OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA September 21, 2021 @ 4:00 p.m. LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL

8. ADJOURNMENT

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Dennis Newberry
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Osage Beach, Kevin Rucker
Alderman, Lake Ozark,
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: August 17, 2021	2-3
4. REPORTS	
Bill List Revenue Budget Analysis Expenditure Budget Analysis Income & Expense Summary	4-18 20 21 19
August Alliance Report of Operations	22-39
Approval of Flow Charts August 2021	
5. OLD BUSINESS	
A. Board Representative update	
6. NEW BUSINESS	
A. Sale of old Sludge truck B. DNR Finding of Compliance	40-54
7. ADDITIONAL DISCUSSION ITEMS	

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – August 17, 2021

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, August 17, 2021, at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Dennis Newberry - Absent
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee - Present
Alderman Osage Beach, Kevin Rucker - Present
Alderman Lake Ozark, Vacant seat
Public Works Director Lake Ozark, Matt Michalik - Present
Public Works Operations Manager Kevin Crooks - Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

With one correction to the Alliance Report of Operations, Administrator Van Dee motioned to approve the meeting minutes of July 20, 2021. His motion was seconded by Administrator Woods and passed unanimously.

REPORTS:

The July Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Alderman Rucker to approve the documents and pay the bills. His motion was seconded by Director Michalik and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for July was 1.883 mgd. We had 6.9 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 5.9 mg/l and TSS of 5.6 mg/l respectively for July which represents a 97.1 % or better removal.

The MLSS average for both aeration basins was 8,235 mg/l. The total dry weight sludge inventory for July totaled 448,824 pounds. There were 40 tanker loads of biosolids or 144,000 gallons land applied for July. 117 loads of septage or 289,000 gallons for July.

APPROVAL OF FLOW CHART

Motion was made by Director Michalik to approve the Flow Chart for July. His motion was seconded by Administrator Wood. Unanimous approval, motion passed.

OLD BUSINESS:

- A. <u>Board Representative Update</u>: The new sludge truck and plant operations were discussed. Mr. Hutchcraft thanked the Board for the new truck, stating that it was very nice. The possibility of selling the old sludge truck will be placed on the next Agenda for consideration.
- **B.** Alliance Water Resource Contract. Mayor Olivarri advised that the Alliance Contract extension has been signed and distributed.

NEW BUSINESS: None at this time.

ADDITIONAL DISCUSSION ITEMS:

Mayor Olivarri noted that the new operations Permit has been received from the DNR. A brief discussion ensued.

ADJOURNMENT:

With no further business to discuss, the	e meeting adjourned at 4:18 pm.
	5000 S00
Mayor, John Olivarri	City Clerk, Kathy Vance

JOINT SEWER BOARD BILL LIST SEPTEMBER 21, 2021

OPERATIN EQUIPMEN	IG FUND E NT REPLA	BILLS PAID PRIOR TO BOARD ME BILLS TO BE PAID: CEMENT FUND BILLS PAID PRIC CEMENT FUND BILLS TO BE PAI	R TO BOARD MEETING:	\$ \$ \$	13,637 55 67,259.26
***			TOTAL	\$	80,896.81
OPERATIN	IG FUND F	BILLS PAID PRIOR TO BOARD ME	ETING:		
Account	Check	Paid To:	Description:		Amount:
4175	457	Ameren MO	11673321	\$	12,259.44
4175	457	Ameren MO	98041275	\$	1,273.76
4176	458	AT&T	Aug.	\$	104.35
			(Mark 94)	\$	104.55
			TOTAL	\$	13,637.55
OPERATIN	IG FUND E	BILLS TO BE PAID:			
Account	Check	Paid To:	Description:		Amount:
4000	459	Equipment Replacement Fund	Payment into ER Fund	\$	10,134 00
4020	460	Advanced Microbial Solutions	Bacteria for #1 Digester	\$	4,000.00
4020	461	Catalyst Electric	RAS Flow Meter, Control Panel M		187.50
4020	462	Core & Main	HTH for Cleaning Clarifiers	\$	639.34
4020	463	Heartland Environmental Dist.	Ammonia Bacteria for Ditches	\$	1,520.00
4020	464	Jani King	Sept.	\$	197.15
4020	465	M/C Quickbooks	Accounting Software	\$	12.50
4020	466	Menards	Screws	\$	2.36
4020	467	USA Blue Book	Sludge Judges	\$	296.57
4140	468	The Cincinnati Insurance	2022 Mack Sludge Trk	\$	2,414.00
4150	469	Clark Tire Co	Spare Tire 2022 Sludge Trk	\$	1,645.45
4150	470	D.O.C. Lubrication	DEF & Vac Pump for Sludge Trk	\$	314.00
4020	471	O'Reilly	Oil for UV Compressor	\$	79.99
4150	471	O'Reilly	DEF for Sludge Trk	\$	12.99
4150	471	O'Reilly	Antifreeze for Sludge Trk	\$	47.96
4150 4170	472 473	Roemer's Heavy Equip	Replace Transmission Sludge Trk		7,141.50
4176	474	Alliance Water Resources, Inc.	Sept.	\$	25,720.00
4175	475	Republic Ameren MO	Sept.	\$	52.26
4175	475		11673321	\$	12,539.03
4176	476	Ameren MO	98041275	- \$	197.97
4170	4/0	AT&T	Sept.	\$	104.69
	-		TOTAL	\$	67,259.26
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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

Current Detail for Statement 09/08/2021

Total Electric Charges

\$12,539.03

Total Amount Due

\$12,539.03

AMOUNT DUE

\$12,539.03

Due Date

09/29/2021

Amount After Due Date

\$12,727.12

Previous Statement

\$12,259,44

Total Payments

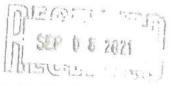
\$12,259,44

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Electric Usage History Electric Usage in Kilowatt Hours (kWh) Electric Usage Summary (kWh) So far this year you're using 7% more than last year 150000 120000 90000 60000 788,800 kWh 30000 0 SEP NOV DEC 7021 FEB MAR MAY 11181 JUL SEP 350€ 32°F 31°F 52°F 57°F 65°F 78°1 77°F E0"1 844,000 kW Average Monthly Temperature (*F) Usaga from Jan Sep for 2020 & 7024

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Amount Enclosed \$

201 PELSPO 2100 E450P24 022500<

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

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1068

20600000 0045800058302 000012539030 000012539030



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\$8000 AA A A A A A A	C24.2348. #1171 *E	*4.75 K - 33 F - 30 III

Sarvies from 08/05/2021 - 09/06/2021 (32 days)

Electric Mater Read

METER NUMBER	SERVIC FROM -		NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	08/05 09	106	32	Total kWh	Actual	68983.0000	68069 0000	914.0000	160.0000	146240.0000
11872321	08/05 - 09	108	32	Peak kW	Actual	1.4320	0.0000	1.4320	160.0000	229.1200
Usaga Summary										

al kWh	146240.0000	Summer kWh Billing Demand October Winter Base kW Base kWh Ratio Seasonal kWh (HUD)	146240.0000
k kW	229.1000		229.1000
al Billing Demand	229.1000		176.2000
ter Base Demand	176.2000		0.7690
e kWh (HUD)	0.0000		0.0000
el Billing Demand ter Base Demand	229.1000 176.2000	Billing Demand October Winter Base kW Base kWh Ratio	

Rate 3M Large General Service

			Total El	ectric Charges	\$12,539.03
Service and a contract of the court of management of the court of the				Service Amount	\$12,538.03
Renewable Energy Adjustment	146,240.00	kWh	6	\$ 0.00017000	\$24.86
Energy Efficiency Investment Charge	146,240.00	kWh	G	\$ 0.00559200	\$817.77
Fuel Adjustment Charge	146,240.00	kWh	8	\$ 0.00300000	\$450.42
Customer Charge					\$95.29
Bass Energy Charge / Hours Used	0.00	kWh	0	\$ 0.06090000	\$0.00
Energy Charge:Hours Used	66,055 00	kWh	6	\$ 0.04910000	\$3,243,30
Energy ChargerHours Used	45,820 00	kWh.	6	\$ 0.07290000	\$3,340.28
Erergy ChargerHours Used	34,365.0	kWh	6	\$ G.09690000	\$3,329.97
Winter Demand Charge	229 10	kW	6	\$ 0 00000000	\$0.00
Summer Demand Charge	229.10	kW	6	\$ 5.40000000	\$1,237,14
Seasonal Energy Charge	0.00	kWh	@	\$ 0.03560000	\$0.D0
DESCRIPTION	USAGE	TIMU		RATE	CHARGE

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\$197.97

\$197.97

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Account Number 5580005920

Customar Name ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD

LAKE DZARK, MO 85049

Current Detail for Statement 09/08/2021

Total Electric Charges

Total Amount Due

AMOUNT DUE

\$197.97

Due Date

09/29/2021

Amount After Due Date

\$200.94

Previous Statement

\$1,273.76

Total Payments

\$1,273.76

Payment Burers of Thank You.

Electric Usage History Electric Usage in Kilowatt Hours (kWh) Electric Usage Summary (kW/h) This shows how much electric energy you've used this year 12500 compared to last year 10000 7500 2020 5000 9,120 HM 2500 OCT NOV DEC JAN FEB MAR APR MAY JUR AUG 54°F 32"F 31°F 52°F 57°F 65 F 78 PF 80°F 21,230 two Average Monthly Temperature (°F) Usago Irom Jan Sep for 2020 & 2021

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Que Date September 29, 2021

Delinguent Amount After Due Date

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\$200.94

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Amount Enclosed \$

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ALLIANCE WATER RESOURCES INC PO 80X 1985 LAKE DZARK, MD 65049-1985

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FOCUSED ENERGY. For life.

