831 mg/l in January. The total dry weight sludge inventory for January totaled 257,625 pounds. We received 35 loads of septage or 74,500 gallons for January.

APPROVAL OF FLOW CHART:

Alderman Rucker motioned to approve the flow chart. The motion was seconded by Director Michalik and was unanimously approved.

OLD BUSINESS:

- A. Board Representative Update. Director Michalik advised that the plant is performing as expected. He also advised that all of the bolts on the aerators should be replaced as a preventative measure.

NEW BUSINESS:

- A. Janitorial Contract from Jani-King Cleaning. After discussion, a motion was made by Alderman Rucker to approve the contract. His motion was seconded by Alderman Thompson and was passed unanimously.
- B. Alliance provided copies of the updated 2023 Emergency Response Plan and plant inventory. After discussion, a motion made by Director Michalik to approve the 2023 Emergency Response Plan and Plant Inventory. His motion was seconded by Manager Crooks and passed unanimously.
- C. A draft of the 5-year Capital Improvement Plan was reviewed and discussed. A motion was made by Director Michalik to approve the Capital Improvement Plan. His motion was seconded by Manager Crooks and passed unanimously.
- D. Review and discussion for the replacement of the Andco Actuator for Clarifier #2. After discussion, a motion made by Director Michalik to approve the bid from Dresser Utility Solutions in the amount of \$15,455.00. His motion was seconded by Manager Crooks and was approved unanimously.

ADDITIONAL DISCUSSION ITEMS:

Operations Manager Crooks advised that he will be obtaining his sewer treatment plant operators license this year.

ADJOURNMENT:

With no further business to discuss, a motion was made by Alderman Thompson to adjourn. Her motion was seconded by Director Michalik. The meeting adjourned at 4:32 pm.

Approved:

Dennis Newberry, Mayor

Robin Craig, Clerk

JOINT SEWER BOARD
BILL LIST
MARCH 21, 2023

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 1,442.97
OPERATING FUND BILLS TO BE PAID:	\$ 69,172.63
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ 75,426.28

TOTAL \$ 146,041.88

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Paid To:	Description:	Amount:
4176	Ferrellgas	277.5 gallons propane	\$ 637.97
4020	Haynes Equip	Replace Sampler Batteries	\$ 805.00
TOTAL			\$ 1,442.97

OPERATING FUND BILLS TO BE PAID:

Account	Paid To:	Description:	Amount:
4000	Equipment Replacement Fund	Payment into ER Fund	\$ 5,000.00
4020	Core & Main	Chlorine	\$ 175.00
4020	CWD Supply	Bolts for Pista Grit	\$ 54.76
4020	JCI Industries, Inc.	RAS Pump Repair	\$ 1,000.00
4020	John Henry Foster	UV Wiper Supplies	\$ 680.41
4020	Majestic Franchising Inc.	March	\$ 275.00
4020	M/C Calco Industrial Electronic	Overload relay for Bar Screen	\$ 493.02
4020	M/C Calco Industrial Electronic	Contactore & Relay Pista Grit	\$ 214.19
4020	M/C QuickBooks	Accounting Software	\$ 30.00
4020	M/C Kwik Kar	Oil Chg & Interlor Clean	\$ 131.00
4020	Menards	Bleach	\$ 64.62
4020	Menards	Garden Hose & reel	\$ 139.99
4020	Municipal Equip	Disconnect Switch Aerator #1	\$ 924.63
4020	UV Doctor	UV Wiper Rings	\$ 3,375.83
4140	Cincinnati Insurance	Property, Lia, Auto 4/10/23 to 4/10/24	\$ 21,898.00
4170	Alliance Water Resources, Inc.	March	\$ 29,466.00
4175	Ameren MO	11673321	\$ 4,943.90
4175	Ameren MO	98041275	\$ 129.71
4176	AT&T	March	\$ 104.40
4176	Republic	March	\$ 72.17
TOTAL			\$ 69,172.63

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Paid To:	Description:	Amount:
4000	Zeller Technologies, Inc	New Gear Box for Aerator #1	\$ 75,426.28
4000			\$ -
TOTAL			\$ 75,426.28

Remit To:

JCI Industries, Inc.
PO Box 411114
Kansas City, MO 64141
816-526-3320



INVOICE

INVOICE	
8248596	
Invoice Date	Page
03/08/2023	1 of 1
ORDER NUMBER	
1223104	

Branch 06

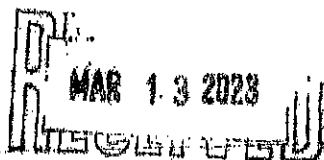
JEFFERSON CITY

Bill To:

LAKE OZARK/OSAGE BEACH JOINT SEWER BC
PO BOX 1985
LAKE OZARK, MO 65049

Ship To:

ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049



Customer ID: 400263

Customer ID: 400263

PO Number		Term Description		Net Due Date	
GARY HUTCHCRAFT-18		Net 30		4/7/2023	
Order Date	Pick Ticket No	Primary Salesrep Name		Order Taker	
1/13/2023 10:29:12	3235869	Jeff City JCI warranty II		HHASKELL	
Quantities			Item ID	Pricing UOM	Unit Price
Ordered	Shipped	Remaining	UOM Unit Size	Item Description	Unit Size
1.00	1.00	0.00	EA	P FAIRBANKS 01-11-23	EA
			1.0	FAIRBANKS PUMP	1.0000
					1,000.00

Total Lines: 1

SUB-TOTAL: 1,000.00

TAX: 0.00

AMOUNT DUE: 1,000.00

Carrier: JCI TO DELIVER

Tracking #:

Merchandise cannot be returned without permission. Claims for shortages or errors must be made in writing within thirty (30) days after receipt of goods. All approved returns must include a JCI return authorization number and may be subject to a restocking fee up to 25%.

RAS PUMP REPAIR

GL Acct#:

4020

Signature:

Gary Hutchcraft

Date:

3/13/23

JCI Industries, Inc. acceptance of buyer's order is conditioned upon buyer's assent to the terms and conditions set forth on <http://www.jcind.com/taide>. Any additional or contrary terms are hereby rejected.

ORIGINAL

UV Doctor Lamps, LLC
209 S. Washington Avenue
Newport, WA 99156

INVOICE

RECEIVED
MAR 07 2023

Invoice #	16121
-----------	-------

Bill To:
JOINT SEWER BOARD
ALLIANCE WATER RESOURCES, INC
ATTN: ACCOUNTS PAYABLE
PO BOX 1988
LAKE OZARK, MO 65049

Ship To:
ALLIANCE WATER RESOURCES, INC
LAKE OF THE OZARKS REG
WWTP - GARY HUTCHCRAFT
#3 ANDERSON ROAD
LAKE OZARK, MO 65048

Date	P.O. No.	Ship Via	FOB		Terms	Due Date
2/28/2023	email-Gary	UPS	Newport WA		NET 30	3/30/2023
Item	Description	Ordered	Shipped	Unit Price	Amount	
1648	WEDECO WIPER RING - 4 TURN TEFLON - #33639	144	144	23.00	3,312.00	
FREIGHT	SHIPPING AND HANDLING: UPS TRACKING 1ZC871XV0393339676. Estimated Delivery Monday March 6, 2023.			63.83	63.83	

REPLACEMENT UV WIPER RINGS

GL Acct#: 4020

Signature: Gary Hutchcraft

Date: 3/7/23

ALL PAST DUE INVOICES ARE SUBJECT TO A FINANCE CHARGE OF 1.5%, PER MONTH, AND ANY ADDITIONAL EXPENSES AND ATTORNEY FEES ASSOCIATED WITH THE COLLECTION OF THIS INVOICE.

REMIT TO
UV DOCTOR LAMPS, LLC
209 S. WASHINGTON AVE.
NEWPORT, WA 99156

Tel: # (509) 447-5800
Fax: # (509) 447-5822

Sales Tax (0.0%)	\$0.00
Total	\$3,375.83
Payments/Credits	\$0.00
Balance Due USD	\$3,375.83



March 8, 2023

Lake Ozark-Osage Beach Joint Sewer Treatment Plant
1000 City Parkway
Osage Beach, MO 65065

RE: Commercial Automobile # ETA 0484322
Policy Term: April 10, 2023 to April 10, 2024

Dear Karri Bell:

We are pleased to deliver the renewal of your commercial auto policy with Cincinnati Insurance. Please review your policy for accuracy and completeness and advise if any changes need to be made. I have also enclosed the auto ID cards.

The invoice for the renewal premium will be sent directly by the carrier.

Please review your policies carefully for accuracy and advise of any changes, corrections or coverage questions. Higher limits may be available and can be quoted upon request.

Your commercial property, liability, and umbrella policy are on the third year of a three policy from 4/10/2021 – 4/10/2024. You will not receive a new policy this year but will receive your annual billing statement from the company.

Thank you for the opportunity to service this important coverage. We take pride in our commitment to provide you with our professional services. You are important to us and our staff will work hard to service and support your insurance needs.

Should you need additional information or if we can be of assistance, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script that reads 'Camillia Naught'.

