OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA

January 17, 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: November 15, 2022	2-3
4.	REPORTS –	
	Bill List	4-19
	Revenue Budget Analysis	20
	Expenditure Budget Analysis	21
	Income & Expense Summary	22
N	ovember and December 2022 Alliance Report of Operations	23-58

Approval of Flow Chart; November and December 2022

5. OLD BUSINESS

A. Board Representative Update

6. NEW BUSINESS

- **A.** Sewer Plant Flow
- B. Lake Ozark/Osage Beach Joint Wastewater Plant Inventory and ERP discussion

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL February 21, 2023 at 4:00 PM at LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – November 15th, 2022

CALL TO ORDER:

Resident Member, Mr. Gary Hamner called the meeting to order at 4:03 pm on Tuesday November 15th, 2022 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Lake Ozark, Dennis Newberry – Absent
Mayor, Osage Beach, Michael Harmison- Present
City Administrator Lake Ozark, Harrison Fry - Present
City Administrator Osage Beach, Jeana Woods - Present
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 – Absent
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Alderman Osage Beach, Kevin Rucker motioned to approve the meeting minutes from October 18th, 2022. The motion was seconded Alderman Lake Ozark, Pat Thompson and passed unanimously.

REPORTS:

- Bill List Motion to approve by Alderman Lake Ozark, Pat Thompson. The motions was seconded by City Administrator Osage Beach, Jeana Woods. and was passed unanimously.
- Revenue Budget Analysis.
- Expenditure Budget Analysis.
- Income & Expense Summary, Check Registers and Bank Statements were reviewed.
- FY2023 Operating Budget.

Alderman Lake Ozark, Pat Thompson motioned to approve the Bill List, Revenue Budget Analysis, Expenditure Budget Analysis and the Income & Expense Summary, Check Registers and Bank Statements. The motion was seconded by City Administrator Osage Beach, Jeana Woods and was unanimously approved.

Alderman Osage Beach, Kevin Rucker motion to approve the FY2023 Operating Budget. The motion was seconded by Public Works Director Lake Ozark, Matt Michalik and was unanimously approved.

Alderman Lake Ozark, Pat Thompson motioned to approve the proposed 2023 equipment replacement fund. The motion was seconded by City Administrator Lake Ozark, Harrison Fry and was unanimously approved.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for October was 1.198 mgd. We had 5.2 inches of precipitation in October measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 2.5 mg/l and 3.0 mg/l respectively for October which represents a 98.1 + % or better removal.

The MLSS average for both aeration basins was 3,994 mg/l in October. There were 42 loads of biosolids or 151,200 gallons land applied in October. We received 33 loads of septage or 71,000 gallons for October.

Other – pending getting numbers back from the vendors for the 5-Year CIP. Targeting getting numbers back by the January 2023 meeting.

Discussion to add the recommendation to raise the dump fee to .05 cents per gallon to the November Meeting.

APPROVAL OF FLOW CHART

Public Works Director Lake Ozark, Matt Michalik motioned to approve the flow chart. The motion was seconded by Alderman Lake Ozark, Pat Thompson and it was unanimously approved.

OLD BUSINESS:

A. Board Representative Update. Performing as expected.

NEW BUSINESS:

A. Alderman Lake Ozark, Pat Thompson motion to approve the haulers fee raise from \$.04 /gallon to \$.05 /gallon as of January 1st, 2023. City Administrator Osage Beach, Jeana Woods seconded the motion, and it was unanimously approved.

ADDITIONAL DISCUSSION ITEMS:

Janitorial increase discussion and review to be added the January 17th, 2022. Agenda

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:33 pm. Motion made by City Administrator Lake Ozark, Harrison Fry to adjourn and was seconded by City Administrator Osage Beach, Jeana Woods.

Approved on:		
Mayor, Dennis Newberry	Clerk, Robin Craig	

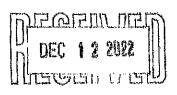
JOINT SEWER BOARD BILL LIST JANUARY 17, 2023