Service from 08/05/2021 - 09/06/2021 (1)2 days)

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Electric Meter Read

METER NUMBER	SERVICE FROM - TO			READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	08/05 - 09/06	32	Total kWh	Actual	23226.0000	23069.0000	157,0000	10.0000	1570.0000
88041275	08/05 - 09/08	32	Peak kW	Actual	5.0570	0.0000	5.0870	10.0000	50.5760

Usage Semmary

Total kWh Winter Base kWh Summer Cur Base kWh	1570.0000 1600.0000 1570.0000	Summer kWh Current Base kWh	1570.0000 1570.0000
COMMISSI OUI DOSE KVETI	1570.0000	Seasonal kWh	0.0000

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

Thieshold Peak Demand

			Total El	actric Charges	\$197.97
			Total	Service Amount	\$197.97
Heisewanis cuelds willingthist	1,570.00	kWh	(P	\$ 0.00017000	\$0.27
Renewable Energy Adjustment			@	\$ 0.00581100	\$9.12
Energy Efficiency Investment Charge	1.570.00	kWh			\$4.84
Fuel Adjustment Charge	1,670.00	kWh	<u>e</u>	\$ 0.00308000	\$19.99
Customer Cherge					
Seasonal Energy Charge	0.00	kWh	@	\$ 0.04490000	\$0.00
Base Energy Charge	0.00	kWh	@	\$ 0.07790000	\$0.00
0. 0	1,570 00	kWh	Ð	\$ 0.10430000	\$163.75
Summer Total Energy Charge			1000	RATE	CHARGE
DESCRIPTION	USAGE	UNIT			

Payments Since Previous Statement

DATE RECEIVED August 23, 2021

THUOMA \$1 273.76

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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 65048

Current Detail for Statement D8/09/2021 **Total Electric Charges** \$12,259.44

Total Amount Due

\$12,259.44

AMOUNT DUE

\$12,259,44

Due Date

08/30/2021

Amount After Due Date

\$12,443.33

Previous Statement

\$10.548.36

Total Payments

\$10,548.36

Payment Received, Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



78°F 76°F 64°F



DEC 54°F





JUN AUG 65*F 78°F 7706

Electric Usage Summary (kWh)

So far this year, you're using 4.8% more than last

2020

665,600 swit



Usage Irom Jan Aug for 2025 & 2021

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Amount Due

612,255,44

Due Date August 30, 2021

Delinquent Amount After Due Date

Account Number

\$12,443,33

4580005832

Amount Enclosed \$

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ALLIANCE WATER RESOURCES INC. PO 80X 1985 LAKE OZARK, MO 65049-1985

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Lassum Louis Capital Section (1960 (1970) (1970) | 08/06/12/09 (1970) (1970) Electric Meter Read USAGE DINICABLE CUSHENI Delagletta TOTAL NEW HE TER NUMBER MULTIPLIER USAGE -READING 11673321 29 Total kWh 68069 0000 E7196 0000 07.07 08/05 Actual 873.D000 160.0000 139680 0000 11873321 07/07 08/06 1.4880 28 Pack kW Actual 0.0000 1.4600 180.0000 234.86 0 Usage Summary Yotal kWh 139680.0000 Summer kWh 139680.0000 Peak kW 234.9000 Billing Demand 234,9000 Total Billing Demand 234.9000 October Winter Base kW 176.2000 Winter Base Demand 176.2000 Base kWh Ratio 0.7501 Base kWh (HUD) 0.0000 Seasonal kWh (HUD) 0.0000 Rate 3M Large General Service DESCRIPTION USAGE DMIT RATE CHARGE Seasonal Energy Charge 0.00 kWI. \$ 0.03560000 0 \$0.00 Summer Demand Charge 234.90 kW 0 \$ 5.40000000 \$1268.46 Winter Demand Charge 234.90 kW \$ 0.00000000 0 Energy Charge Hours Used 35,235.00 MWS 6 \$ 0.09690000 \$3,414.27 Energy Charge: Wours Used 46.980.00 kWh \$ 0.07290000 6 \$3,424.84 Energy Charge, Hours Used 57,465.00 kWh 6 \$ 0.04910000 \$2,821.53 Base Energy Charge : Hours Used 0.00 kWh \$ 0.06090000 6 \$0.00 Customer Charge \$95.29 Fuel Adjustment Charge 139,680.00 kWh 0 \$ 0.00308000 \$430.21 Energy Efficiency Investment Charge kWh 139,680.00 0 \$ 0 00559200 \$781.09 Renewable Energy Adjustment 139,680.00 kWh \$ 5 50017000 \$23.75 Total Service Amount \$12,259.44

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\$12,259,44

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Total Electric Charges

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FOCUSED FIXERGY FOR THE

Account Number 5580005920

Customer Name ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD

LAKE OZARK, MD 65049

Survey de tribler Stotement 08/10/2021 Total Electric Charges

\$1,273.76

Total Amount Due

\$1,273.76

AMOUNT DUE

\$1,273.76

Due Date

08/31/2021

Amount After Oue Date

\$1,292.87

Previous Statement

\$61.93

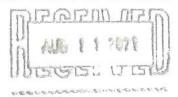
Total Payments

\$61,93

Statute Usine History! Electric Usage in Kilowatt Hours (kWh) Electric Usage Summary (kWh) This shows how much electric energy you we used this year 12500 compared to lest year 16000 7500 5000 7,520 kWh 2500 TOO MDV MAL FEB MAR APR AUG 35°F 31 F 78 F Beof 32°F 65 F 78 19,660 km Average Monthly Temperature. F. U age from Jan-Aug le . De 1 & sue

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August 31, 2021 Trouble Altry Dry day

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■ Customer Service: 1.877.476.3736

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9854 1276	07/07 - 08/05	29	Peak &W	Actual	8.6000	0.0			10 0000	66 0000
Jsaga Summ	as y									
	Total kWh				11060.0000	Summer	k\!/h			1 1060 0000
	Winter Base kWh				1600.0000		Base kWh			1600.0001
	Summer Cur Base kW	h			1600.0000	Seasona	al kWh			9460.0000
	Summer Seasonal kW	h			9460.0000					
Rate 2M :	Sm Gen Svc - 3 P	h w/D	md							
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	Summer Total Energy Cl	harge			11.060.00	kWh	@	\$ 1043DDI		\$1,153.5
	Base Energy Charge	D-			0.00	kW-	6	\$ 0.7779000		\$0.0
	Seasonal Energy Charge				0.09	k Wh	6	\$ 0.0449000	30	\$ D. D
	Customer Charge									\$ 19.9
	Fuel Adjustment Charge				11,060.00	kWh	6	\$ 0.0030800		\$34.0
	Energy Efficiency Invest		9188		11,069.00	k₩h	@	\$ 0.0058110	3011	\$64.2
	Renewable Energy Adjus	siment			11,060 00	kWh	6	\$ 0.000170		\$1.B
								Service Amou		\$1,273 7
							Str. 1 Str.	lectric Charge		\$1,273.71

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City, State Zip
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City, State Zip

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FE CREME STOREGER

Advanced Microbial Solutions, LLC

Invoice

P.O. Box 433 Carthage, TX 75633

Date 7/14/2021 Invoice #

Bill To

Joint Sewer Board Lake of the Ozarks P.O. Box 1985 Lake Ozark, MO 65049 Marie Marie Milliam Commence of the Commence o

P.O. No.

Terms

Project

Quantity

Description

2 300 gallon tote of Live Sludge Removal Bacteria

Rate

Amount

2,000.00

4.000 00

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GL Acct#:_

Signature:

Dates

ure: Day /

Total

\$4.000.00

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Thank you for your business.

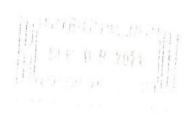
Heartland Environmental Distributors, Inc.

PO Box 8 Weston, MO 64098 573-592-4815 fax 573-592-7210

Invoice

Date	Invoice #
7/9/2021	104772

Bill To	
Joint Sewer Board	
Po Box 1985 Lake Ozark, MO 65049	
Lake Ozak, NO 03047	



		PO No	Terms	Rep	Project
			Net 30		
Quantity	Desc	cription		Rate	Amount
	gals of Ammonia (8x5gal pails) Shipping Charges Bo Higgins 7647 07092021 AMMONIA NITE FOR THE SILLAGE	FYING BACTEL LE DITCHES		38.00	1,520.00
Thank you for your bus	iness, we appreciate you!		T	otal	\$1,520.0







BOX BOX

Statement - Premium Due

001333 128 1000568398 24016 03 LAKE OZARK OSAGE BEACH JOINT SEWER TREATMENT PLANT 1000 CITY PKWY OSAGE BEACH MO 65065-5305

Amount Due: \$2,414.00 Due Date: 09/10/2021

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

Statement Prepared On: 08/19/2021

Questions regarding your insurance coverage: Naught-Naught Insurance Agency, Inc. (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

Pay Online	cinfin.com
or by Phone:	800-364-3400
	Payments may be made by checking, savings or credit card. We accept Visa®, MasterCard®, Discover®, and American Express® cards.
	Payments confirmed prior to 3 p.m. Eastern Time are applied the same business day, Monday-Friday excluding bank holidays.
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.