Camillia Naught
Sr Acct Exec (II) - CL

Phone: (573) 392-7141
E-Mail: cnaught@naught-naught.com

THE CINNATI INSURANCE COMPANIES

☒ THE CINNATI INSURANCE COMPANY ☐ THE CINNATI INDEMNITY COMPANY
☐ THE CINNATI CASUALTY COMPANY

Named Insured: LAKE OZARK OSAGE BEACH JOINT SEWER TREATMENT PLANT

Policy Number: ETD 048 43 22 / ETA 048 43 22

Policy Period: 04-10-2021 to 04-10-2024

Effective Date of Change: 04-10-2023

Endorsement Number: 4

Agency Name: ASSURED PARTNERS OF MISSOURI, LLC 24-016
COLUMBIA, MO

Explanation of Billing

A change was recently made to your policy with The Cincinnati Insurance Companies. Attached to this summary is the endorsement that amends your policy.

The additional premium for this endorsement is \$ 321
This premium is for the time period of 04-10-2023 to 04-10-2024. You will receive a statement based on the payment option you have selected.

Please contact your agency if you have any questions concerning your policy or statement:

ASSURED PARTNERS OF MISSOURI, LLC
3928 S PROVIDENCE RD
COLUMBIA, MO 65203-7152

573-634-2727

This is not a bill. No payment is necessary at this time.

SUMMARY OF PREMIUMS CHARGED

Attached to and forming part of

POLICY NUMBER: ETD 048 43 22 / ETA 048 43 22

Effective Date: 04-10-2023

Named Insured: LAKE OZARK OSAGE BEACH JOINT SEWER TREATMENT PLANT

THIS POLICY CONSISTS OF THE FOLLOWING COVERAGE PARTS FOR WHICH A PREMIUM CHARGE IS INDICATED

[illegible]

	First Installment	Remaining Installment(s)
ANNUAL	*	*

*SEE BILLING STATEMENT MAILED SEPARATELY

Automobile Coverages, Employers Liability, Employment Practices Liability Coverage, Professional Liability Coverage, Terrorism Coverage and / or Wrongful Acts Coverage, if included in the policy, are subject to Annual Adjustment of rates and premium on each anniversary of the policy.

Commercial Umbrella and Excess Liability, if included in the policy, may be subject to Annual Adjustment of premium on each anniversary. Refer to the Commercial Umbrella or Excess Liability Coverage Part Declarations form to see if this is applicable.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED

IA 102 A 09 08



- Pay by phone: 1.866.208.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

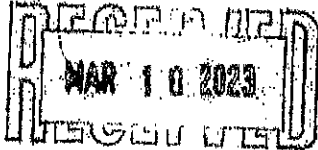
FOCUSED ENERGY. For life.

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

Current Detail for Statement D3/10/2023

Total Electric Charges \$4,943.90

Total Amount Due \$4,943.90



AMOUNT DUE \$4,943.90

Due Date 03/31/2023

Amount After Due Date \$4,993.34

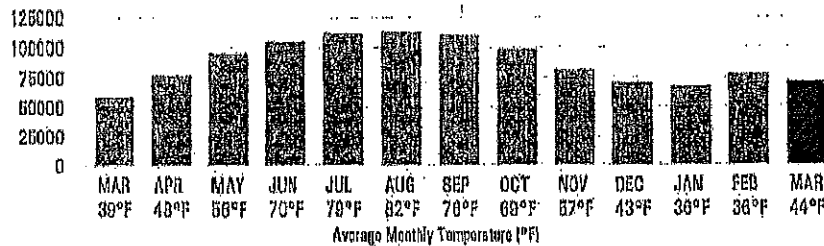
Previous Statement \$4,752.81

Total Payments \$4,752.81

Payment Received, Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 25.9% more than last year.

2022 171,680 kWh

2023 216,160 kWh

Usage from Jan-Mar for 2022 & 2023

13073
03664 2184679 0001 092139 10Z

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 Acc#: 4175

Signature: *[Signature]*

Date: 3/10/23



» See next page for service details.

Keep this portion for your records.

Page 1 of 4

Please return this portion with your payment.



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Amount Due	Due Date
\$4,943.90	March 31, 2023
Delinquent Amount After Due Date	Account Number
\$4,993.34	4580005832

Amount Enclosed \$

>003664 2184679 0001 092139 10Z

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

40600000 0045800058302 000004943900 000004943900



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- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3738

FOCUSED ENERGY. For life.

Electric Service Details

Service from 02/07/2023 - 03/08/2023 (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	02/07 - 03/08	29	Total kWh	Actual	78298.0000	77850.0000	448.0000	180.0000	71200.0000
11673321	02/07 - 03/08	29	Peak kW	Actual	0.9970	0.0000	0.9970	180.0000	183.1000

Usage Summary

Total kWh	71200.0000	Non-Summer kWh	71200.0000
Peak kW	183.1000	Billing Demand	183.1000
Total Billing Demand	183.1000	October Winter Base kW	184.8000
Winter Base Demand	183.1000	Base kWh Ratio	1.0000
Base kWh (HUD)	71200.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03870000	\$0.00
Summer Demand Charge	183.10	kW	@ \$ 0.00000000	\$0.00
Winter Demand Charge	183.10	kW	@ \$ 2.10000000	\$384.76
Energy Charge/Hours Used	0.00	kWh	@ \$ 0.10540000	\$0.00
Base Energy Charge / Hours Used	22,985.00	kWh	@ \$ 0.06620000	\$1,520.28
Base Energy Charge / Hours Used	30,820.00	kWh	@ \$ 0.04920000	\$1,506.80
Base Energy Charge / Hours Used	17,615.00	kWh	@ \$ 0.03870000	\$681.70
Customer Charge				\$104.88
Fuel Adjustment Charge	71,200.00	kWh	@ \$ 0.00627000	\$446.42
Energy Efficiency Investment Charge	71,200.00	kWh	@ \$ 0.00457100	\$325.48
Renewable Energy Adjustment	71,200.00	kWh	@ \$ 0.00035000	\$24.92
Total Service Amount				\$4,943.80
Total Electric Charges				\$4,943.80

Questions? Contact Ameren Missouri at 1.877.426.3738 or visit AmerenMissouri.com.

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



ONLINE
E-CHECK



PHONE
888.288.3729



IN PERSON
FIND A PAY STATION AT
AMERENMISSOURI.COM/PAYSTATION



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CREDIT CARD



MAIL
STUB & CHECK



- Pay by phone: 1.800.286.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3730

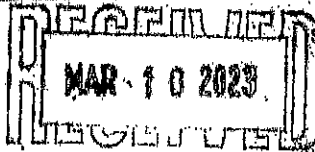
FOCUSED ENERGY. For life.

Account Number 6580005920
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65049

Current Detail for Statement 03/10/2023

Total Electric Charges \$129.71

Total Amount Due \$129.71



AMOUNT DUE \$129.71

Due Date 03/31/2023

Amount After Due Date \$131.01

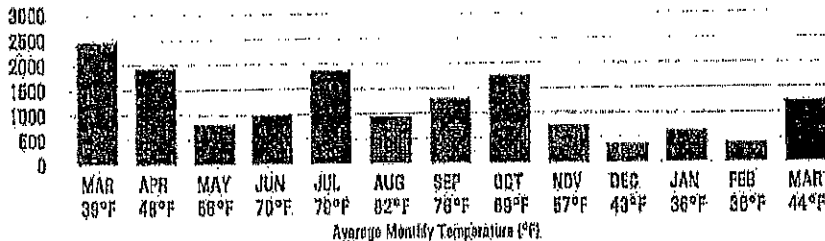
Previous Statement \$66.63

Total Payments \$66.63

Payment Received: Thank You

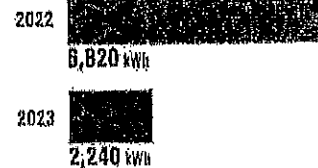
Electric Usage History

Electric Usage In (Kilowatt Hours (kWh))



Electric Usage Summary (kWh)

So far this year, you're using 67.2% less than last year.



Usage from Jan-Mar for 2022 & 2023

13073 02563-2134579 007311 076521 0074002

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: *Larry A. Hutchings*

Date: 3/10/23

See next page for service details.

Keep this portion for your records.

Page 1 of 4

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Amount Due	Due Date
\$129.71	March 31, 2023
Delinquent Amount After Due Date	Account Number
\$131.01	6580005920

Amount Enclosed \$

>003663 2184679 0001 092139 10Z

ALLIANCE WATER RESOURCES INC
 PO BOX 1986
 LAKE OZARK, MO 65049-1986

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

10633000 0055800059200 000000129710 000000129710



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

FOCUSED ENERGY. For life.