OPERATING	FUND BII	LLS PAID PRIOR TO BOARD LLS TO BE PAID:		\$ \$	43,531.96 44,255.23
		EMENT FUND BILLS PAID F EMENT FUND BILLS TO BE	PRIOR TO BOARD MEETING: PAID:	\$ \$	324.79
·			ATOT	L \$	88,111.98
OPERATING	EUND BI	LLS PAID PRIOR TO BOARI	D MEETING:		
Account	Check	Pald To:	Description:		Amount:
4000	1058	Equipment Replacement Fur	nd Payment into ER Fund	\$	4,584.00
4020	1060	American Sun Control	Railing for Steps to Outfall		2,819.00
4020	1061	Grainger	Replament Timers	****	235.98
4020	1062	Heartland Environmental Dis		\$	570,00
4020	1063	Majestic Franchising Inc.	December	\$	197.15
4020	1064		nics, Inc Delay Timer for Bar Screens	\$	82,46
4020	1064	M/C QuickBooks	Accounting Software	\$	30.00
4020	1066	Ray Lindsey Co.	Mechanical Seal for Pump	\$	172.48
4150	1066	O'Rellly Auto	Tire Repair Kit	\$	32.9 8
4170	1067	Alliance Water Resources, I		\$	27,590.00
4175	1068	Ameren MO	11673321		4,396,65
4175	1068	Ameren MO	98041275	\$	54.41
4176	1069	AT&T	December	\$ \$	103.47
4176	1070	Republic	December	\$	61.77
4020	1071	Capital Materials	Rock for Road	\$	2,050.35
4020	1072	Grainger	Llmit Switch, Relay Sockets	. \$	551.26_
			TO	AL \$	43,531.96
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4020	1074	Catalyst Electric	Toubleshoot Barscreen	\$	
4020	1074	Catalyst Electric	Install 480V heater, repair bar s		
4020	1075	Controlled Heating	Annual HVAC Service	\$	
4020	1076	Core & Main	Valve plt risers for headworks		
4020	1077	Majestic Franchising Inc.	January	e ey s	275.00
4020	1078		ronics, inc Sockets for new style timer del	av i	17.71
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4020	1079	Menards	39982 Cord, Thermo, misc.	į	\$ 28,68 \$ 69,01 \$ 5,99 \$ 10,19
4020	1079	Menards	39983 Sandpaper		\$ 5.99
4020	1079	Menarda	40262 Valve		\$ 10,19
4020	1079	Menards	40268 Return Valve		\$ (10.19)
4020	1079	Menards	40269 Brass Cap		\$ 6.67
4020	1080	JCI Industries, Inc.	Pista Grit Pump Repair		\$ 1,750,00
4020	1081	Smart Printing Centers	Waste Hauler Forms		\$ 311.68
4020	1082	Wallis Lubricant LLC	311 Gallons Diesel Fuel		\$ 959.75
4170	1083	Alliance Water Resources			\$ 29,466.00
4175	1084		11673321		\$ 4,144.53
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American Sun Control
PO Box 1117
Osage Beach, MO 65065
US
(579) 948-4594
info@americansuncontrol.o
om
americansuncontrol.com



BILL TO Joint Sewer Board PO Box 1986 Lake Ozark, MO 65049



INVOICE 5623

DATE 09/20/2022 TERMS Due on receipt

DUE DATE 12/09/2022

SALESMAN DJ Long PO# #3 Anderson Rd

DATE ACTIVITY AMOUNT

Ralling:Flailing 57 2,819.00

ADA Flailing/ apprex. 21 ft straight/ apprex. 36 ft down rake/ 36"

tall/ 2x2 square posts with pyramid caps/ 1 " sch 40 single
grip bar/ Color: Duli Metallic/ installed on the left side going
down, Standard installation.

THANK YOU FOR YOUR BUSINESS!

Payment is Due and Payable Upon Completion of Work. Finance charges will be charged on past due balances @18% APR. Such finance charges, if any, begin accruing and become due and payable 30 days after the payment is due.

RAILING FOR STEPS GOING DOWN TO OUTFALL

GL Acct#:

Signature

Date: 12/

TOTAL DUE

\$2,819.00

- Pay by phone: 1,866:268.8729
- Pay by mail: PO Box 88068, Chicago, IL 80680-1068
- Pay online or manage your account: AmeranMissourt.com
- Customer Service: 1,877,426,3736

FOCUSED ENERGY. For Life,

Customer Name

Account Number 4580005332

ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD, . LAKE OZARK, MO.86049

Current Beteil for Statement 12/08/2022

Total Electric Charges

\$4,396.65

Total Amount Due

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Electric Usago History

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39°F







Average Monthly Temperature (°F)







DEC B70# 4307

Electric Usage Summary (kWh)

86 for this year, you're using 4.4% 1095 than last year.





Usago from Jan-Dec for 2021 & 2022

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissourt.com.

GL Acoth:

Signature

Date:

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Page 1 of 4

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ALLIANCE WATER RESOURCES INC PO BOX 1985 LAKE OZARK, MO 85049-1985

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1008



- ₱ Pey by phone: 1.800.269,3729
- * Pay by mail: PO Box 88068, Chloago, JL 80880-1068
- Pay online or manage your account: AmerenMissouri.com

₩ Customer Service: 1.877.426,3736

FOCUSED ENERGY. For lots.