Make check payable to: THE CINCINNATI INSURANCE COMPANY, *Please include your account number on the check. Do not send cash. If paying multiple accounts include the remittance stub for each.

Account Number Due Date Amount Due 1000568398 09/10/2021 \$2,414.00

Late Payments: A fee of up to \$25 and/or account cancellation may result if the total amount due is not received and posted by the due date.

LAKE OZARK OSAGE BEACH JOINT SEWER TREATMENT PLANT 1000 CITY PKWY OSAGE BEACH MO 65065-5305 Please mark for change of address and complete the reverse side.

> THE CINCINNATI INSURANCE COMPANY PO BOX 145620 CINCINNATI OH 45250 -5620



Payor Name: LAKE OZARK OSAGE BEACH JOINT SEWER TREATMENT

Account Number: 1000568398

SUMMARY OF YOUR ACCOUNT:		
Previous Statement 05/10/2021		\$19,079.00
Payment Received 04/26/2021 - Thank You		-\$19,079.00
Current Policy Activity		\$2,414.00
	Amount Due for Account	\$2,414.00



CURRENT POLICY ACTIVITY:

POLICY TYPE: Target Market Policy Incl Auto POLICY NUMBER: 0484322 EXPIRATION DATE: 04/10/2024 PAY PLAN: Annual NAMED INSURED: LAKE OZARK OSAGE BEACH JOINT SEWER TREAT COVERAGE PROVIDED BY: The Cincinnati Insurance Company

Effective Date	Description	Amount Due
07/27/2021	Endorsement #1 ADDING 2022 MACK GRANITE VIN#1M2GR2GC7NM028115	\$2,414.00

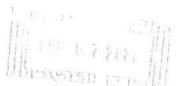
Change in premium: \$2,414.00

\$2,414.00

Clark Tire Company - (SUNR)

13993 N Hwy 5, Sunrise Beach MO 65079 Phone: 573-374-8854

WEB SITE: www.clarktireco.com Family owned since 19491



Customer	Information	Invoice	Addi	tional information	4
PO BOX 19 LAKE OZA Acct Numb	RK, MO 65049	Date: 9/04/2021 Reference: 137467 Salesperson: Joel (SUNR) Clar Route: Delivery Date: 9/04/2021	PO N Work Comi	PO Number: Work Order# W 5440313 Comment: Comment: Entered By Joel (SUNR)	
Qty	Description		FET	Unit Price	Ext. Price
1.00	F (12 Ply)	, PRIMEX TERRA TURBO	1	1,490.00	1,490 00
1.00	O-RING			9.95	9.95
1.00	MOUNT 48X3100X20			65.00	65.00
34.00	SERVICE CALL			2.00	68.00
1.00	TOLLFEE			5.00	5.00
1.00	FUEL SURCHARGE			5.00	5.00
	Non-Ta	x (Non-Profit)		Subtotal:	1,642.95
			Shop	Shop Supply Fes:	
	Terms:	NET 30 Days		Total:	2.50 \$1,645.45
			Invol	ce Balance:	\$1,645.45

Yerms:	Due Date	Due Amount	Amt Remain
	10/04/2021	\$1,845.45	\$1,845.45

Acct Balance	Current	0-29 Days	30-59 Davs	60-89 Days	90+ Days
\$1,645.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

REPLACEMENTIRE FOR NEW SCUDGETRK

GL Acct#:_

"Thank you for your business."

Involces are due and payable within 30 days (NET 30). Clark The reserves the right to require full or parual prepayment on accounts. Interest Service Charges will be applied to past due amounts at the rate of 2.0% per month (24% per annum). Payments on account will be applied first to interest Service Charges, then the remainder to principal. A \$25 fee will be billed for any payment returned for insufficient funds (NSF). Checks to be "held" will not be accepted. The undereigned agrees to pay in addition to the amount due, all costs of collection, count costs and reasonable afformey fees in the event it becomes necessary to pursue collection of this debt

W-5440313							
0/04/2021	10:50 AM	Peger	8	Entered B	y. Joel	(SUNR)	Clerk

Signature ___

19778

-18-

QTY

PART NO. AND DESCRIPTION PRICE

ROEMER'S HEAVY EQUIPMENT & TRUCK REPAIR

	P.O. Box 191 Osage Beach, Missouri 6 (573) 348-3733	5065	
	NAME	CUSTOMER SERVICE NO	DATE_
	ADDRESS	ORDER WRITTEN BY	PROMISED
	CITY, STATE, ZIP		A.M.
	- HOME PHONE BUSINESS PHON	E EXT	P.M.
	YEAR, MAKE AND MODEL	LICENSE NUMBER	ODDIMEN OUT
and the second s	SERIAL NUMBER MUTOR NUMBER	TERMS	
	DESCRIPTION OF WOR		AMOUNT
	LUBE CHANGEOIL COIL FILTER CT		
REPLACEMENT TRANSMISSION FOR OLD SLUDGE TRK GLAGORIE 4450			
Signature: Juny Rule Reaff Date: 9/8/21			
(MAY BE CONTINUED ON OTHER SIDE: TOTAL PARTS	LITERS/GALS. OF GAS @	TOTAL LABO	II.
MAY BE CONTINUED ON OTHER SIDE: TOTAL PARTS ACCESSORIES	LITERS/QTS. OF OIL @	TOTAL PARY	1
	kg/LBS OF GREASE @	ACCESSORIE	
		GAS, OIL & GREAS	
		SUBLET REPAIR	9
	I hereby authorize the above repair work to be done along with the necessary materials. You end your employees may operate above vehicle for purposes of testing, inspection, or delivery at my risk. An express mechanics lies acknowledges on above vehicle to secure the amount of regains thereto. It is also understood that you will not be	EPANYASTE DIZPOSA	The state of the s
	held responsible for loss or damage to care or articles left in care in case of fire, theft or any other cause beyond your centrol.	KAT	
	to the second se	TOTAL	
TOTAL ACCESSORIES		THANK YOU	

OPERATING FUND INCOME AND EXPENSE SUMMARY 8/31/2021

Beginning Balance	307,998.71
Income - Osage Beach Income - Lake Ozark	38,932.89 6,900.44
Income - Other Income - Waste Haulers' Fees Interest - Checking	2,580.00 1.55
Income - CD Interest Transfers From E/R Fund	188.31
Transfers to E/R Fund Expenses	(10,134.00) (41,174.11)
Ending Fund Balance	305,293.79
Central Bank - NOW Acct.	85,447.32
CD First Bank of the Lake, 11/20/21 #101318432 CD First Bank of the Lake, 7/22/22 #101318433	106,915.65 112,930.82
Outstanding Checks:	305,293.79

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 8/31/2021

Beginning Balance	407,506.40
Interest - Checking Income - CD Interest Transfers to E/R Fund Income - Miscellaneous Expenses	7.27 809.85 10,134.00
Ending Fund Balance	418,457.52
First Bank of the Lake - Money Mkt. CD First Bank of the Lake, 7/30/21 #101318430 CD First Bank of the Lake, 11/07/21 #101318434	39,110.16 109,347.36 270,000.00
Outstanding Checks:	418,457.52

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

8/31/2021

Account Number	Account Name	2019 Actual	2020 Actual	2021 Budget	2021 Actual as of	2021 August	Percent YTD
					8/31/2021	Revenue	
3020	Osage Beach	475,091.53	475,836.10	473,000.00	309,560.22	38,932.89	65%
3010	Lake Ozark	74,908.46	74,163.90	77,000.00	57,106.44	6,900.44	74%
3030	Misc.	0.00	4,500.00	0.00	0.00	0 00	0%
3100	Interest	4,286.79	4,019.49	2,000.00	2,263.78	189.86	113%
3060	Waste Haulers' Fee	26,260.00	39,320.00	36,000.00	41,240.00	2,580.00	115%
	Total Operating Fund	580,546.78	597,839.49	588,000.00	410,170.44	48,603.19	70%
	E/R Fund Income	9,001.77	8,955.85	6,000.00	4,451.04	817.12	74%
	TOTAL INCOME	589,548.55	606,795.34	594,000.00	414,621.48	49,420.31	70%

MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 8/31/2021

Account		2019	2020	2021	2021	2021	Percent	
Number	Account Name	Actual	Actual	Budget	Actual as of	August	YTD	
					8/31/2021	Expenses		
4000	Equipment Replace Fund	41 604.00	71,604.00	121,606.00	70,938.00	10.134.00	58%	
4020	*Maintenance & Repair	104.062.97	26,299.39	36,800.00	81,207 17	1,694 73	221%	
4140	Insurance	18,761.00	19,865.00		19,079.00	0 00	99%	
4150	Vehicle Repair/Main	5,479.60	12,479.74	8,000 00	1,473,41	69.65	18%	
4170	Contract Management	299 592 00	305,580.00	314,752 00	205,760 00	25,720.00	65%	
4175	Electric	73,276.87	75,077.36	75 000.00	53,157 89	13.533.20	71%	
4176	Utilities Misc.	3,717.52	2,485.59	3,500.00	2,846 93	158.53	81%	
4190	Bank Charges	176.00	32.60		0.00	0.00	0%	
4200	Audit	2,400.00	2,648.50	2.600.00	2,600,00	0.00	100%	
4240	Capital Purchases	145 247.00	0.00		0.00	0.00	0%	
	Totals	694 316 96	516,072.18		437,062.40	51,308.11	75%	-
	**E/R Expenses	41,280 51	85,258.27	221,000.00	199,488.24	0.00	90%	
	TOTAL EXPENSES	735,597.47	601,330.45	802,958 00	636,550.64	51,308 11	79%	-
		20	20 CARRY					
	*Maintenance & Repair			"Equipment & Rep	Hacement			
	Accounting - QuickBooks	300.00		Replace Pista Grit		ne work	3,000 00	
	Auto Dialer Yrly Software Fee	500.00		Replace wooden d	oors w/fibergla	55	2,000 00	
	Regular Maintenance	15 000.00		Rebuild 3 RAS pun	nps		10 000 00	
	UV Spare Paris	10 000 00		Replace lawn mow	er		5 555 55	33
	Ducking skimmer arm Elec repair	5,000 00		Sludge Truck	u,		6 000 00	
	Rock for Road	2,000 00	6,759.00	FINAL - Parking Lot	t Lights		200 000 00	Х
	Chain-link fence repair	4,000 00						
	Sandblast & paint clarifler #2		68,400.00					
		36,800.00				-	221,000.00	