Electric Service Details

Service from 02/07/2023 - 03/08/2023 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
88041276	02/07 - 03/08	29	Total kWh	Actual	26594.0000	25472.0000	122.0000	10.0000	1220.0000
88041276	02/07 - 03/08	29	Peak kW	Actual	4.3770	0.0000	4.3770	10.0000	43.7700

Usage Summary

Total kWh	1220.0000	Non-Summer kWh	1220.0000
Winter Base kWh	1000.0000	Current Base kWh	1000.0000
Winter Cur Base kWh	1000.0000	Seasonal kWh	220.0000
Winter Seasonal kWh	220.0000		

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	1,000.00	kWh	@ \$ 0.08480000	\$84.80
Seasonal Energy Charge	220.00	kWh	@ \$ 0.04800000	\$10.74
Customer Charge				\$21.88
Fuel Adjustment Charge	1,220.00	kWh	@ \$ 0.00627000	\$7.65
Energy Efficiency Investment Charge	1,220.00	kWh	@ \$ 0.00348000	\$4.23
Renewable Energy Adjustment	1,220.00	kWh	@ \$ 0.00035000	\$0.43
Total Service Amount				\$129.71
Total Electric Charges				\$129.71

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
February 27, 2023	\$50.63

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

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



ONLINE
E-CHECK



PHONE
866.268.3729



IN PERSON
FIND A PAY STATION AT
AMERENMISSOURI.COM/
PAYSTATION



ONLINE
CREDIT CARD



MAIL
STUB & CHECK

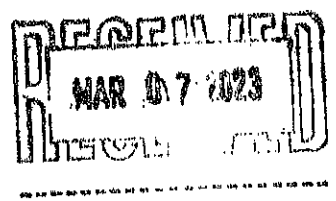
Zeller Technologies
inc.

4250 HOFFMEISTER AVENUE
ST. LOUIS, MISSOURI 63125
314-638-8847 • FAX 314-638-8318
1-800-530-5810



*** INVOICE ***

SOLD TO: JOI0500650
JOINT SEWER BOARD
LAKE OZARK - OSAGE
1000 CITY PARKWAY
OSAGE BEACH MO 65065



INVOICE # EZ13615
DATE 3/2/2023

SHIP TO:
JOINT SEWER BOARD
OSAGE BEACH SEWAGE
TREATMENT PLANT
#3 ANDERSON ROAD
LAKE OZARK MO 65049

P.O. NUMBER	SLS	JOB #	RELEASE NO./SHIPPER NO.	TERMS
1051-20	485	EZ13615		NET 30

QVPE3-UDR-50 HANSEN P4 SPEED REDUCER 1800 RPM RETROFIT FOR
FLENDER XSBN 250

NEW/REPLACEMENT GEAR BOX FOR AERATOR #1

GL Acct#: E/R
Signature: [Signature]
Date: 3/7/22

PLEASE REMIT TO: ZELLER TECHNOLOGIES
4250 HOFFMEISTER AVE
ST LOUIS MO 63125

TOTAL	74,900.00
FREIGHT	526.28
TOTAL DUE	\$75,426.28

TAX ID: MOG

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

2/28/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget	2023 Actual as of 2/28/2023	2023 February Revenue	Percent YTD
3020	Osage Beach	465,202.63	460,708.70	481,940.00	80,299.23	41,117.33	17%
3010	Lake Ozark	84,797.35	91,794.26	98,710.00	14,171.60	7,270.17	14%
3030	Misc.	22,000.00	1,094.92	0.00	0.00	0.00	0%
3100	Interest	2,700.22	2,462.35	2,500.00	1,350.15	655.48	54%
3060	Waste Haulers' Fee	60,520.00	49,490.00	56,000.00	8,085.00	5,095.00	14%
Total Operating Fund		635,220.20	605,550.23	639,150.00	103,905.98	54,137.98	16%
E/R Fund Income		5,508.47	3,588.63	4,000.00	2,024.88	624.11	51%
TOTAL INCOME		640,728.67	609,138.86	643,150.00	105,930.86	54,762.09	16%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
2/28/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget	2023 Actual as of 2/28/2023	2023 February Expenses	Percent YTD
4000	Equipment Replace Fund	143,608.00	55,008.00	60,000.00	10,000.00	5,416.00	17%
4020	*Maintenance & Repair	104,853.81	60,030.11	93,500.00	9,810.76	4,993.15	10%
4140	Insurance	21,493.00	22,088.00	23,000.00	0.00	0.00	0%
4150	Vehicle Repair/Main	11,099.99	5,999.58	8,000.00	0.00	0.00	0%
4170	Contract Management	308,640.00	331,080.00	360,000.00	58,912.00	29,466.00	16%
4175	Electric	82,227.41	79,890.16	81,000.00	9,033.71	4,809.44	11%
4176	Utilities Misc.	3,528.17	3,694.18	5,000.00	1,965.59	802.24	39%
4190	Bank Charges	0.00	12.00	0.00	3.00	0.00	0%
4200	Audit	2,600.00	2,700.00	2,800.00	0.00	0.00	0%
4240	Capital Purchases	399.99	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	560,502.03	633,300.00	89,725.05	45,486.83	14%
	**E/R Expenses	202,161.70	11,093.28	103,000.00	1,180.16	855.37	1%
	TOTAL EXPENSES	880,612.07	571,595.29	736,300.00	90,905.22	46,342.20	12%

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500
Regular Maintenance	20,000
UV Bulbs, Quartz Sleeves, Misc	10,000
Painting RAS basement piping	30,000
Rock for road	3,000
Sandblasting & paint Clarifier #1	30,000

93,500.00

DETAIL: Equipment & Replacement

Replace wooden doors w/fiberglass	3,000
Replace flow meter for the effluent	25,000
*Replace aerator gear box - new	75,000

103,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
2/28/2023

Beginning Balance	349,647.55
Income - Osage Beach	41,117.33
Income - Lake Ozark	7,270.17
Income - Other	-
Income - Waste Haulers' Fees	5,095.00
Interest - Checking	20.64
Income - CD Interest	634.84
Transfers From E/R Fund	-
Transfers To E/R Fund	(5,416.00)
Expenses	(40,070.83)
Ending Fund Balance	358,298.70
Central Bank - NOW Acct.	135,162.01
	-
CD First Bank of the Lake, 11/20/23 #8432	108,731.14
CD First Bank of the Lake, 10/22/23 #8433	115,235.49
	-
Outstanding Checks:	(829.94)
	358,298.70

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
2/28/2023

Beginning Balance	532,600.58
Interest - Checking	215.78
Income - CD Interest	408.33
Transfers From Operating Fund	5,416.00
Income - Miscellaneous	-
Expenses	(855.37)
Ending Fund Balance	537,785.32
First Bank of the Lake - Money Mkt.	157,239.04
CD First Bank of the Lake, 10/31/23 #8430	111,401.65
CD First Bank of the Lake, 2/07/23 #8434	270,000.00
	-
	-
Outstanding Checks:	(855.37)
	537,785.32

WATER RESOURCES® **Alliance** 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.

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

(573)874-8080

REPORT OF OPERATIONS

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

Month of February 2023

Submitted by Alliance Water Resources, Inc. for the

March 2023

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

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

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	3.2	2.7	N/A	0.0		0.07	< 4.9
Peak Day	4.4	3.6	8.5	0.0		0.12	< 4.9
Percent Removal	98.7	99.1	N/A	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126		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 0.974 MGD or 32% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 54864 pounds of BOD.

BIO-SOLIDS APPLICATION AND INVENTORY

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

0 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 540,000 gallons with a level of 6.5 feet in Tank 1 and 5.5 feet in Tank 2.

WASTEHAULERS

The plant received 38 loads of septage during the month totaling 87,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- PMF, the contractor that got the installation of the new aerator gear box was back on the 1st of February to install the new gear box and Zeller came in on the 3rd with their electrician and completed the aerator gear box replacement project. We fired it up later that evening after the gear box got up to correct starting temperatures. Zeller did a vibration check, and everything checked out good.
- Catalyst Electric came in on the 7th of February to install the new breaker in the pista grit panel and came back on the 8th to help troubleshoot a little more. They found a contactor and relay that was bad, so we ordered replacements.
- We received the replacement spider gear insert for Bar Screen #1 and got it installed on the 10th of February, but it still wouldn't startup. Catalyst came in and found that an overload relay was bad, so we ordered a replacement and got it in on the 24th and they came back on the 27th and installed it and got it back in service. Both bar screens are working in the auto mode now.

SAFETY

- We conducted our monthly Safety Meeting on Bloodborne Pathogens & CPR Review on the 16th of February.