Electric Sorvice Details Service from 11/03/2022 - 12/06/2022 (33 days) Electric Motor Read SERVICE USAGE, READING CURRENT METER NUMBER MULTIPLIER USAGE FROM TO DAYS TYPE READING 11073321 11/08 - 12/08 33 Total kWh Actual 76944.0000 78591,0000 443,0000 160,0000 70880.0000 11873321 1103 1206 33 PeakkW 0.00000 180,0000 1138/2400 Usage Summary Total kWh 70880.0000 Non Summar kWh 70880,0000 Peak kW 138.2000 Billing Demand 138,2000 **Total Billing Demand** 198,2000 October Winter Base kW 164,6000 Winter Base Demand 138,2000 Base kWh Ratio 1.0000 Base kWh (HUD) 70880,0000 Seasonal kWh (HUD) 0.0000 Rate 3M Large General Service DESCRIPTION USAGE UNIT DATE CHARGE Seasonal Energy Charge 0.00 kWh 0 \$ 0.03870000 \$0.00 Summer Demand Charge 138.20 kW ő \$ D.00000000 \$0.00 Winter Demand Charge 138.20 kW 6 \$ 2,18000000 \$301.28 Energy Charge/Hours Used 0.00 kWh 0 \$ 0.10540000 \$0.00 Basa Energy Charge ! Hours Used 20,730.00 kWh 0 \$ 0.00820000 \$1,372,33 Base Energy Charpe / Hours Used 27,640.00 k₩h \$ 0.04920D00 \$1,369.80 Basa Energy Chargo / Hours Used 22,610.00 kWh \$ 0.03870000 \$871.14 Customer Charge \$104.88 Fuel Adjustment Charge 70,880.00 kWh \$ 0.00270000 \$191.38 Energy Efficiency Investment Charge 70,880.00 kWh (f) \$ 0.00326200 \$231,21 Renawable Energy Adjustment 70,880.00 kWh ⑥ \$-0.00050000 \$-35,44 Total Service Amount \$4,398,66 **Total Electric Charges** \$4,398.85

Countries Contact Ameron Missouri at 1.877.426.3796 or visit Ameron Missouri.com.

Page 2 of 4

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PHONE 880.268.3729



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AMERENMISSOURL.COM/
PAYSTATION



ONLINE CREDIT CARD



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

FOCUSED ENERGY. For life.

Account Number 5580005920 Customer Nama

ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD

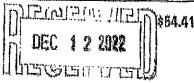
LAKE OZARK, MO 86049

Current Datail for Statement 12/08/2022

Total Electric Charges

\$54,41

Total Amount Due



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Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhead. 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#;

Signature:

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Page 1 of 4

n See next page for service dotails.

Please return this portion with your payment,



Check If you have address changes on back.

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ALLIANCE WATER RESOURCES INC PO BOX 1985 LAKE OZARK, MO 66049-1985

AMEREN MISSOURI PO BOX 88088 CHICAGO IL 60680-1068



■ Pay by phone: 1,886,268,3729

Pay by mail: PO Box 88008, Chicago, IL 60680-1068

a Pay online or manage your account: AmeronMissouri.com

■ Customer Service: 1,877,426,3786

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Electric Service Details Electric Meter Road METER NUMBER MULTIPLIER USAGE FROM-TO DAYS READING READING 68041275 11/03 - 12/08 33 Total kWh Actual 26370,0000 25334,0000 36,0000 10.0000 0d00.00B 91091276 11/03 12/06 Peak kW 33,2900 Usage Summary Non-Summer kWh 360,0000 Total kWh 360,0000 Current Base kWh 0000,088 Winter Base kWh 1000.0000 Sessonal kWh 360.0000 0.0000 Winter Cur Base kWh Rate 2M Sm Gen Svc - 3 Ph w/Dmd Throshold - Posk Demand DESCRIPTION USAGE UNIT RATE CHARGE Base Energy Charge 360.00 kWh 0 \$ 0.08480000 \$30,63 Seasonal Energy Charge 0.00 kWb \$ 0.04860000 \$0.00 Customer Charge \$21.86 Fuel Adjustment Charge 360.00 kWh \$ 0.00270000 \$0.97 Energy Efficiency Investment Charge 360.00 kWh <u>(j)</u> \$ 0.00343000 \$1,23 kWh \$-0.000000000 \$-0.18 Renewable Énergy Adjustment 360.00 Total Service Amount \$54.41 854.41 **Total Electric Charges** Payments Since Previous Statement AMOUNT DATE RECEIVED \$80.98 November 21, 2022

Questions? Contact Ameron Missouri at 1.877.426.3736 or vielt Ameron Missouri.com.

Page 2 of 4

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Name
Address
City, State, Zip
Phone Number

Amereul/lissouri.com/WaysToPay



ONLINE E-CHECK



PHONE 866,268,3729



IN PERSON FIND A PAY STATION AT AMERENMISSOURLCOM/ PAYSTATION



ONLINE CREDIT CARD



Mail Stub & Check

Remittance Address: Capital Materials PO Box 104990, Jefferson City, MO 65110 For Invoice & Ticket Information: 660-827-9965



Page 1 of 1

INVOICE

310090616

INVOICE DATE:

12/20/2022

JOB/PROJECT:

1041

JOINT SEWER BOARD PO BOX 1985 #3 ANDERSON RD LAKE OZARK, MO 65049

T PLANT

Net 30 Days

Please detach and return this portion with your payment-Please-indicate account number 1041 on check.