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 August 2021

Submitted by Alliance Water Resources, Inc. for the

September 2021

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		E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.0	1.8	N/A	10.0	0.13	N/A
Peak Day	2.6	2.9	8.2	< 20.0	0.21	
Percent Removal	98.9	99.5	N/A	N/A	N/A	

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg Weekly Average	30 45	30 45	6-9	126 630	1.3	10
Daily Max				N/A	10.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.575 MGD or 52% of Permitted flow with Lake Ozark contributing 15% of the total flow and Osage Beach contributing 85%. 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 73582 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 158 tanker loads of bio-solids during the month equivalent to a total of 550,800 gallons and 166,363 pounds dry weight solids.

287,893 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 585,000 gallons with a level of 7.0 feet in Tank 1 and 6.0 feet in Tank 2.

WASTEHAULERS

The plant received 66 loads of septage during the month totaling 163,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

 Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)

SAFETY

We conducted our monthly Safety Meeting on Lockout/Tagout on the 27th of August.

REGULATORY AGENCY, INSPECTION AND REPORTS

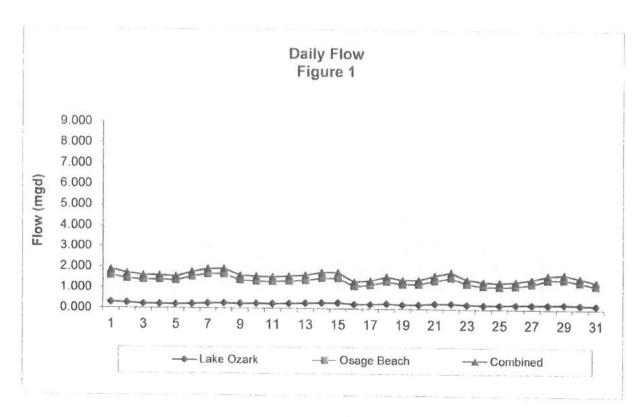
We filled out the new EDMR on the EPA MoGEM website on the 10th of September.

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF August 2021

DATE			F	LOW			F	BOD 5 M	G/L		TSS MC	G/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-Aug	0	0.296	1.592	1.888	15.7	84.3						G.
2-Aug	0	0.266	1.435	1.701	15.6	84.4						
3-Aug	0	0.213	1.385	1.598	13.3	86.7						-
4-Aug	0	0.207	1.389	1.596	13.0	87.0						
5-Aug	0	0.195	1.344	1.539	12.7	87.3	325	193	100	25.4		
6-Aug	0	0.211	1.543	1.754	12.0	88.0	323	193	190	274	276	28
7-Aug	0	0.244	1.660	1.904	12.8	87.2						
8-Aug	0	0.250	1.668	1.918	13.0	87.0						
9-Aug	0	0.228	1.370	1.598	14.3	85.7						
10-Aug	0	0.241	1.319	1.560	15.4	84.6						
11-Aug	0.25	0.232	1.303	1.535	15.1	84.9						
12-Aug	0	0.240	1.333	1.573	15.3	84.7	245	215	155	204		
13-Aug	0.75	0.258	1.357	1.615	16.0	84.0	243	213	155	304	302	23
14-Aug	0	0.281	1.474	1.755	16.0	84.0						
15-Aug	0	0.288	1.474	1.762	16.3	83.7						
16-Aug	0	0.221	1.087	1.308	16.9	83.1						
17-Aug	0	0.218	1.147	1.365	16.0	84.0						
18-Aug	0	0.254	1.321	1.575	16.1	83.9		-				
19-Aug	0	0.204	1.197	1.401	14.6	85.4		-		-		
20-Aug	0	0.214	1.198	1.412	15.2	84.8	188	188	210	126	202	
21-Aug	0.8	0.255	1.370	1.625	15.7	84.3	100	100	210	136	292	584
22-Aug	0	0.265	1.515	1.780	14.9	85.1	-					
23-Aug	0	0.220	1.219	1.439	15.3	84.7	-				-	
24-Aug	0	0.200	1.121	1.321	15.1	84.9						
25-Aug	0	0.201	1.088	1.289	15.6	84.4	-	-				
26-Aug	0	0.221	1.121	1.342	16.5	83.5	-	-		-		
27-Aug	0	0.220	1.236	1.456	15.1	84.9	438	223	168	730	212	226
28-Aug	0	0.223	1.425	1.648	13.5	86.5	150	223	100	730	312	236
29-Aug	0	0.247	1.457	1.704	14.5	85.5	-	-				
30-Aug	0	0.213	1.315	1.528	13.9	86.1						
31-Aug	0	0.185	1.138	1.323	14.0	86.0						
SUM	1.8	7.211	41.601	48.812								
AVG		0.233	1.342	1.575	15	85	299	205	181	361	296	335



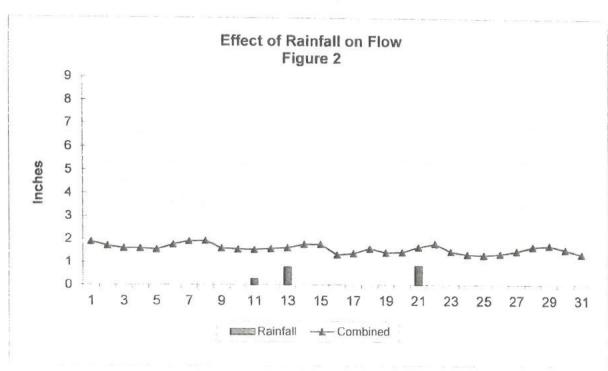
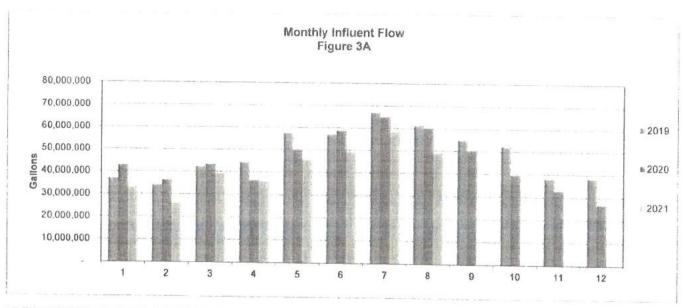
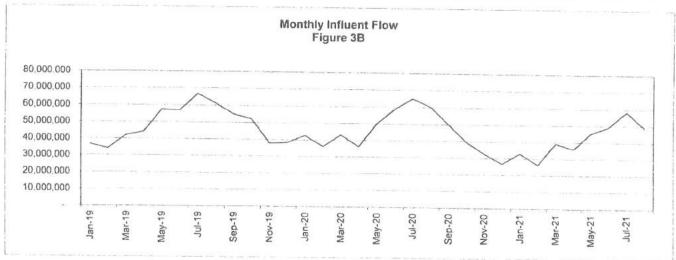
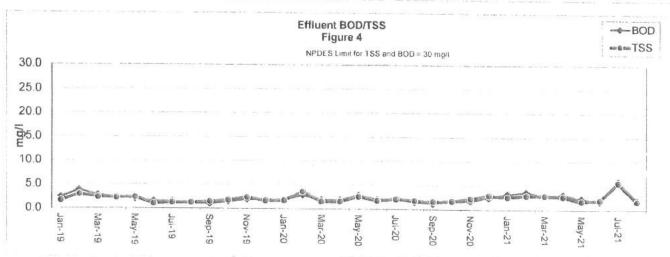