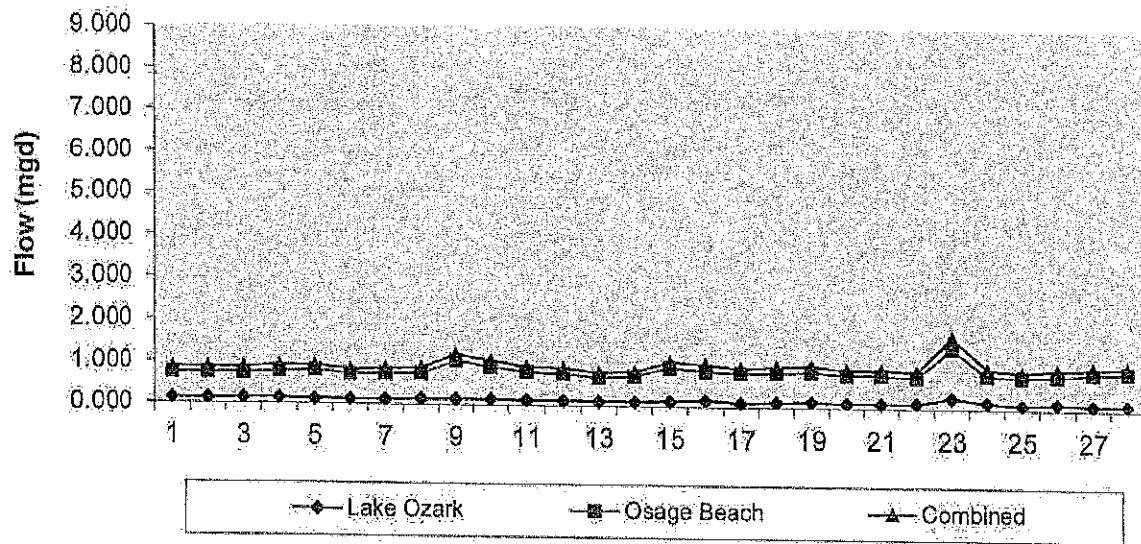
REGULATORY AGENCY, INSPECTION AND REPORT

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

MISCELLANEOUS AND RECOMMENDATIONS

- We have solicited bids for new UV wiper holders, replacing the bad bolts on five of the aerator gearboxes to carousel paddle connection and replacement/new flow meters. (See attached bid sheet)

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

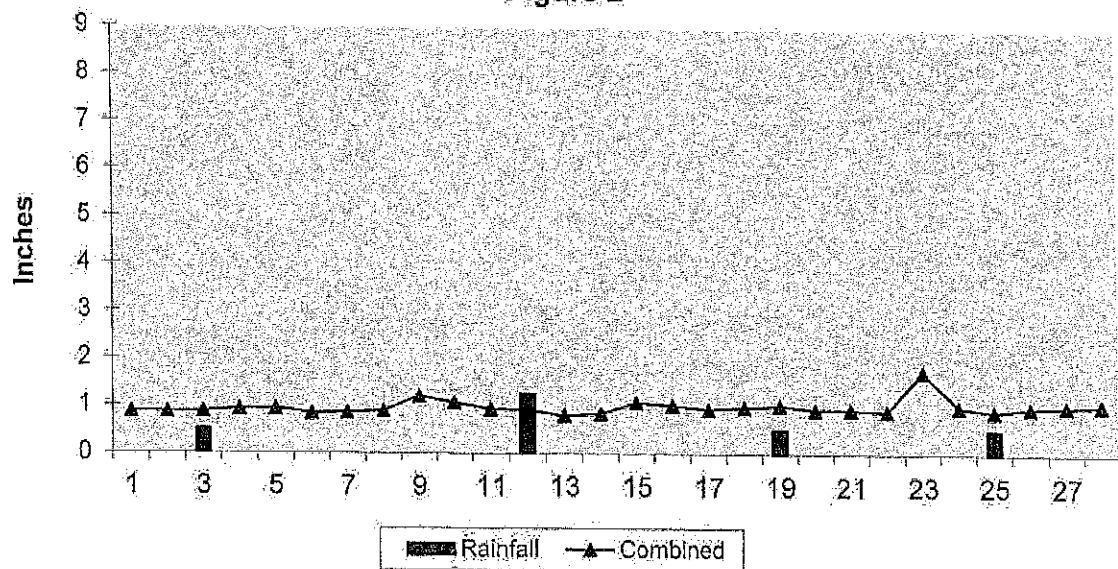


TABLE B
JOINT SEWER BOARD
Monthly Flows

2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695,000	85%	7,390,000	15%	49,085,000	100%
July	6.9	49,378,000	85%	9,000,000	15%	58,378,000	100%
August	1.8	41,691,000	85%	7,211,000	15%	48,902,000	100%
September	3.1	36,185,000	85%	6,306,000	15%	42,491,000	100%
October	6.0	32,925,000	85%	5,987,000	15%	38,912,000	100%
November	0.8	25,192,000	83%	5,025,000	17%	30,217,000	100%
December	2.3	25,041,000	82%	5,317,000	18%	30,358,000	100%

52.2	403,341,000	84%	74,860,000	16%	478,201,000	100%
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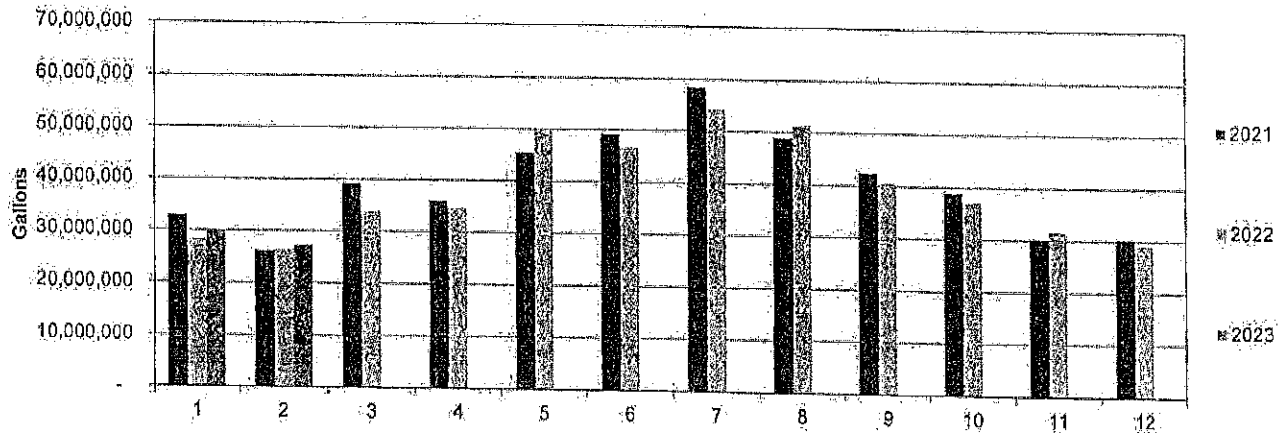
2022	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100%
May	9.1	41,076,000	83%	8,597,000	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%
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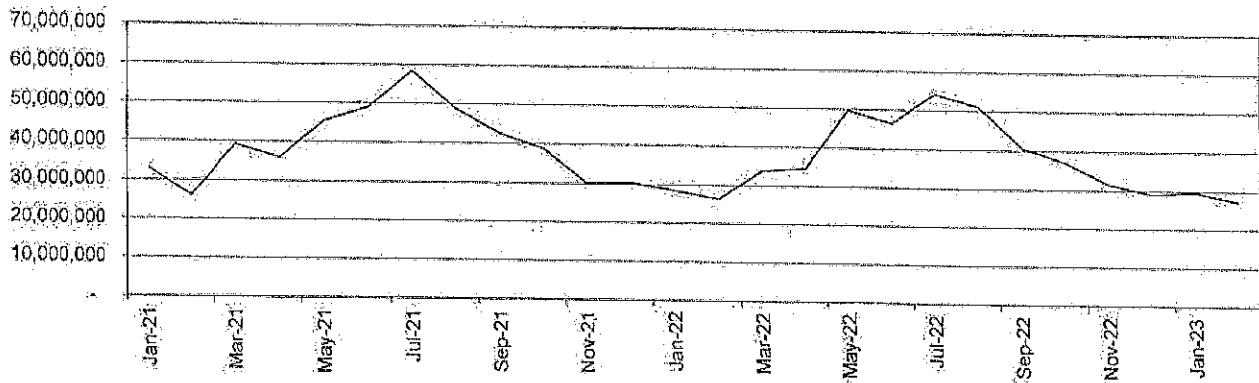
2023	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.8	25,972,000	87%	3,812,000	13%	29,784,000	100%
February	3.9	23,448,000	86%	3,820,000	14%	27,268,000	100%
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

6.7	49,420,000	87%	7,632,000	13%	57,052,000	100%
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Monthly Influent Flow
Figure 3A