				Mate	rial	Other	Frel	ght	Other Frt	Fee	Tax	Total
Tloket	Date	Product	Qty	Rate	Amount	Charge	Rate	Amount	Charge	Amount	Amount	
2121076	12/16/2022	1" BASE	16.42	7.50	123,15	0.00	6.50	106,73	0.00	0.00	0,00	229.88
2121077	12/16/2022		15.90	7.50	119.25	0.00	6.60	103,35	0.00	0.00	00,0	222.60
2121080	12/16/2022		16,36	7.50	122.70	0.00	6,50	106,34	0.00	0.00	0,00	229.04
2121081	12/16/2022		18,35	7.60	122.63	0.00	6.50	106.28	0.00	0.00	0,00	. 228,91
2121084	12/16/2022		16,33	7.50	122.48	0.00	6,50	106,15	0.00	0.00	0.00	228.63
2121085	12/16/2022		15.91	7.50	119,33	0.00	6.50	103,42	0.00	0.00	0.00	222,75
2121087	12/16/2029		16,46	7,50	123.45	0.00	6,50	106,89	0.00	00,0	0.00	230.44
2121088	12/18/2023		16,29	7.50	122.18	0.00	6,50	105.69	00,0	0.00	0.00	228,07
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ROCK FOR THE ROAD

T PLANT

INVOICE

Remit To:

JCI Industries, Inc. PO Box 411114 Kansas City, MO 64141 816-525-3320



INVOICE 8244329 Involce Date Page 1 of 1 12/15/2022 ORDER NUMBER 1220793

Branch 06

JEFFERSON CITY

Bill To:

LAKE OZARK/OSAGE BEACH JOINT SEWER BOARD

PO BOX 1985

LAKE OZARK, MO 65049

Ship To:

ALLIANCE WATER RESOURCES #3 ANDURSON ROAD

LAKE OZARK, MO 65049

Customer ID: 400263

PG	Number	Term Description	Nat Due Date		
GARYHU	TCHCRAFT-17	Net 30	1/14/2023		
Ordår Data	Pick Ticket No	Primary Salesrep Name	Order Taker		
11/22/2022 11:45:14	3233482	Ben Reinkemeyer II	I-IHV&KETT		
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	1.00 0.00 EA	M REULAND 11-18-22 1.0 REULAND 7.5HP 284U 1800	EA 1,750.00 1,750.0		
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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 restacking fee up to 25%.

INVOICE

Invoice No. INV104237



Alliance Water Resources

206 South Keene Street Columbia, MO 65201

Lake Ozark/ Osage Beach Joint Utility Board

City of Osage Beach 1000 City Parkway Osage Beach, MO 65065

Document Date

Due Date

Payment Terms

January 1, 2023

January 31, 2023

Due In 30 Days

Description		Amount
Wastewater Plant operating service for January 2023		29,466.00
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And real desired by the first commence of the state of th	Total \$	29,466.00



December 16, 2022

Board of Directors
Lake Ozark/ Osage Beach Joint Wastewater Plant Board
City of Osage Beach
c/o Karri Bell
1000 City Parkway
Osage Beach, MO 65065

Dear Board of Directors:

As per the terms and conditions of the Alliance O&M Agreement dated December 12, 2018, the base fee is adjusted on January 1st each year to reflect the change in the Consumer Price Index and the other terms of the Agreement.

The Agreement specifies the use of the Department of Labor CPI – All Urban Consumer Midwest – Size Class D, not seasonally adjusted (Series CUURD200SA0). The most recent CPI data used to calculate the Alliance Fee beginning January 1, 2022 was the twelve (12) month period from November 2020 through November 2021.

Accordingly, the base fee beginning January 1, 2023 will use the 12 month period from November 2021 through November 2022. The appropriate indices and resulting contract adjustment is calculated as follows:

CPI November 2021 258.911 CPI November 2022 276.436

CPI Increase = (276.436 - 258.911) / 258.911 = 6.8%

Per the Agreement, the base fee will be adjusted upward beginning January 1, 2023 by the CPI percentage of 6.8%. The calculation of the 2023 Base Contract Fee is as follows:

Current 2022 Monthly Fee = \$27,590.00 Adjusted 2021 Monthly Fee = \$27,590.00 x 1.068 = \$ 29,466

The invoice for January 2023 will reflect the new base fee of \$29,466

On behalf of Gary Hutchcraft and Alliance Water Resources, thank you for allowing us to serve your communities.