TABLE B JOINT SEWER BOARD Monthly Flows

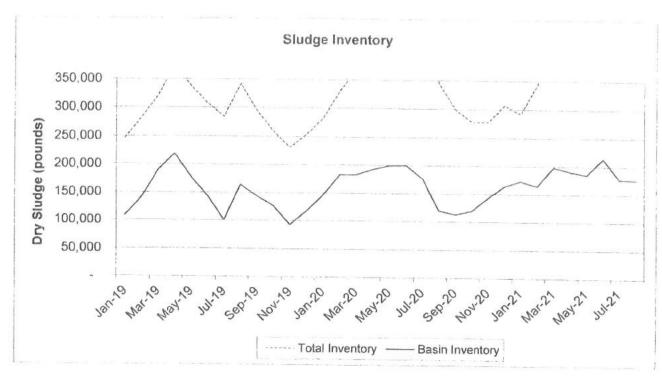
2019	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	0/6
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086.000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June	6.0	49,051,000	86%	7.864,000	14%	56,915,000	100%
July	4.8	57,666,000	86%	9,132,000	14%	66,798,000	100%
August	6.0	53,074,000	87%	8,215,000	13%	61,289,000	100%
September	3.5	47,732,000	87%	7,165,000	13%	54,897,000	
October	11.1	44,971,000	86%	7,194,000	14%	52,165,000	100%
November	3.5	33,141,000	87%	4,779,000	13%	37,920,000	100% 100%
December	1.8	33,575,000	88%	4,708,000	12%	38,283,000	100%
				1,700,000	1270	56,265,000	10070
	63.2	504,112,000	86%	78,759,000	13%	582,871,000	100%
2020	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%
February	3.6	31,279,000	86%	4,986,000	14%	36,265,000	100%
March	6.1	37,286,000	86%	5,888,000	14%	43,174,000	100%
April	5.2	31,967,000	88%	4,324,000	12%	36,291,000	100%
May	5.3	43,538,000	87%	6,443,000	13%	49,981,000	100%
June	4.8	50,936,000	87%	7,780,000	13%	58,716,000	100%
July	6.9	56,437,000	87%	8,616,000	13%	65,053,000	
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%		100%
November	4.3	27,630,000	84%	5,102,000	16%	39,621,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	32,732,000 26,698,000	100% 100%
	61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0	28,107,000	85%	4.855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695.000	85%	7,390,000	15%	49,085,000	100%
July	6.9	49.378.000	85%	9,000,000	15%	58,378,000	100%
August	1.8	41,691.000	85%	7,211,000	15%	48,902,000	100%
September							SE 35 35 35 35 36
October							
November							
December							
	40.0	283,998,000	84%	52,225,000	16%	336,223,000	100%
		200,770,000	21/0	J., 22, 000	1070	330,223,000	10070

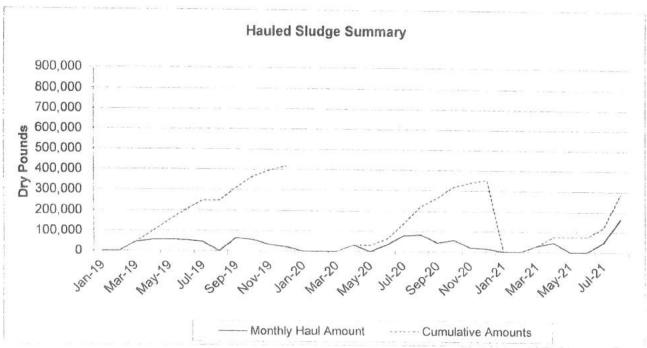






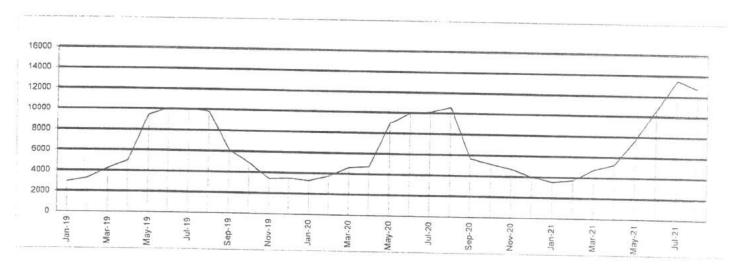
			Hauled	Sludge		Bas	in Depths	0.000.000			Bla	nket Depths		MLSS Inv	entory	Blanket and M	I SS Invantage	MICO	Tatal Da	-	-
	Losas	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1 1	ank#2 A	B#1	Basin Gallons	# Dry	Clarf #1			LSS AB #1 M		Gallons	# Dry		Total Dry Sludge Inventory	Accepte	
1-19	0		0	3 4%		5.0	3.5	0.0	382,500	108,462	1.0	1.0	0.0	4.650	4 480	3.635.524	The second second second second	0.00457		Loads	
9-751	0		G	3.4%	-	6.0	5.0	0.0	495,000	140,352	1.0	1.0	0.0	4.570	4,740	3,635,524	141,141	0.00456	245,874	10	
-19	36	133 200	43.139	3.9%	43,139	6.0	7.0	0.0	585,000	189,462	0.5	1.0	0.0	4.780	3.920	3,626,643	131,571	0.00435	281,503	31	0.00
-19	39	144.300	53,940	4 5%	97.079	5.5	7.5	0.0	585,000	218,676	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00433	321,033	9	Ep. 4 4/62
y-19	49	181,300	54,865	3.5%	151.945	8.0	5.0	0.0	595,000	177,036	3.0	1.5	1.0	5,150	5,160	3,723,357	160.077		375,923	23	2002
1-19	64	152,820	51,872	3.8%	203,817	7.0	3.0	0.0	450,000	143.381	2.0	4.0	1.5	5,610	4,810	3.771.714		0.00516	337,113	12	
-19	37	135,900	43,633	3.6%	247.450	3.0	40	0.0	315,000	100,397	2.0	3.0	0.5	6,080	5.830	3.710.524		0.00521	307,267	10	27.7
1-19	0		0	3.8%	247.450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	5,680	5,680			0.00595	284,370	35	34,0
1.19	58	214.600	62,487	3 59%	309.937	7.0	4.0	0.0		144,134	2.0	1.0	1.0	4,450		3 763,810		0.00557	341.988	29	72.5
1-19	50	185,000	54.742	3.5%	364.679	7.5	2.0	0.0		126,498	2.5	3.0	1.0	4,170	5,310	3,695,714		0.00489	294,741	22	55.0
-19	29	107,300	31,629	3 5%	396,308	3.5	3.5	0.0		92.853	3.5	5.0	0.0		4,350	3,741,119	132,916		259.414	40	97.0
-19	17	62,900	20,643	3.9%	416.951	6.0	2.0	0.0	360.000	118,148	1.0			4,980	3,850	3,750,977		0.00442	230,968	15	35.0
1-20	0		n	3 9%	1.0,00	6.0	4.0	0.0		145.357	1.0	1.0	0.0	5,090	3,940	3,635,524	135,895	0.00452	255.044	1.4	32.0
-20	0	20	0	3 9%		6.5	6.0	0.0	562,500	182,959		1.5	0.0	4,260	4,690	3,844,405	136,015	0.00448	282,382	16	34.1
-20	0		0	3.9%		5.5	7.0	0.0	562,500		3,5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330.676	23	57.0
-20	25	92,500	29.315	3.8%	29.315	6.0	7.5	0.0	607,500	182,959	2.0	5.0	1.0	5,760	5,940	3,767,762	183,825	0.00585	366,784	25	64.5
-20	0		n	3.8%	29.315	6.0		0.0	630,000	192,528	1.0	1.0	1.0	5,740	5.290	3,678,952	169,214	0.00552	361,742	39	
-20	25	92,500	31,650	4.1%	80.975	6.0	8.0 7.0	0.0		199,660	1.0	7.0	1.0	6,010	6,110	3,785,524	191,322	0.00606	390,981	35	83.0
-20	69	255,300	77,288	3.6%					585,000	200,228	6.0	7.0	0.5	7.050	7,120	3,852,620	227,647	0.00709	427,875	6	18,0
-20	76	281.200	83,286	3.6%	138,243	6.0	7.0	0.0	585,000	177,054	7.0	7.0	1.0	6,890	7,380	3,892,096	231,603	0.00714	408,659	88	
-20	38	140.600	41.627	3.5%	221,529	5.0	4.0	0.0	405,000	119.953	5.0	5.0	1.0	6.530	7,400	3,856,572	224.021	0.00597	343,974	67	158.0
-20	45	155,500			263,156	4.0	4.5	0.0	382,500	113.245	1.0	1.0	0.5	6,000	6,200	3,657,238	185,058	0.0061	299.304	45	
-29	18	66 600	55,298 19 255	4.0%	318,454	5.0	30	0.0	360,000	119,563	1.0	1.0	1.0	4,960	5.070	3.678,952	158,015	0.00515	277.578	16	32.0
-20	11	40 700	14 843	3.5%	337,709	5.0	60	0.0	495,000	143,111	1.0	0.0	0.5	4,780	4,080	3,639,476		0.00443	277.576	16	36.0
-21	-		14 843	4.4%	352.552	4.5	5.5	0.0	450,000	164,112	1.0	0.0	0.5	5,030	4,360	3,639,476	142,508	0.0047	306,620	33	
-21			C	4.495		7.0	35	0.0	472,500	173,389	6.0	0.0	1.0	3,810	3.780	3,750,000	118,689	0.0038	292.077	83	69.0
-21	77	05 400	U	4 4%		5.0	5.0	0.0	450,000	165,132	5.0	8.0	0.0	5,490	5.750	3,830,905		0.00552	344.690		205.5
	23	85 100	28.883	4 195	28,883	6.0	7.0	0.0	585,000	198 549	2.0	5.0	0.5	6,830	6.330	3,746,048		0.00658	404,122	28	59.5
-21	39	144,300	45,269	3.8%	74, 152	6.0	7.5	0.0	507,500	190,582	12.0	5.0	1.0	6.890	5,350	3,945,382		0.00512		32	70,0
-21	0		0	3.8%	74,152	6.0	7 C	0.0	585,000	185,398	13.0	14.0	1.0	6.200	6,330	4.123.002		0.00627	391,957	22	52.0
-21	Q		C	3.8%	74,152	70	8.0	0.0	675,000	213,921	6.0	7.5	2.0	7.250	8.060	3.926.643		0.00627	400,825	49	128,5
-21	40	144,000	47,378	3.9%	121,530	5.0	7.0	0.0	540,000	177,688	7.0	12.0	3.0	9.190	8,110	4.067.762		0.00717	448,824	53	151.5
-21	153	550,830	165,363	3.6%	287,893	7.0	6.0	0.0	585,000	176.693	1.0	1.0	0.5	6,160	5.840	3,657,238			457,007	117	289,00
													0.0	0,100	0,040	0,001,238	183,008	0.0060	359 701	66	163.0