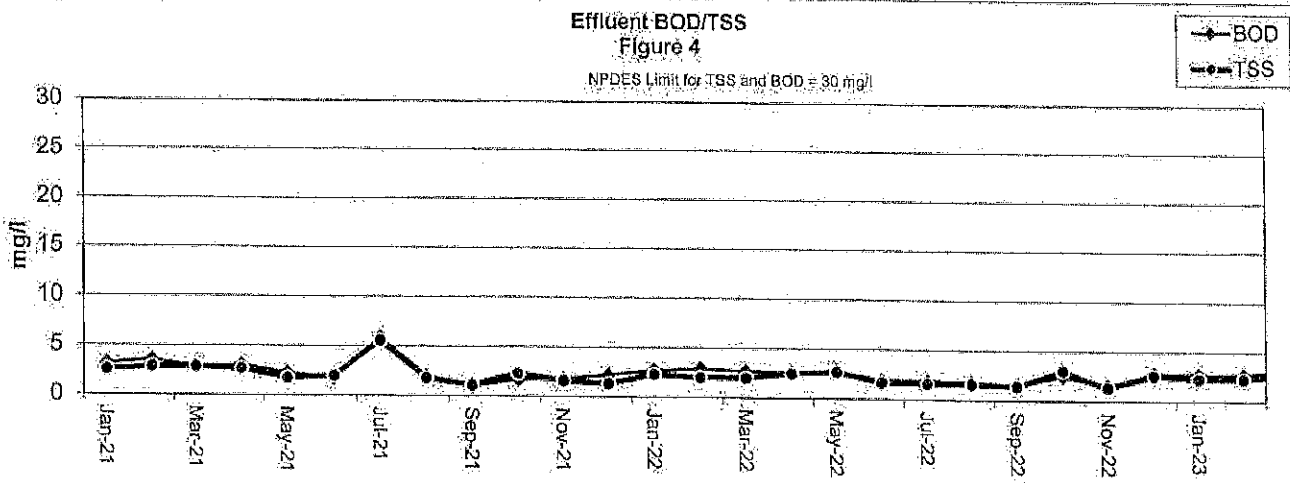


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

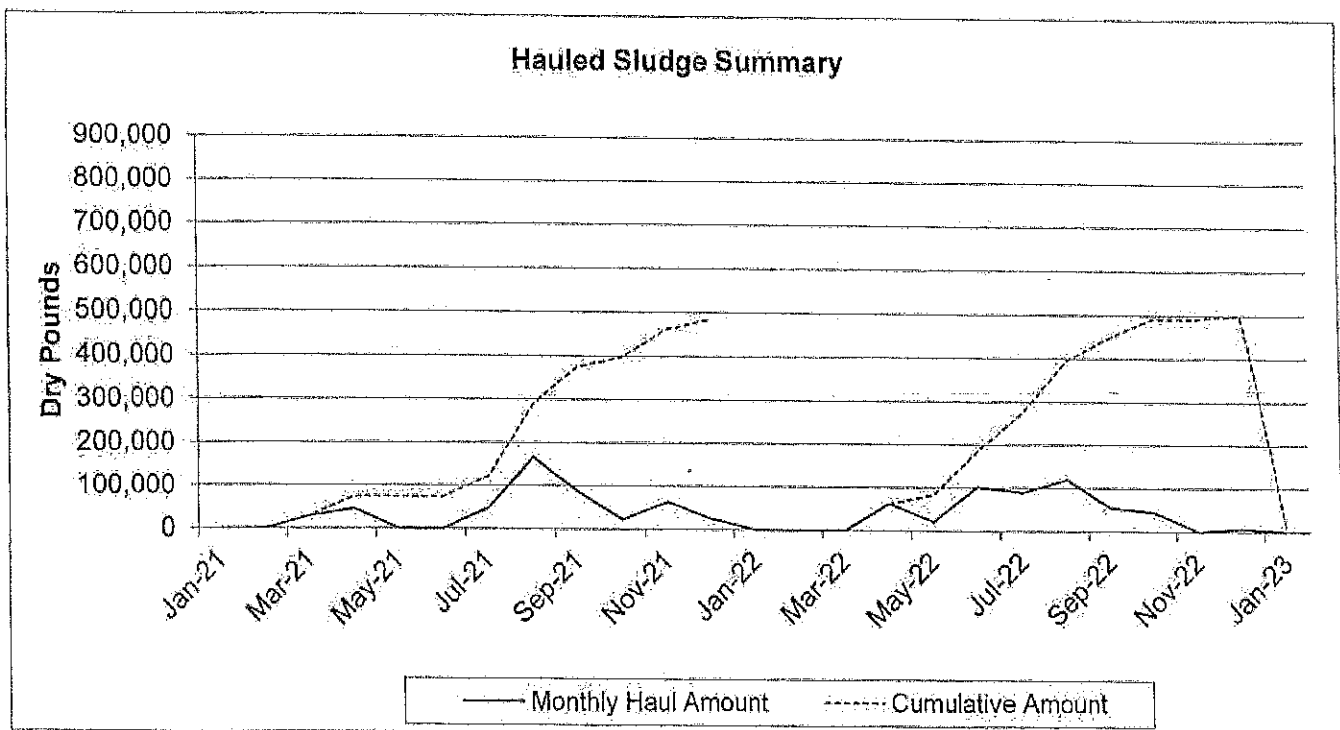
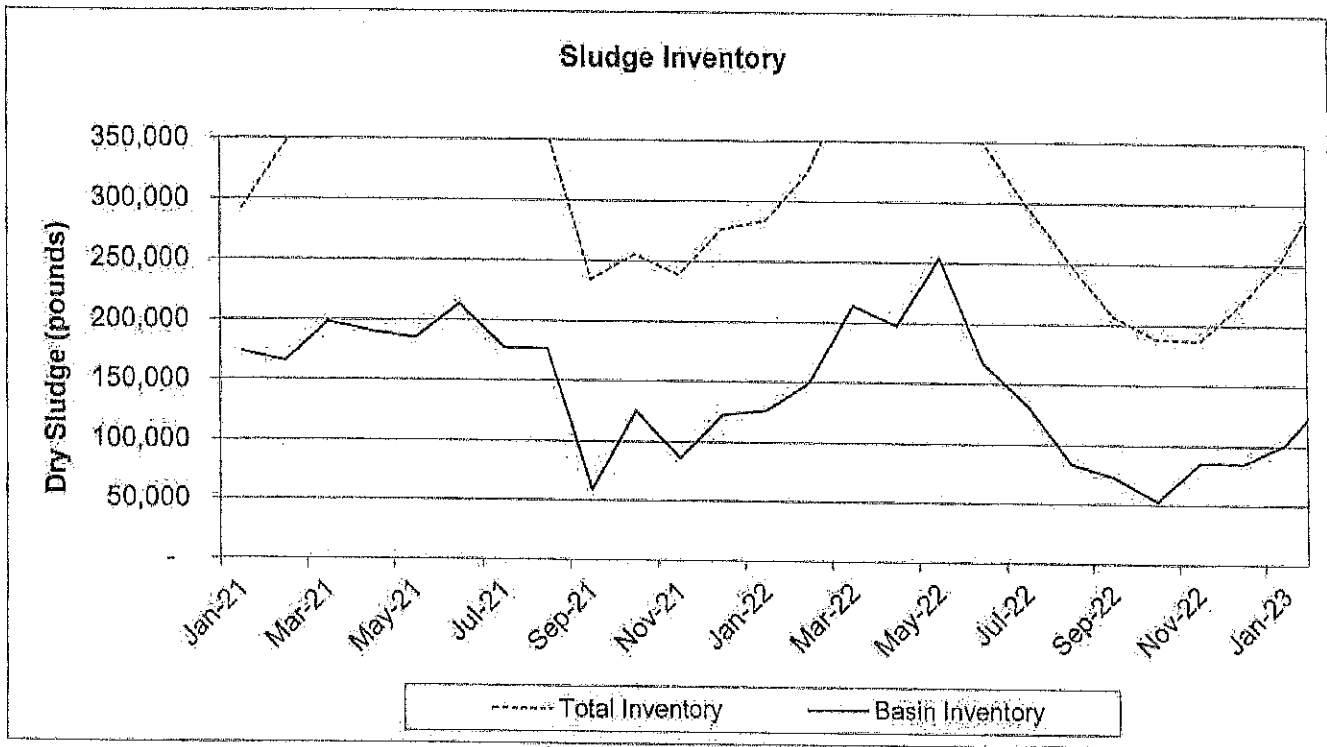


	Hauled Sludge				Annual Cumulative # Dry
	Loads	Gallons	# Dry	% Solids	
Jan-21	0	-	0	4.4%	-
Feb-21	0	-	0	4.4%	-
Mar-21	23	85,100	28,683	4.1%	28,683
Apr-21	39	144,300	45,269	3.8%	74,152
May-21	0	-	0	3.8%	74,152
Jun-21	0	-	0	3.8%	74,152
Jul-21	40	144,000	47,378	3.9%	121,530
Aug-21	153	550,800	166,363	3.6%	287,893
Sep-21	92	331,200	87,226	3.2%	375,119
Oct-21	17	61,200	22,698	4.4%	397,817
Nov-21	46	165,600	53,821	4.6%	451,638
Dec-21	16	57,600	24,139	5.0%	495,577
Jan-22	0	-	0	4.5%	-
Feb-22	0	-	0	4.0%	-
Mar-22	0	-	0	4.4%	-
Apr-22	47	169,200	62,120	4.4%	62,120
May-22	16	57,600	21,017	4.4%	83,137
Jun-22	84	302,400	102,052	4.0%	185,189
Jul-22	80	288,000	88,961	3.7%	274,150
Aug-22	108	388,800	120,426	3.7%	394,576
Sep-22	51	183,600	54,073	3.5%	448,649
Oct-22	42	151,200	44,405	3.5%	493,054
Nov-22	0	-	0	3.5%	493,054
Dec-22	8	28,800	7,745	3.2%	500,800
Jan-23	0	-	0	3.2%	-
Feb-23	0	-	0	3.2%	-