Sincerely,

Ronald L. Smith

Regional Operations Manager

Alliance Water Resources

CC: Tony Sneed

Gary Hutchcraft

U.S. BUREAU OF LABOR STATISTICS

Databases, Tables & Calculators by Subject

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Data extracted on: December 14, 2022 (1:06:09 PM)

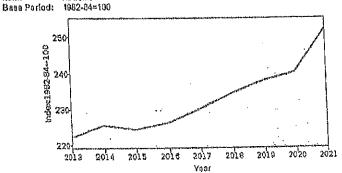
CPI for All Urban Consumers (CPI-U)

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Fay online or manage your account: AmorenMissourk.com

■ Customer Service: 1.877.426.3736

FOCUSED ENERGY. FOR LIFE

Account Number 4680005832

Customer Name Service Address

ALLIANCE WATER RESOURCES INC

3 ANDERSON RD, . LAKE OZARK, MO 66049

Current Detail for Statement 01/11/2023

Total Electric Charges

\$4,144.53

Total Amount Due

\$4,144.53

AMOUNT DUE \$4,144.53 02/02/2023 Due Date \$4,185,98 Amount After Due Date \$4,396.65 Previous Statement \$4,396,65 Total Payments Payment Received, Thruk

Electric Osage History

Electric Usage in Kilowett Hours (kWh)



30 97





Average Monthly Temperature (PF)



ĴAN DEC NQÝ 43°F 36 % 67°F

So for this year, you're using 11.7% TRIOTE than last voar. 2022 60,320 kWb 2023 67,360 kWh

Electric Usage Summary (kWh)

Usaga für Jan 2022 & 2023

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#:

Signature

Date

Page 1 of 4

n See next page for service details.

Please return this portion with your payment.

Keep this partion for your records.

MISSOUHI

Check If you have address changes on back.

Due Date **Amount Due** February 02, 2028 Account Number Delinquent Amount After Due Date Amount Enclosed \$

XOA PEASPO LODO BBEEGLE LYESOOK

ALLIANCE WATER RESOURCES INC PO BOX 1985 LAKE OZARK, MO 05049-1986

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1068







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rount: AmeronMissourt.com
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				lectric Charges	\$4,144

Questions? Contact Ameron Missouri at 1.877.426.3735 or vialt Ameron Missouri.com.

Page 2 of 4

Address Changes or Corrections

Nama___ Address City, State, Zip Phone Number

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Account Number 5550005928

Customer Name Service Address ALLJANCE WATER RESOURCES INC

3 ANDERSON RD

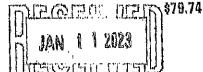
LAKE OZARK, MO 66049

Current Detail for Statement 01/11/2023

Total Electric Charges

\$79.74

Total Amount Due



AMOUNT DUE

\$79.74

Due Date

02/02/2023

Amount After Due Date

\$80.54

Previous Statement

\$54.41

Total Payments

\$54.41

Payliant Received. Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)

3000 2600 2000 1600 1000 500 0	JAN 39°F	30°F	MAR S0°F	APR 48°F	MAY GG°F	JUN 70°F	JUL JUR 7997 Juna Tyl	AUG B2°F oraliwo l°F	SEP 76°F	00T 69°F	P. A. B. A. B.	DEG 43°F	JAN 36°F
--	-------------	------	-------------	----------	-------------	-------------	--------------------------------	----------------------------	-------------	-------------	--	-------------	-------------

Electric Usage Summary (kWh)

So far this year, you're using $64\%\ 1688$ than lost year.



2028

Usago for Jan 2022 & 2023

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 AmereuMissouri.com.

GL, Acc讲:

Signature:

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Page 1 of 4

n See next page for service details.

Please return this portion with your payment.



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Due Date Amount Due February 02, 2023 Account Number Delinquent Amount After Due Date

Amount Enclosed \$

X01 PELSPO 1000 A8EEJLS D72500<

ALLIANGE WATER RESOURCES INC PO BOX 1985 LAKE OZARK, MO 66049-1985

AMEREN MISSOURI **50 BOX 88068** CHICAGO IL 60680-1068



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\$54.41

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Page 2 of 4

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December 20, 2022

Name_ Address City, Stato, Zip Phone Number.....

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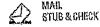
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MONTH-TO-DATE AND YEAR-TO-DATE REVENUE/BUDGET ANALYSIS

12/31/2022

Account Number	Account Name	2020 Actual	2021 Actual	2022 Budget	2022 Actual as of 12/31/2022	2022 December Revenue	Percent YTD
3020 3010	Osage Beach Lake Ozark	475,836.10 74,163.90	465,202.63 84,797.35	470,050.00 82,950.00	460,708.70 91,794.26	39,484.40 6,598.93	98% 111%
3030	Misc.	4,500.00	22,000.00	0,00	1,094.92	0.00	0%
3100 3060	Interest Waste Haulers' Fee	4,019,49 39,320.00	2,700.22 60,520.00	2,500.00 56,000.00	2,462.35 49,490.00	18.19 2,240.00	98% 88%
	Total Operating Fund	597,839.49	635,220.20	611,500.00	605,550,23	48,341.52	99%
	E/R Fund Income	8,955.85	5,508.47	5,000.00	3,588.63	205,57	72%
	TOTAL INCOME	606,795.34	640,728.67	616,500.00	609,138.86	48,547.09	99%

MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 12/31/2022

Account		2020	2021	2022	2022	2022	Percent
Number	Account Name	Actual	Actual	Budget	Actual as of	December	YTD
					12/31/2022	Expenses	
4000	Equipment Replace Fund	71,604.00	143,608.00	55,000,00	55,008.00	4,584.00	100%
4020	*Maintenance & Repair	26,299,39	104,853.81	142,000.00	60,030,11	6,708.68	42%
4140	Insurance	19,865.00	21,493.00	22,000.00	22,088.00	0,00	100%
4150	Vehicle Repair/Main	12,479.74	11,099.99	8,000.00	5,999,58	32,98	75%
4170	Contract Management	305,580.00	308,640.00	327,158.00	331,080.00	27,590.00	101%
4175	Electric	75,077,36	82,227,41	92,000.00	79,890.16	4,451,06	87%
4176	Utilities Misc.	2,485.59	3,528.17	3,750.00	3,694.18	165,24	99%
4190	Bank Charges	32.60	0.00	0.00	12.00	3.00	0%
4200	Audit	2,648,50	2,600.00	2,700.00	2,700.00	0,00	100%
4240	Capital Purchases	0.00	399,99	500,00	0.00	0.00	0%
	Totals	516,072,18	678,450,37	653,108.00	560,502.03	43,534.96	86%
	**E/R Expenses	85,258.27	202,161.70	59,500.00	11,092.76	0,00	19%
	TOTAL EXPENSES	601,330.45	880,612.07	712,608.00	571,594.79	43,534.96	80%

4020 DETAIL: Equip & Bidg. Repair/Main.		DETAIL: Equipment & Replacement		
Auto Dialer Yrly Software Fee 500	Tler 1 X	Replace garage door in headworl	3,500	Tler 1 X
Regular Maintenance 18,000	Tler 1	Replace wooden doors w/fibergla	2,000	Tier 1
UV Bulbs, Quartz Sleeves, Misc 10,000	Tier 1 X	Replace lab refrigerator/freezer	3,500	Tier 1 X
Concrete Steps to outfall 9,000	Tler 1 X	Replacement 6" valve for sludge	500	Tler 1
Rock for road 2,000	Tler 1	Replace Light Fixtures in headwo	5,000	Tler 1 X
Parking Lot seamseal & sealco: 2,500	Tier 1	*Replace aerator gear box - new	45,000	Tier 1
Take #2 Aeration Basin, grif ren 100,000	Tler 2			

59,500.00

142,000.00

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

OPERATING FUND INCOME AND EXPENSE SUMMARY 12/31/2022

Beginning Balance	339,331.22
Income - Osage Beach	39,484,40
Income - Lake Ozark Income - Other	6,598.93
Income - Waste Haulers' Fees	2,240.00
Interest - Checking	18.19
Income - CD Interest	=
Transfers From E/R Fund	H
Transfers To E/R Fund	(4,584.00)
Expenses	(38,950.96)
Ending Fund Balance	344,137.78
Central Bank - NOW Acct.	122,030.06
CD First Bank of the Lake, 11/20/23 #8432	108,096,30
CD First Bank of the Lake, 10/22/23 #8433	114,562.68
Outstanding Checks:	- (551,26)
	344,137.78

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 12/31/2022

Beginning Balance	522,151.03
Interest - Checking Income - CD Interest	205.57
Transfers From Operating Fund	4,584.00
Income - Miscellaneous	<u> </u>
Expenses	-
Ending Fund Balance	526,940.60
First Bank of the Lake - Money Mkt.	146,700.43
CD First Bank of the Lake, 10/31/23 #8430	110,240.17
CD First Bank of the Lake, 2/07/23 #8434	270,000.00
	•
Outstanding Checks:	= =00 040 00
•	526,940.60

<u>OUR</u> 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 November 2022

Submitted by Alliance Water Resources, Inc. for the January 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		coli Coliform olonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	1.5	1.3	N/A	0,0	0.06	< 4.8
Peak Day	2.4	2.1	8.5	0,0	0.09	< 4.8
Percent Removal	99.2	99.2	N/A	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 Daily Max	30 45	30 45	6-9	126 630 N/A	2.5 12.1	10 15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.055 MGD or 35% 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 49681 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

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

493,054 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 292,500 gallons with a level of 4.0 feet in Tank 1 and 2.5 feet in Tank 2.

WASTEHAULERS

The plant received 38 loads of septage during the month totaling 89,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We shutdown the UV system on the 1st of November and have since cleaned & stored the modules for the season.
- We shut down clarifier #3 on the 15th of November for the winter.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We noticed that bar screen #1 wasn't working properly on auto on the 14th of November so we called in Catalyst Electric to help troubleshoot it and they found that the older timer delay and rake limit switch was bad so we have ordered replacements.
- JCI brought the rebuilt decant lift station pump back on the 16th of November and took the pista grit pump so they could give us a repair quote for a rebuild. They also took one of the RAS pumps back that had a mechanical seal leaking that will be covered under warranty.
- We had a hauler dump a load of wet wipes on us on the 23rd of November and it caused the bar screens to sheer 3 pins and a couple hours of labor to get them back in service.

SAFETY

• We conducted our monthly Safety Meeting on Hazard Communication & Hazcom: Safety Data Sheet Sections on the 17th of November.