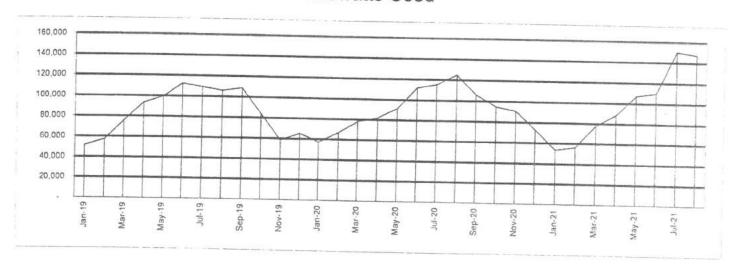


*	Electric Cost	Kilowatts Used
Jan-19	2926	51.490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330
Jun-19	10074	112,400
Jul-19	10066	109.190
Aug-19	9784	106,020
Sep-19	6115	
Oct-19	4920	83,790
Nov-19	3390	58,410
Dec-19	3482	65,660
Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78.070
Apr-20	4741	81,780
May-20	8962	91.550
Jun-20	9959	111,680
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220
Oct-20	5155	94,870
Nov-20	4734	90,890
Dec-20	4009	73,020
Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130
Jul-21	13533	150,740
Aug-21	12737	147,810

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

	NAME OF FACILITY Lake of the Ozarks Regional WWTP #1									ON ADDRE		TY		COUNTY	
		f the Oz		M					#3	Anderson				Miller/s	swro
MONTH			F	PERMIT NU			DUTFALL N		TYPE TREATMENT FACILIT Oxidation Ditch/UV/Sludge Holding-sludge						
Aug	-21	INFLU	FNT	MO-0103	3241		#00*	1		LUENT	h/UV/Slu	idge Holdin	ig-sludge	% Rer	
	1			Ammonia		2000			1	Ammonia		E. coli			
DATE	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	TEMP °C	FLOW	pH UNITS	mg/L	TSS mg/L	as N mg/i	DO mg/L	#/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.9				24.1	2.185	8.0				7.8		24.1		
2	7.9				24.8	1.947	8.0				8.0	< 20	25.7		
3	7.9			31.2	24.8	1.931	8.1			0.1	8.1		24.8		
4	7.9	-			23.7	1.963	8.1				8.2		24.0		
5	7.9	190	282		23.8	1.885	8.2	1.5	0.7		8.2		23.6	99.2	99.8
6	7.9				25.2	1.952	8.1				8.1		25.2		
7	7.9				25.0	2.269	8.0				8.0		24.9		
8	7.8				25.3	2.264	7.9				7.9		25.6		
9	8.0				26.6	1.787	8.1				7.8	< 20	26.3		
10	7.8			44.5	24.2	1.919	8.2			0.2	7.9		25.5		
11	7.9				26.7	1.841	8.0				7.7		28.1		
12	7.8	155	238		26.9	1.928	8.0	2.6	1.3		7.8		27.8	98.3	99.5
13	7.9				24.3	2.090	7.9				8.0		25.1		
14	7.5				24.5	2.126	7.9				8.0		25.0		
15	7.3				22.8	1.987	7.9				8.1	-	22.8		
16	7.6				25.3	1.641	8.0				8.0	< 20	25.6		
17	6.9				23.9	1.700	7.4				8.1		24.5		
18	6.9			27.3	24.5	1.923	7.4			0.14	8.0		25.3		
19	6.8	-			24.1	1 742	7.5				8.0		24.7	1	
20	6.8	210	584		24.7	1.775	7.4	1.9	2.9		8.0		25.5	99.1	99.5
21	6.8				24.2	2.040	7.4				8.0		25.3		
22	7.0				24.1	2.144	7.4				8.1		24.9		
23	7.3				24.3	1.770	8.0				7.8	< 20	25.7		
24	7.3				25.6	1.555	7.7				7.7		26.3		
25	7.1			15.5	24.5	1.620	7.7			0.06	7.8		25.9		
26	7.3				24.8	1.535	7.8				7.8		26.0		
27	7.1	168	236		23.2	1.795	7.9	1.9	2.3		7.7		26.4	98.9	99
28	7.5				24.3	1.870	7.9				7.8		25.0		
29	7.5				23.1	1.990	7.9				7.9		24.7		
30	7.6				25.6	1.796	8.1				7.8	< 20	26.4		
31	6.9				24.7	1.527	7.4				7.8		25.7		
Total	13400		3 112			58.497		No. of Street, or other party of the	- State					13.0	
Avg	-847	181	335	29.6	25	1.887	- KALL BA	2.0	1.8	0.13	7.9	10.0	25.4	98.9	99.
Min	6.8	155			23	1.527		1.5	0.7	0.06	7.7	< 20	22.8	98.3	99
Max	8.0	210			27	2.269		2.6	2.9	0.20	8.2	< 20	28 1	99.2	99.

	MONTHLY EFF	MONIT	ORING	QUA	RTERLY EFF	MONITORIN	VG	MONTHL	YINFI	MONITORING
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium	Selenium mg/L	Hardness mg/L	Phosphorus	TKN	Nitrite+Nitrat
1						mg/ c	mg/L	mg/L	mg/L	mg/L
2										-
3										-
4										
5										
6				***************************************						
7										
8										
9										
10			n-							
11										
12										
13										
14										
15								-		
16										
17										
18										
19										
20										
21										
22										
23										-
24										
25										
26										
27										
28										
29										
30										
31	2.7	3.0	21.3					6.3	43.6	< 0.10
al	2.7	3.0	21.3						43.6	< 0.10
1	2.7	3.0	21.3						43.6	< 0.10
	2.7	3.0	21.3						43.6	< 0.10
K	2.7	3.0	21.3		-	-			43.6	< 0.10

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

	SLUDGE	#1 Aeration Basin, O-Ditch, Etc.			#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions			
	DISP.				UOR		MIXED LIQUOR				Outside	dittolla
	LBS. DRY	* DO	** MLSS	*Settle	Y	* DO	** MLSS	*Settle	ability	* Ambient	*RAIN	Time
DATE	WEIGHT			*30 min	Temp			*30 min	Temp	Temp		
1	-	mg/l	mg/l	ml	NT-181-100-100-100-100-100-100-100-100-100	mg/l	mg/l	ml	°C	۰F	inches	
	11.100	0.7	9,090	950	25.1	0.7	8,750	940	24.9	66	0	7:30
2	11,109	0.6	8,340	930	25.5	0.6	9,250	950	25.3	72	0	7:30
3	12,100	0.9	8,750	940	24.8	0.9	9,380	960	24.6	64	0	7:30
4	13,661	0.9	8,460	940	23.9	0.6	9,180	950	23.8	65	0	7:30
5	9,608	0.9	8,310	940	23.7	0.6	8,980	950	23.3	65	0	7:30
6	8,887	1.1	8,130	940	25.2	1.0	8,380	950	24.7	70	0	7:30
7	7,026	0.7	8,150	930	24.8	0.7	8,180	940	24.3	72	0	7:30
8		0.7	8,040	930	25.4	0.6	8,390	950	25.1	78	0	7:30
9		0.8	8,370	930	26.7	0.6	8,940	940	26.2	78	0	7:30
10		0.7	8,250	930	25.0	0.7	8,410	940	25.1	78	0	7:30
11	6,665	0.9	7,520	900	27.7	0.7	8,520	930	27.2	75	0.25	7:30
12	4,684	0.8	7,410	870	27.3	0.6	8,910	840	26.9	73	0	7:30
13		1.0	7,960	900	25.2	0.9	9,160	920	25.0	72	0.75	7:30
14	8,407	1.0	8,440	940	25.1	1.0	7,320	880	24.5	70	0	7:30
15	5,705	1.0	7,780	910	23.2	1.1	7,580	910	23.3	64	0	7:30
16		1.0	7,580	880	26.0	0.8	8,860	920	25.6	64	0	7:30
17	5,855	1.2	6,960	860	24.0	1.0	8,370	940	23.9	67	0	7:30
18	15,973	1.1	7,800	900	25.2	1.0	8,420	920	25.0	70	0	7:30
19		1.2	7,700	900	24.5	1.0	8,060	920	24.5	71	0	7:30
20		1.2	7,590	900	25.2	0.9	8,100	910	25.0	72	0	7:30
21		1.0	6,950	900	25.1	0.9	7,820	920	25.1	71	0.8	7:30
22		1.1	7,560	900	24.7	1.0	7,760	920	24.7	67	0	7:30
23	11,109	1.2	7,130	900	25.6	1.0	8,260	910	25.4	72	0	7:30
24	7,986	1.8	6,940	880	26.3	1.0	7,830	910	26.1	75	0	7:30
25	9,608	2.4	7,080	880	25.7	2.4	6,540	880	25.7	74	0	7:30
26	11,349	2.2	6,990	880	25.9	1.6	7,450	890	25.8	74	0	7:30
27	7,386	2.8	5,940	770	26.2	1.8	6,590	860	25.9	73	0	7:30
28		3.6	5,380	750	24.6	3.5	5,310	750	24.7	73	0	7:30
29		1.9	5,230	700	24.7	1.9	5,230	730	24.4	72	0	7:30
30	5,885	0.9	5,740	730	25.9	0.9	5,570	720	25.8	74	0	7:30
31	3,363	1.5	6,160	790	25.4	1.6	5,840	790	25.5	70	0	7:30
COMMEN	TS:		Assessment		Acres de la companya	and the same of the same of	-	Action in the contract of	-			-

_	-	-	-	arme.	-
0	A	AR A	IC.	TIA	re.