Basin Depths					# Dry
Tank #1	Tank #2	AB #1	Basin	Gallons	
7.0	3.5	0.0	472,500	173,389	
5.0	5.0	0.0	450,000	185,132	
6.0	7.0	0.0	585,000	193,549	
6.0	7.5	0.0	607,500	190,582	
6.0	7.0	0.0	585,000	185,368	
7.0	8.0	0.0	675,000	213,921	
5.0	7.0	0.0	540,000	177,668	
7.0	6.0	0.0	585,000	176,693	
2.0	3.0	0.0	225,000	59,257	
3.5	4.0	0.0	337,500	125,173	
3.0	2.0	0.0	225,000	86,442	
4.0	2.5	0.0	292,500	122,581	
4.5	3.0	0.0	337,500	126,664	
7.0	3.0	0.0	450,000	150,120	
6.0	7.0	0.0	585,000	214,672	
7.0	5.0	0.0	540,000	198,255	
8.5	7.0	0.0	697,500	254,503	
7.0	4.0	0.0	495,000	167,049	
7.0	2.5	0.0	427,500	132,051	
2.0	4.0	0.0	270,000	83,629	
3.5	2.0	0.0	247,500	72,893	
1.0	3.0	0.0	180,000	52,863	
4.0	2.5	0.0	292,500	85,381	
4.0	3.0	0.0	315,000	84,722	
5.0	3.5	0.0	382,500	102,082	
6.5	5.5	0.0	540,000	144,115	

Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry
Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory
6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0038	292,077
5.0	8.0	0.0	5,490	5,750	3,830,906	179,558	0.00582	344,690
2.0	5.0	0.5	6,830	6,330	3,748,048	205,573	0.00658	404,122
12.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957
13.0	14.0	1.0	6,200	6,330	4,123,002	215,427	0.00627	400,825
6.0	7.5	2.0	7,260	8,060	3,926,643	234,903	0.00717	446,824
7.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823	457,007
1.0	1.0	0.5	5,160	5,840	3,657,238	163,008	0.0050	359,701
1.0	1.0	0.5	5,320	6,180	3,657,238	175,383	0.0058	234,640
1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043	255,554
0.5	1.0	0.0	5,130	4,980	3,626,643	152,138	0.0050	238,580
1.0	1.0	0.0	4,540	5,630	3,635,524	154,179	0.0051	278,759
1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,800
4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513
9.0	10.0	0.0	5,670	5,760	3,937,478	190,484	0.0088	405,135
10.0	10.0	1.0	7,100	5,600	3,998,668	211,765	0.0064	410,021
2.0	10.0	1.0	6,290	6,630	3,956,572	207,778	0.0065	462,261
4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297
8.0	3.0	1.5	4,740	5,960	3,860,524	166,296	0.0052	298,348
1.5	1.0	0.5	5,490	5,420	3,666,119	188,789	0.0055	250,418
1.0	1.0	0.5	4,650	4,160	3,657,238	134,359	0.0044	207,251
0.5	0.5	0.5	4,590	4,390	3,639,476	136,286	0.0045	189,149
1.0	1.0	0.0	4,330	2,340	3,635,624	101,573	0.0034	188,954
1.5	1.5	0.0	4,510	4,270	3,653,289	133,755	0.0044	218,478
1.0	1.0	0.0	4,880	5,380	3,635,524	155,543	0.0051	257,625
2.0	2.0	0.0	6,060	5,570	3,671,048	177,832	0.0058	321,997

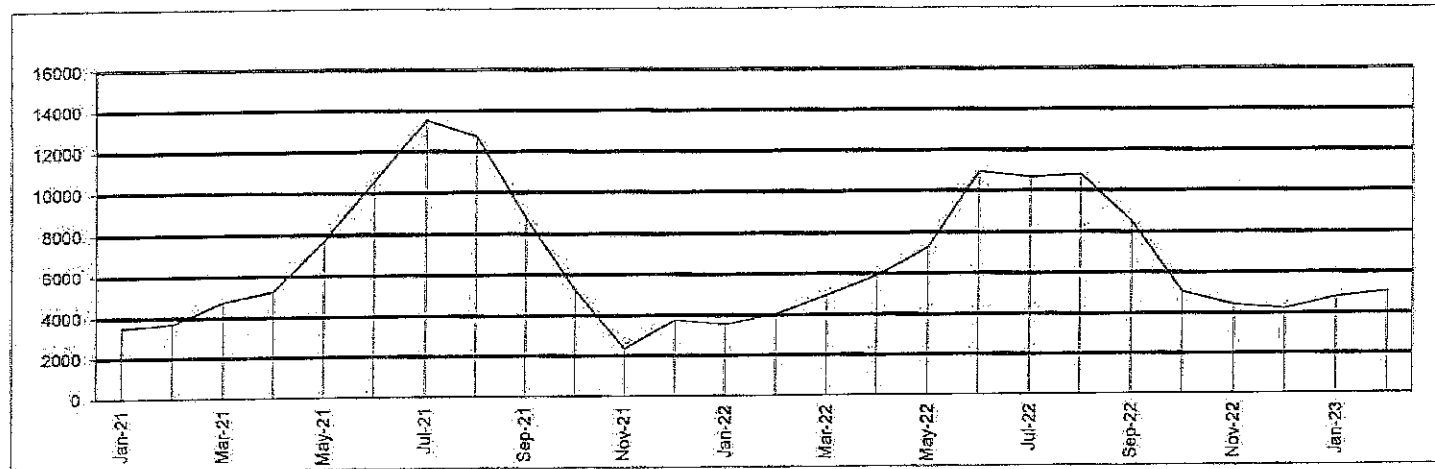
Accepted Septage	
Loads	Gallons
83	205,500
26	69,500
32	70,000
22	52,000
48	128,500
63	151,500
117	289,000
66	163,000
62	159,500
34	80,000
37	83,000
27	62,000
13	27,000
32	68,000
23	48,000
52	124,500
37	85,000
42	93,500
33	68,500
168	300,000
76	168,000
33	71,000
38	89,500
33	71,500
35	74,500
38	87,500



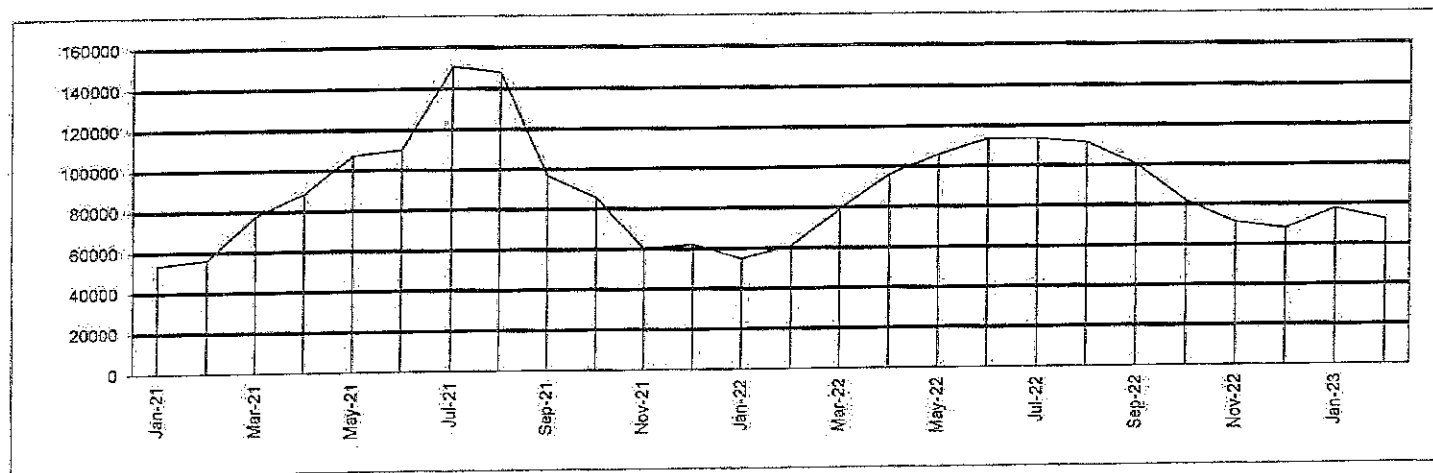
Electric Cost Kilowatts Used

Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130
Jul-21	13533	150,740
Aug-21	12737	147,810
Sep-21	8751	96,600
Oct-21	5233	85,530
Nov-21	2348	60,370
Dec-21	3776	62,100
Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160
May-22	7292	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470
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