REGULATORY AGENCY, INSPECTION AND REPORTS

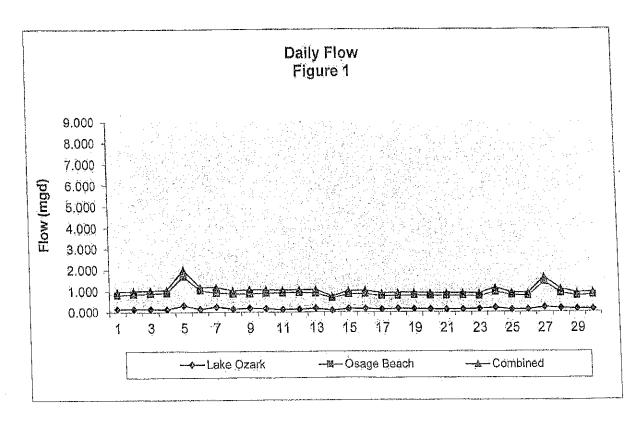
• We filled out the new EDMR on the EPA MoGEM website on the 5th of December.

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 2022

DAŢE			FL	В	DD 5 MC	}/L	,	rss MG	/L			
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% ОВ	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
l-Nov	0	0.148	0,822	0,970	15,3	84,7	Plus .					
2-Nov	0	0.151	0.861	1.012	14.9	85.1						
3-Nov	0	0.151	0.884	1.035	14.6	85.4	198	170	205	162	188	202
4-Nov	O	0.137	0.914	1.051	13.0	87.0						
5-Nov	1,8	0,306	1.703	2.009	15.2	84.8						
6-Nov	0	0,147	1.043	1.190	12.4	87.6						
7-Nov	Ö	0.252	0.933	1,185	2.1.3	78.7						
8-Nov	0	0.159	0.876	1.035	15.4	84.6						
9-Nov	Ö	0.195	0.882	1,077	18.1	81.9	155	125	165	126	146	15
10-Nov	0	0.160	0.905	1,065	15.0	85.0				<u> </u>		
11-Nov	0	0.128	0.925	1.053	12.2	87.8						
12-Nov	0		0.928	1.061	12.5	87.5						
13-Nov	0		0.901	1.072	16.0	84.0					-	
14-Nov	0		0.677	0.755	10.3	89,7				<u> </u>		
15-Nov	j	0.157	0.857	1.014	15.5	84.5	<u> </u>					1
16-Nov	0		0.872	1,034	15.7	84.3		<u></u>			<u> </u>	
17-Nov	0		.0.776	0.908		85.5			<u> </u>			
18-Nov	0		0.773	0,933		82.9	18.	3 14	8 17	8 13	4 15	8 1
19-Nov	0	7 /	0.797	0.936		85,1						
20-Nov	Ω		0.773	0.904		85,5				_	_	
21-Nov	(0.776	0.898		86,4					- 	_
22:Nov		0.125	0.786	0.91		86.3						20
23-Nov		0.149	0.754			83.5		0 15	3 20	73 1	14	8.8
24-Nov	0,		0,957			82.7						
25-Nov		0.114	0.816			87,7		-				
26-Nov		0.130	0.775					_		_	~ ii 	
27-Nov	1.											
28-Nov	1	0.181	0.91		_							
29-Nov		0 0.151	0.770			110-10-170/						
30-Nov	0	.0 0.143	0,81	8 0.96	14.9	85.						
SUM	4.5	4.739	26,905	31.644								
AVG		0.158	0.897	1:055	15	85	19	4 14	9 188	14	12 14	15 . I:



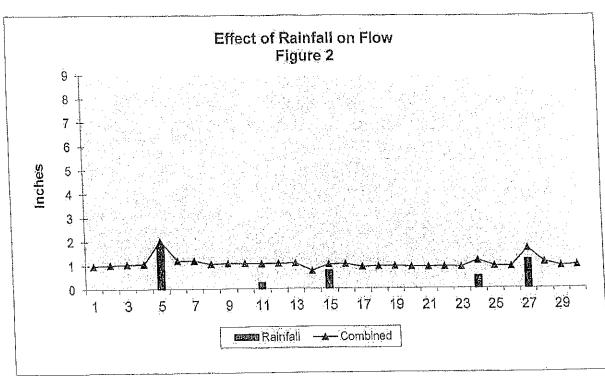
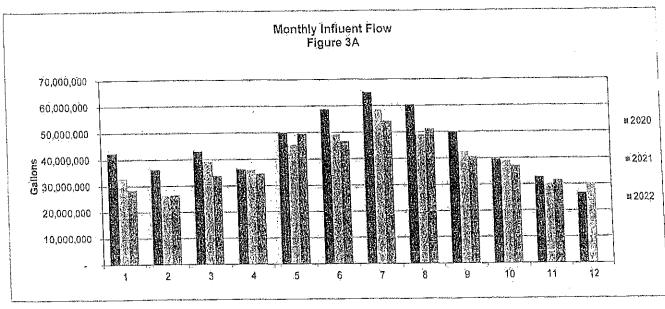
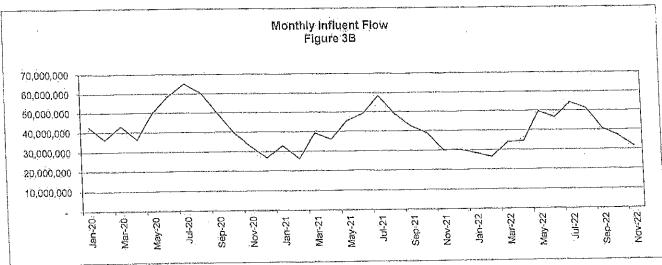
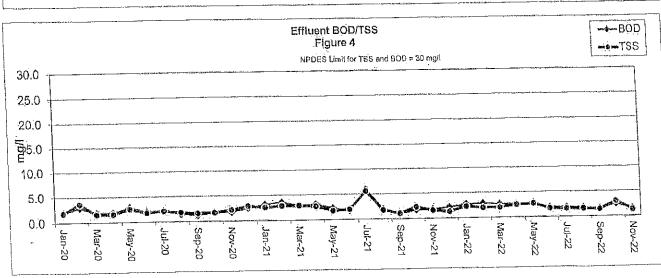