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	John Hornback	(573)365-0455	9/10/2021
REPORT APPROVED BY (PRINT)	// SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Lang Mouthwast	(573)365-0455	9/10/2021

*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
Monitori	ng Period
8/1/21	8/31/21
NODI:	****

Parameters	Reporting Requirements				Reporting	Unit	
Flow, in conduit or thru treatment plant	****		****	F4464	2.269	1.887	Mgal
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	****	2.6	2.0	mg/L	*****		****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****	Weekly Avg.:45	Monthly Avg.;30		*****;*****	*****	
Total Suspended Solids (TSS)	****	2.9	1.8	mg/1.	****	****	****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****	Weekly Avg.:45	Monthly Avg.:30		*******	*****	77 Table 1
Escherichia coli (E. coli)	****	10.0	10.0	#/100mL	*****		****
Mon. Location.; End of Pipe Sample Type: Grab Frequency: Weekly	*****	7 Day Gco.:630	30 Day Geo, Mean:126		*****	*****	Principal Control of the Control of
Phosphorus, total (as P)	2.7	****	2.7	mg/L		22464	****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	####.#P###	
Nitrogen, Kjeldahl, total (as N)	3.0	****	3.0	mg/L	***	****	****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite	Daily Max.:Monitoring Required	******	Monthly Avg.:Monitoring Required		*****	*****.****	
Frequency: Monthly	,	1	1			ļ	
Nitrite plus nitrate total (as N)	21.3	****	21.3	mgL		****	40.00
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required	**	*****	*****	
requency: Monthly							
Nitrogen, ammonia total (as	0.20	26460	0.13	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

Comments:		1	1		J	III	J
Mon. Location.; End of Pipe Sample Type: Calculated Frequency: Monthly	*****	******	Monthly Avg. Min :85		******	******	
Suspended Solids, percent removal	*****	****	99.0	%	****	****	****
Mon. Location.: End of Pipe Sample Type: Calculated Frequency: Monthly	*****	*****	Monthly Avg. Min.:85		*****	*****	
BOD, 5-day, percent removal	****	*****	98.3	%	****	4444	****
Mon. Location.: End of Pipe Sample Type; Grab Frequency: Weekly	Minimum:6.0	******	Maximum:9.0		******	********	
pН	7.4	****	8.2	su	**6**	****	****
N) Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	Daily Max.:10.1	******	Monthly Avg.:1.3		*******	******	

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			
Monitorin	g Period			
8/1/21	8:31:21			
NODI:	+4444			

Parameters		Reporting Require	ements	Unit	Reporti	Uni	
BOD, 5-day, 20 deg. C	****	****	181	mg/I	****	*****	****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	*****,****	*****	Monthly Avg.:Monitoring Required		A****,****	*****	
Total Suspended Solids (TSS)	4444	****	335	mg/L		*****	****
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	*****	*****	Monthly Avg.:Monitoring Required	mgz	*****	*****	
Nitrogen, ammonia total (as N)	44.5	****	29.6	mg/L	24016	****	99641
Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		******	*****	
Phosphorus, total (as P)	6.3	****	6.3	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)	43.6	****	43.6	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)	<0.10	00000	1 .0.10	mg/I	****	****	****
	Daily Max.:Monitoring Required	******	Monthly Avg.:Monitoring Required		*****	*60*6.4****	

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 Hutcheraft Submission Date September 10, 2021 User Phone Number (573)365-0455

Occupation (All IE).

Approved by still

LAKE OZARK/OSAGE BEACH WATP Operation Report

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September 9, 2021

City of Lake Ozark and City of Osage Beach Attn: John Olivarri, Joint Sewer Board President P.O. Box 370 Lake Ozark, MO 65049

FINDING OF COMPLIANCE

Dear John Olivarri:

Staff from the Missouri Department of Natural Resources conducted an inspection on July 19, 2021, of the Lake of the Ozarks Wastewater Treatment Plant #1 located at #3 Anderson Road, Lake Ozark in Miller County. The entity operates under the authority of permit number MO0103241.

Compliance with Clean Water Law was evaluated. The entity was found to be **in compliance** based on the observations made at the time of the evaluation.

The enclosed report describes the findings and may provide important recommendations, to ensure continued compliance. Your cooperation in implementing those recommendations will be appreciated.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Keith Forck by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102, by phone at 573-526-4232, or by email at keith.forck@dnr.mo.gov.

Sincerely,

CENTRAL FIELD OPERATIONS

ama M. Y. Grooters

Laura M.G. Grootens Environmental Supervisor

Enclosure

c: Gary Hutchcraft, Local Manager, Alliance Water Resources



Missouri Department of Natural Resources Central Field Operations Report of Inspection Lake of the Ozarks Wastewater Treatment Plant #1 #3 Anderson Road, Lake Ozark / Miller County MO0103241 September 9, 2021

Introduction

On July 19, 2021, a routine compliance inspection of the Lake of the Ozarks Wastewater Treatment Plant #1 (WWTP), located at #3 Anderson Road, Lake Ozark, Miller County, Missouri, was conducted by the Missouri Department of Natural Resources' Central Field Operations (CFO). The purpose of this inspection was to determine compliance with Missouri State Operating Permit (MSOP) MO0103241, the Missouri Clean Water Commission Regulations, and Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection, including file review, site visits, and communications with entity representatives. Authority for this inspection is provided in Missouri Clean Water Law 644.026.1(21), Revised Statues of Missouri.

The following participants were present during the inspection:

Lake Ozark and Osage Beach Joint Sewer Board

Gary Hutchcraft Local Manager, Alliance Water Resources 573-365-0455

ghutchcraft@alliancewater.com

Missouri Department of Natural Resources, Central Field Operations

Keith Forck Environmental Engineer 573-526-4232

keith.forck@dnr.mo.gov

Entity Description and History

As part of the inspection, I reviewed the files for the Lake of the Ozarks WWTP #1, including previous inspection reports, correspondence, and the conditions of permit MO003241, for familiarization with the requirements specific to this facility. The facility is under the authority of Lake Ozark and Osage Beach Joint Sewer Board (Board). The Board does not maintain or fund the collection system. The Cities of Lake Ozark and Osage Beach fund and maintain their own collection systems independently.

MSOP MO0103241 was issued on August 1, 2021, with an expiration date of December 31, 2025. This permit sets forth effluent limitations, monitoring requirements, and permit conditions, both standard and specific, that the permittee is to follow.

The facility consists of automatic bar screens, grit removal, two oxidation ditches, three final clarifiers, ultraviolet disinfection (UV), cascade reaeration, and two aerobic sludge digesters with a design flow of 3.0 million gallons per day for the purpose of treating wastewater from the cities of Lake Ozark and Osage Beach. Each City maintains their own separate collection system. The receiving stream for this facility is a tributary to Osage River, which is located in the Lower Osage watershed (HUC 10290111).

The previous compliance inspection of the facility was on August 29, 2017. The inspection report noted the facility in non-compliance with some unsatisfactory features for failure to develop and implement a Stormwater Pollution Prevention Plan (SWPPP), and have properly certified operators. These issues were resolved by September 20, 2017.

Report of Inspection September 9, 2021 Lake of the Ozarks Regional WWTP #1 Page 2 of 5

I reviewed the Discharge Monitoring Reports for the previous five-year period. The wastewater treatment facility had no effluent violations during the five-year period.

Discussion of Inspection and Observations

The inspection was conducted during normal business hours. Prior notification of the inspection was provided to ensure timely access to the site. Upon arrival at the wastewater treatment facility, I met with Gary Hutchcraft, and outlined the purpose and scope of the inspection. Gary Hutchcraft granted permission to access the site and accompanied me throughout the inspection of the wastewater treatment facility.

The inspection started with a brief pre-meeting at the treatment facility. During the meeting, it was discussed that Gary Hutchcraft is the certified wastewater operator for the facility. We discussed the operating permit status as it expired on December 31, 2020, and the draft permit is going to be issued soon. We discussed the permit requirements in the draft permit including the standard and special conditions. Since the inspection the new permit has been issued.

We started the inspection by observing wastewater treatment facility (Figure #1). The facility is located east of the City of Lake Ozark. The facility was surrounded by a fence of adequate height and a lockable gate to dissuade unauthorized access. The facility had adequate warning signs. The access road was in good condition.

The wastewater treatment facility influent flows through an influent parshall flume (Photo #1 and 2). Each City has a separate flow meter to document flow. The other source of flow is from the septage hauler receiving station (Photo #3). The influent flow flows through the influent mechanical bar screens (Photo #4) and grit chamber (Photo #5). Gate valves (Photo #6) are used to split the flow between the two oxidation ditches. The sludge return is mixed with the return sludge (Photo #7) before flowing into the oxidation ditches.