Electric Cost



Kilowatts Used





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

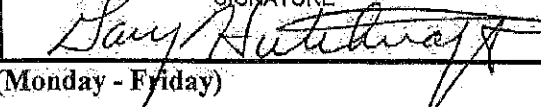
NAME OF FACILITY							LOCATION ADDRESS & CITY							COUNTY/REGION			
Lake of the Ozarks Regional WWTP #1							#3 Anderson Road							Miller/SWRO			
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY									
Feb-23		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied									
INFLUENT						EFFLUENT										% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L		
1	7.4			34.3	10.3	1.355	7.8			0.07	12.4		7.0				
2	7.8				8.2	1.405	8.2				12.1		8.2				
3	7.5	215	274		5.8	1.435	8.0	3.1	3.6		12.4		4.6	98.6	98.7		
4	7.0				8.9	1.375	7.4				12.1		6.4				
5	7.0				10.7	1.423	7.4				11.8		7.5				
6	7.1				9.1	1.312	8.1				11.6		8.8				
7	6.9			40.2	11.6	1.276	7.4			0.08	11.1		9.8				
8	7.5				12.3	1.385	8.0				11.1		10.8				
9	7.7				11.1	1.852	8.0				11.1		10.4				
10	7.6	320	408		11.4	1.639	8.0	2.3	2.3		11.2		11.6	99.3	99.4		
11	7.8				7.6	1.516	7.9				12.1		6.0				
12	7.8				7.7	1.453	7.9				11.1		6.1				
13	7.4				9.5	1.313	8.0				11.1		9.2				
14	7.3				12.7	1.365	8.0				11.1		12.5				
15	6.9			38.7	11.1	1.673	7.5			0.12	10.8		10.1				
16	7.7				10.8	1.603	8.0				11.1		10.2				
17	7.7	190	162		9.1	1.479	8.1	3.0	2.0		12.1		7.8	98.4	98.8		
18	7.3				10.7	1.552	7.7				11.6		8.4				
19	7.4				10.4	1.554	7.5				11.3		9.0				
20	6.9				10.7	1.434	7.5				11.1		9.2				
21	6.9				11.2	1.390	7.5				10.8		9.4				
22	7.3			22.1	14.2	1.298	7.9			0.02	10.4		13.1				
23	7.8				9.8	2.370	8.1				11.1		10.8				
24	7.7	240	394		8.8	1.607	8.1	4.4	2.8		11.2		7.5	98.2	99.3		
25	7.8				11.5	1.503	8.0				11.2		10.0				
26	7.8				13.4	1.541	8.1				11.1		11.6				
27	7.8				14.8	1.548	8.2				11.1		14.5				
28	7.5				13.1	1.543	8.5				11.1		13.5				
Total						42.499											
Avg		241	310	33.8	10.6	1.607		3.2	2.7	0.07	11.4	0.0	9.4	98.6	99.0		
Min	6.9	190	162	22.1	5.8	1.276	7.4	2.3	2.0	0.02	10.4	0.0	4.6	98.2	98.7		
Max	7.8	320	408	40.2	14.8	2.370	8.5	4.4	3.6	0.12	12.4	0.0	14.5	99.3	99.4		

MONTHLY EFF MONITORING				QUARTERLY EFF MONITORING				MONTHLY INF MONITORING		
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium mg/L	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L
1										
2										
3										
4										
5										
6										
7	3.0	1.1	1.8					5.9	42.6	3.7
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
Total	3.0	1.1	1.8					5.9	42.6	3.7
Avg	3.0	1.1	1.8					5.9	42.6	3.7
Min	3.0	1.1	1.8					5.9	42.6	3.7
Max	3.0	1.1	1.8					5.9	42.6	3.7

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

DATE Feb-23	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside * Ambient Temp ° F	*RAIN Inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		6.2	4,980	700	6.8	7.2	4,900	680	7.3	21	0	7:30
2		7.1	4,740	700	7.7	6.1	4,810	800	7.9	24	0	7:30
3		8.3	4,730	670	7.1	6.3	5,130	810	7.4	22	0	7:30
4		7.7	4,580	540	6.5	7.0	4,550	600	6.8	34	0	7:30
5		6.3	5,080	610	7.9	6.1	4,910	700	8.2	38	0	7:30
6		6.2	4,740	650	8.3	5.1	5,050	680	8.7	34	0	7:30
7		4.6	4,890	700	9.8	3.5	4,580	460	10.5	46	0	7:30
8		4.3	5,100	650	10.7	3.4	4,630	510	11.2	46	0	7:30
9		3.1	5,250	590	11.6	2.1	4,650	590	11.4	37	0	7:30
10		5.1	5,060	640	10.6	4.5	4,690	640	10.9	34	0	7:30
11		5.1	5,300	700	9.2	5.1	4,540	660	9.1	25	0	7:30
12		5.1	5,510	780	8.4	5.1	4,670	530	9.2	28	0	7:30
13		5.2	5,320	690	9.4	4.1	4,810	540	10.0	39	0	7:30
14		4.3	5,010	660	11.3	3.2	5,410	730	11.7	49	0.25	7:30
15		2.4	4,760	610	10.1	1.5	5,450	760	10.5	44	0.30	7:30
16		3.1	5,220	610	10.8	2.2	5,150	710	11.2	41	0.40	7:30
17		5.1	5,070	670	9.0	5.1	5,050	650	10.1	21	0	7:30
18		4.8	5,070	710	8.7	5.1	5,000	710	8.8	28	0	7:30
19		4.5	5,120	720	9.2	4.5	4,920	730	9.4	37	0	7:30
20		4.7	5,390	730	9.6	3.8	5,350	740	9.8	34	0	7:30
21		4.2	4,680	700	10.0	3.7	5,530	790	10.3	40	0	7:30
22		3.4	6,010	560	13.3	4.1	4,970	610	13.4	61	0	7:30
23		1.4	4,360	600	11.2	3.1	5,760	700	12.1	40	1.2	7:30
24		5.1	5,740	650	9.6	4.2	5,320	670	10.7	26	0	7:30
25		4.2	5,950	740	11.4	5.1	5,170	560	11	40	0	7:30
26		3.1	6,260	790	12.1	4.4	4,810	540	11.9	48	0	7:30
27		1.2	6,690	740	12.1	2.1	4,900	400	13.3	56	0.50	7:30
28		1.4	6,060	730	13.2	2.4	5,670	520	12.9	40	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 3/8/2023
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 3/8/2023

*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	
2/1/23	2/28/23
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	2.370	1.507		Mgal/d
Mon. Location.: End of Pipe	*****	*****	*****		Daily Max.: Monitoring Required	Monthly Avg.: Monitoring Required		
Sample Type: Total Measured								
Frequency: Daily								
BOD, 5-day, 20 deg. C	*****	4.4	3.2	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	*****	Weekly Avg.: 45	Monthly Avg.: 30		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Weekly								
Total Suspended Solids (TSS)	*****	3.6	2.7	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	*****	Weekly Avg.: 45	Monthly Avg.: 30		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Weekly								
Phosphorus, total (as P)	3.0	*****	3.0	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.: Monitoring Required	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, Kjeldahl, total (as N)	1.1	*****	1.1	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.: Monitoring Required	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrite plus nitrate total (as N)	1.8	*****	1.8	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.: Monitoring Required	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, ammonia total (as N)	0.12	*****	0.07	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.: 10.1	*****	Monthly Avg.: 2.7		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Weekly								

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

pH	7.4	*****	8.1	SU	*****	*****	*****
Mon. Location: End of Pipe	Minimum: 6.0	*****	Maximum: 9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	98.2	%	*****	*****	*****
Mon. Location: End of Pipe	*****	*****	Monthly Avg. Min.: 85		*****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	98.7	%	*****	*****	*****
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	INF1M
Monitoring Period	
2/1/23	2/28/23
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C	*****	*****	241	mg/L	*****	*****	*****
Mon. Location.: Influent	*****;*****	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							
Total Suspended Solids (TSS)	*****	*****	310	mg/L	*****	*****	*****
Mon. Location.: Influent	*****;*****	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							
Nitrogen, ammonia total (as N)	40.2	*****	33.8	mg/L	*****	*****	*****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							
Phosphorus, total (as P)	5.9	*****	5.9	mg/L	*****	*****	*****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	42.6	*****	42.6	mg/L	*****	*****	*****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							
Nitrite plus nitrate total (as N)	3.7	*****	3.7	mg/L	*****	*****	*****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite Frequency: Monthly							

Comments:

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

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

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

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

eSignature
Gary Hutchcraft

Submission Date
March 9, 2023

User Phone Number
(573)365-0455

LAKE OZAROSAGE BEACH WWTP
Operation Report

for FEBRUARY 2021
month year

LINE	ITEM	INLET/OUTLET										TREATMENT										TOTAL			
		INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1	LR-01	0.134	0.741	0.837																					
2	LR-02	0.125	0.734	0.807																					
3	LR-03	0.138	0.738	0.870																					
4	LR-04	0.141	0.784	0.925																					
5	LR-05	0.110	0.811	0.900																					
6	LR-06	0.110	0.725	0.814																					
7	LR-07	0.122	0.740	0.862																					
8	LR-08	0.135	0.738	0.891																					
9	LR-09	0.142	0.800	0.904																					
10	LR-10	0.141	0.824	0.965																					
11	LR-11	0.124	0.807	0.931																					
12	LR-12	0.125	0.780	0.905																					
13	LR-13	0.110	0.694	0.804																					
14	LR-14	0.112	0.727	0.839																					
15	LR-15	0.135	0.843	0.978																					
16	LR-16	0.162	0.891	1.023																					
17	LR-17	0.115	0.824	0.949																					
18	LR-18	0.134	0.845	0.979																					
19	LR-19	0.146	0.874	1.020																					
20	LR-20	0.127	0.866	0.992																					
21	LR-21	0.128	0.865	0.994																					
22	LR-22	0.124	0.769	0.900																					
23	LR-23	0.273	1.456	1.730																					
24	LR-24	0.166	0.816	0.982																					
25	LR-25	0.111	0.792	0.903																					
26	LR-26	0.154	0.822	0.976																					
27	LR-27	0.122	0.837	1.000																					
28	LR-28	0.125	0.815	0.940																					
TOTAL		3,828	23,448	27,268																					
MAX		0.273	1.456	1.730																					
MIN		0.110	0.694	0.804																					
AVG		0.136	0.837	0.924																					