The oxidation ditches (Photo #8) appear to be well mixed with good aeration. The mixed liquor appeared a little dark. The flow continues to the clarifier flow splitter, which appeared to be splitting the flow proportionally between the three clarifiers. The clarifiers appeared to fairly clean with the effluent appearing clear (Photo #11-14). Clarifier #1 had a gasket failure around the influent piping, which was allowing water in the clarifier to discharge without flowing over the weir (Recommendation #1). The influent stilling wells had some floating solids build-up and vegetation was observed growing on the clarifier surfaces and solids build-up (Recommendation #2).

Following the clarifier, the water flows to the effluent parshall flume (Photo #14). The effluent flow rate at the time of the inspection was approximately two million gallons per day. Then the effluent goes to the ultraviolet disinfection screen (Photo #15). The material from the screen is dried on the ultraviolet disinfection screen drying bed (Photo #16). Then the effluent flows into the ultraviolet disinfection system. The disinfection system was operating properly with a low level alarm of wiper end fail. The UV system consists of two banks in series - each with three modules. Each module has twelve bulbs. During normal operations, only one bank is necessary, but both banks were on due to a wiper end fail low level alarm. The banks in the UV system are normally alternated and the system is automatically controlled with the banks are adjusted as the system intensity demand changes. The UV units are protected from turtles and other wildlife by

Report of Inspection September 9, 2021 Lake of the Ozarks Regional WWTP #1 Page 3 of 5

an effluent screen (Photo #19). The last treatment is the cascade reaeration steps (Photo #20). These steps reaerate the effluent. The outfall was marked with a sign and no visual impact to the receiving stream due to Outfall #001 was observed.

The facility uses the two aerobic sludge digesters (Photo #21 and 22). The facility fills the first aerobic sludge digester and decant it along with transferring the solids to the second aerobic sludge digester before land application. The facility has an emergency generator on site (Photo #23). The facility has a schematic drawing in the laboratory of all the sample points (Photo #24).

We continued the inspection with reviewing the facility's documents regarding the laboratory procedures, operational monitoring records, and the operation and maintenance manuals. The records appeared thorough and were fairly well organized. The facility maintained good records, appeared to be conducting the proper equipment calibrations with current standards, and the operator certifications were current. One standard was nearing expiration (**Recommendation** #3). We discussed the calculations for the BOD and TSS percent removal should be conducted in accordance with Note 2 on Page 3 of the permit (**Recommendation** #4). We discussed the geometric mean calculation for E. coli (**Recommendation** #5). The facility conducts monthly Stormwater Pollution Prevention Plan inspections. The facility keeps maintenance records and reports no operational issues with the exception of a broken down sludge truck and waiting for a new one. Gary Hutchcraft said that they get no citizen concerns about odors or anything with the wastewater treatment plant. We briefly discussed the corrosion and soil pH concerns from the previous inspections and Gary Hutchcraft said that it is all good as recent soil tests were conducted and the corrosion is not excessive.

A brief post meeting was held in the laboratory summarizing the issues with sludge, clarifiers, ultraviolet disinfection, and paperwork

Sampling and Monitoring

I took the appropriate sampling materials on the inspection, including a copy of the Department's Standard Operating Procedures, as well as instruments for field monitoring that were capable of testing pH, temperature, conductivity, and dissolved oxygen. The field monitoring equipment had been properly calibrated and/or compared to standards in accordance with the Department's Quality Assurance/Quality Control procedures.

No sampling was conducted as the Environmental Services Program collected a composite sample on March 3, 2021. The Environmental Services Program sample analysis results are summarized in Table #3.

Table #3 – 0	Outfall #001	for Lake	of the Ozarks	WWTP #1			
Results of Sample A	Permitted Effluent Limitations						
Parameter	Sample Result	Units	Daily Maximum	Weekly Average	Monthly Average	Units	
Composite Sample; Sample # 210	03025 and 2	103026					
pH ¹	6.91	SU	*		*	SU	
Temperature ¹	8.4	°C					
Ammonia as N ²	0.02	mg/L	11.5		2.7	mg/L	
Biochemical Oxygen Demands ²	2.67	mg/L		45	30	mg/L	
Total Suspended Solids ²	<5.00	mg/L		45	30	mg/L	

Report of Inspection September 9, 2021 Lake of the Ozarks Regional WWTP #1 Page 4 of 5

Oil & Grease	<2.00	mg/L	15	10	mg/L
Total Recoverable Selenium	< 0.625	μg/L	9.1	4.0	μg/L

On-Site Water Quality Monitoring.

Abbreviations: SU (Standard pH Units)

Compliance Determination, Violations, and Required Actions

The facility was found to be in compliance with the Missouri Clean Water Law, the Missouri Clean Water Commission regulations, and MSOP MO0103241, based upon observations made during the inspection.

Recommendations

- 1. The clarifier should have the gaskets maintained so that the water is discharged over the weir.
- 2. The clarifier should be cleaned of vegetation and stilling well should be cleaned of the excessive floating sludge.
- The laboratory standards should have the expiration dates checked upon receipt and at regular intervals to ensure current.
- 4. The permit removal of BOD and TSS should be calculated in accordance with Note 2 on Page 3 of the proposed permit. The averaging of each weekly average may make a tenth or so difference in the monthly calculations.
- 5. For the sample results of <20 #/100 mL of *E. coli*, a value of 10 #/100 mL should be used in the calculation of the monthly geometric mean. A more precise method of testing may be used if lower values are desired.

Additional Comments/Conclusion

Peith B. Fork

Any questions regarding this report should be directed to Keith Forck, by mail at Central Field Operations, PO Box 176, Jefferson City, Missouri 65102; by phone at 573-522-3322; or by email at keith.forck@dnr.mo.gov.

Signatures

SUBMITTED BY:

Keith Forck, PE

Environmental Inspector Central Field Operations Maria M. Y. Grooting

Laura M.G. Grootens

Environmental Supervisor Central Field Operations

²Sample analysis conducted by Environmental Services Program.

^{*}pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

Report of Inspection September 9, 2021 Lake of the Ozarks Regional WWTP #1 Page 5 of 5

Attachment # 1 – Photographs (#1 through #24) Attachment # 2 – Aerial Map Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 1 of 8



Photograph: #1

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the influent flow

meter for the City of Osage Beach.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #2

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the influent flow

meter for the City of Lake Ozark.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #3

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking southwest at the septage

hauler receiving station.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 2 of 8



Photograph: #4

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking at the influent mechanical bar

screens.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #5

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking at the grit chamber.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #6

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking at the valves for the flow

splitter to the oxidation ditches.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 3 of 8



Photograph: #7

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking north at the sludge return piping, which mixes with the influent before

flowing into the oxidation ditches.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #8

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking north at Oxidation Ditch #1.

Oxidation Ditch #2 in the background.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #9

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking south at the clarifier flow

splitter.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 4 of 8



Photograph: #10 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking southwest at Clarifier #1.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #11 Taken By: Keith Forck

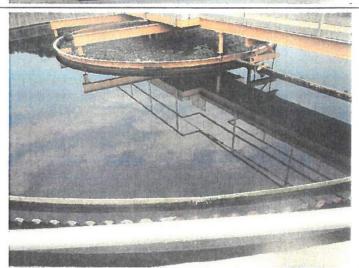
Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the effluent discharging around the influent pipe.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #12 Taken By: Keith Forck

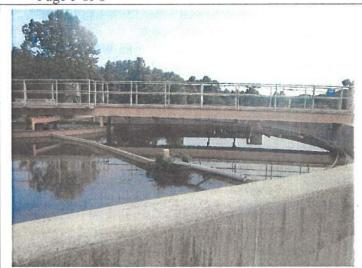
Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking northwest at Clarifier #2.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 5 of 8



Photograph: #13

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking northwest at Clarifier #3.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #14

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the effluent flow

parshall flume.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #15

Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the ultraviolet

disinfection screen.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 6 of 8



Photograph: #16 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the drying bed for the ultraviolet disinfection influent screen.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #17 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the ultraviolet

disinfection system.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #18 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Controls for the ultraviolet

disinfection system.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 7 of 8



Photograph: #19 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking down at the ultraviolet

disinfection system effluent screen.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #20 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking west at the cascade aeration steps with the outfall sign in the background.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #21 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking northwest at Aerobic Sludge

Digester #1.

Attachment #1 - Photographs Lake of the Ozarks Regional WWTP #1 Page 8 of 8



Photograph: #22 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking south at Aerobic Sludge

Digester #2.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #23 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

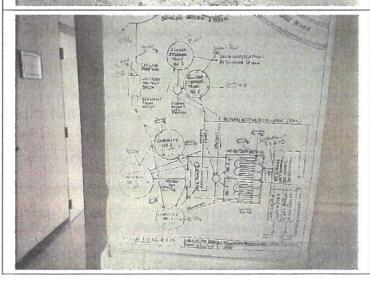
Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Looking west at the emergency

generator.

Date Taken: 07/19/21 Program: WPC Unit



Photograph: #24 Taken By: Keith Forck

Entity: Lake of the Ozarks WWTP #1

Permit: MO-0103241

Location: Lake of the Ozarks WWTP #1

Description: Schematic of the wastewater treatment

plant showing the sample locations.

Attachment #2 – Aerial Map Lake of the Ozarks WWTP #1 September 9, 2021 Page 1 of 1

Figure 1: Aerial map of Lake of the Ozarks WWTP #1 courtesy of MapIT GIS System.