The following abbreviations apply: LR=Line; S=Station; O=Outlet; C=Catchment; PC=Partially Clogged

Prepared by: L.R. JPL, GH

Approved by: GH

Date: 3/10/2021



Bids for UV Wiper Holders

Bidder	Budget	Price each	Purchase Amount & Total
Xylem Inc. (Wedeco)	\$10,000 for UV supplies	\$27.00 ea.	144 wipers - \$3,888.00
Vandevanter Engineering	"	\$26.93 ea.	144 wipers - \$3,877.92
UV Doctor	"	\$23.00 ea.	144 wipers - \$3,312.00

Freight is not included in any of these bids

Bids for Pulling Gear Boxes & Replacing Bolts w/Stainless on 5 Aerators at Carrousel Coupler

Bidder	Work to be Done	Bid amount
G & L Welding	Supply crane, labor & materials to remove & replace existing bolts @ aerator carousel paddle connection	No bid
Damn Steel	"	No bid
JCI Industries	"	No bid
Professional Metal Fabricators	"	(Not to exceed) \$8,569.82

Bids to Supply & Install New/Replacement Flow Meters and Sensors for the RAS, L.O., O.B. & Effluent

Bidder	Budget	Bid Amount	Equipment Brand
Evans Electric	\$25,000	No bid	
Hupp Electric	"	No bid	
Vandevanter Engineering	"	No bid	
JCI Industries	"	No bid	
Ecco Electric	"	No bid	
Aesthetix Electric	"	No bid	
Haynes Equipment	"	\$21,328.00	4 - Teledyne Isco Signature Ultrasonic flowmeter System
Enviro-line Co. Inc.	"	\$21,300.00	5 - Pulsar Greyline OCF 6.1 Ultrasonic flowmeter System
Municipal Equipment Co. Inc.	"	\$20,233.00	5 - Pulsar Greyline OCF 6.1 Ultrasonic flowmeter System

Equipment Manufacturers Warranty: Teledyne Isco meters come with a 1 year
Pulsar Greyline meters come with a 2 year

To: Board of Directors

From: Tim Geraghty, President, Alliance Water Resources, Inc.

Date: March 20, 2023

Re: Josh Duncan Introduction

I am excited to announce that Josh Duncan has joined Alliance Water Resources as a Division Manager. Josh comes to Alliance with over 25 years of water and wastewater operations experience, a bachelor's degree in Biology and a master's degree in Natural Resources.

His career includes experience as a General Manager of a Public Water Supply District in Missouri and most recently as the General Manager of American Water's Military Services Group at Fort Leonard Wood. His Missouri water and wastewater certifications include wastewater treatment (A), water treatment (C), water distribution (DSIII) and solid waste management.

In addition to Josh's extensive experience in design and operation of water and wastewater facilities, his knowledge of budgeting, bonds, project management, environmental regulations, chemistry and biology make him a great addition to our team in serving our clients.

Please join me in welcoming Josh.



2023 Regulatory Compliance Report Mark Mahler, Director of Safety & Regulatory Compliance

Alliance tracks new and proposed legislative and regulatory issues on an ongoing basis on behalf of its clients. This quarterly report identifies some of the most impactful issues at the Federal and State levels.

1st Quarter 2023, Missouri

TOTAL PHOSPHOROUS: RULE DEVELOPMENT CONTINUES.

Proposed Rule Requirement. The proposed language requires municipal and domestic wastewater treatment facilities with design flows equal to or greater than 1 MGD to meet proposed annual average TP effluent limits.

Get the Lead Out of Schools Drinking Water Act; MO SB1075

Begins in 2023-24 school year. The school district is responsible for ensuring compliance with the rule; the state provides oversight/enforcement.

Limit is < 5 ppb. (Current limit for utilities is 90% of testing sites must be below 15 ppb.)

Before July 1, 2023, the state will provide guidance and training on water filters and flushing.

Before 1/1/2024:

1. Inventory of drinking water outlets (water fountain, faucet, or tap that is used or potentially used for drinking or food preparation and ice-making and hot drink machines).
2. Remove any drinking watercoolers that the United States Environmental Protection Agency has determined are not lead-free under the federal Lead Contamination Control Act of 1988.
3. Install filters (this is the conservative route: more likely to get results below 5 but also take on the forever maintenance and cost of filters) or simply test each drinking water outlet.
 - a. Test results - For every outlet with a result above 5 ppb, with younger students as the priority, install a filter that reduces lead on the drinking water outlet tested to be < 5 ppb, maintain such filters to ensure that lead concentration levels are below one part per billion, and replace such filters at least as frequently as provided for in the manufacturer's instructions.
 - b. Within 60 days of installing filters and then annually, test for lead at least 25% of randomly selected outlets.



- c. For each outlet > 5 ppb, shut it off within 24 hours and provide bottled water if necessary to meet the needs of the students and staff.
- d. If a result is > 5 ppb, the school must contact parents and staff within 7 days.
- e. Within 30 days of a result > 5 ppb, determine the remediation steps (i.e., fixture/line replacements or filters) and post on the school's website.
- f. If the school has had a test result > 5 ppb in the last 10 years, the outlet tested must be remediated.
- g. Within two weeks of receiving test results, put the results on school's website.

Other Requirements

Submit test results to the state drinking water commission annually.

State or Federal funding may be available for rule compliance.

Schools built after January 1, 2014 (when the new lead plumbing rules went into effect) are not required to install filters.

If no lead is detected > 5 ppb, testing is required every five years (instead of annually).



Regulatory Compliance Report

Mark Mahler, Director of Safety & Regulatory Compliance

Alliance tracks new and proposed legislative and regulatory issues on an ongoing basis on behalf of its clients. This quarterly report identifies some of the most impactful issues at the Federal and State levels.

1st Quarter 2023, Federal

EPA ADVISE UTILITIES ON HOW TO PREPARE FOR POTENTIAL SUPPLY CHAIN INTERRUPTIONS

In December, EPA shared information on withstanding potential supply chain interruptions. Drinking water and wastewater utilities should anticipate disruptive events and prepare now to avoid impacts to their services. EPA recommends:

1. Review EPA's resiliency guidelines which include:
 - Available federal and state resources
 - Tips for effective supplier management and communication
 - How to tap into local partnerships
 - Potential operational flexibilities
2. Contact primary chemical suppliers (discuss the impacts and timelines of known supply chain issues on deliveries).
3. Contact alternate chemical suppliers (discuss their availability if the primary supplier is unable to help).

EPA EXPECTED TO PROPOSE DRAFT MCLs FOR PFOA/PFOS ON FRIDAY, MARCH 3. We understand that EPA will propose its Maximum Contaminant Levels (MCLs) for PFOA and PFOS on Friday March 3, 2023. EPA is expected to either (1) establish the MCLs at the level of quantitation for both chemicals – anticipated to be 4 parts per trillion (ppt) or (2) establish the MCLs at a lower level but specify 4 ppt as the compliance level. We expect a 60-90-day public comment period. We also expect that EPA will include a 3-5-year compliance period from the date the MCLs become effective.

In an attempt to get ahead of EPA's announcement, your states will likely hold a series of media briefings in advance of EPA's March 3 MCL announcement. We will alert you as we learn the dates of any such State media briefings.

You should expect significant local and national media attention around these proposed MCLs in comparison to the PFOA/PFOS levels in your utility's finished drinking water.

Water Utilities may want to consider the following talking points in communications with your community's political leadership, your ratepayers, and local media:

- PFOA/PFOS levels in Americans have been dropping dramatically for the past two decades.
- We expect these body burden levels to drop even faster going forward given the unprecedented focus on these chemicals.
- EPA estimates that drinking water may account for up to 20 percent of the PFOA/PFOS which people consume.



- The MCL is a long-term exposure level – 70 years of drinking 2.5 liters of water daily with PFOA or PFOS at the MCL level.
- In addition to PFOA/PFOS, there may be hundreds of additional PFAS chemicals of concern so we will strive to ensure that any technology we adopt will also address any additional PFAS chemicals of concern.

Comprehensive efforts are underway at the federal, state, and local levels to accelerate the phase out of PFAS chemicals in products throughout our economy. Our drinking water continues to meet all State and federal regulatory requirements.

LEAD & COPPER: WHILE EPA TAKES STATE & LOCAL GOVERNMENT COMMENTS ON UPCOMING LCRI IT SIGNALS THAT THE RULE WILL BE REISSUED WITH MORE STRINGENT REQUIREMENTS.

The comment period recently closed on EPA's Lead and Copper Rule Improvements (LCRI), the rule that will replace most of the Lead and Copper Rule Revisions (LCRR) that became effective in December 2021. Priority areas for regulatory changes include: (1) proactive and equitable lead service line replacement; (2) strengthening compliance tap sampling to better identify communities most at risk of lead in drinking water; and (3) reducing the regulation's complexity. We understand that EPA intends to reissue the LCR with lower action and trigger levels and increased requirements to replace lead service lines.