TABLE B
JOINT SEWER BOARD
Monthly Flows

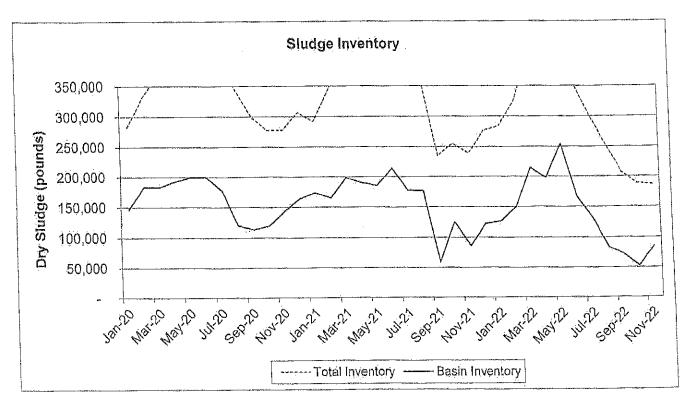
<u> 2020</u>	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	7.7	36,806,000 86%	5,780,000 14%	42,586,000 100%
February	3.6	31,279,000 86%	4,986,000 14%	36,265,000 100%
March	6.1	37,286,000 86%	5,888,000 14%	43,174,000 100%
April	5.2	31,967,000 88%	4,324,000 12%	36,291,000 100%
May	5.3	43,538,000 87%	6,443,000 13%	49,981,000 100%
June	4.8	50,936,000 87%	7,780,000 13%	58,716,000 100%
July	6.9	56,437,000 87%	8,616,000 13%	65,053,000 100%
August	2.3	52,449,000 87%	7,883,000 13%	60,332,000 100%
September	8.4	42,235,000 85%	7,636,000 15%	49,871,000 100%
October	5.4	33,173,000 84%	6,448,000 16%	39,621,000 100%
November	4.3	27,630,000 84%	5,102,000 16%	32,732,000 100%
December	1.3	22,749,000 85%	3,949,000 15%	26,698,000 100%
Decemon	1.5	2,2,147,000 GD70	5,747,000 1070	20,070,000 10070
	61.3	466,485,000 86%	74,835,000 14%	541,320,000 100%
0001	DÁÍSTE AT Ý	And Ambridge	TARRÍS (ŠÍŽIA DIR	michina a de
<u>2021</u>	RAINFALL	OSAGE BEACH	LAKE OZARK	<u>TOTAL</u> % 32,962,000 100%
January	6,0 3.0	28,107,000 85%	4,855,000 15%	
February	•	22,136,000 85%	4,048,000 15%	26,184,000 100%
March	4.0	32,848,000 84%	6,450,000 16%	39,298,000 100%
April	5.2	30,179,000 84%	5,792,000 16%	35,971,000 100%
May	5.2	37,964,000 84%	7,479,000 16%	45,443,000 100%
June	8,0	41,695,000 85%	7,390,000 15%	49,085,000 100%
July	6.9	49,378,000 85%	9,000,000 15%	58,378,000 100%
August	1.8	41,691,000 85%	7,211,000 15%	48,902,000 100%
September	3,1	36,185,000 85%	6,306,000 15%	42,491,000 100%
October	6.0	32,925,000 85%	5,987,000 15%	38,912,000 100%
November	0.8	25,192,000 83%	5,025,000 17%	30,217,000 100%
December	2.3	25,041,000 82%	5,317,000 18%	30,358,000 100%
	52.2	403,341,000 84%	74,860,000 16%	478,201,000 100%
2022	RAINFALL	OSAGE BEACH	<u>LAKE OZARK</u>	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%		51,265,000 100%
Septembe		The state of the s	no and the	40,737,000 100%
October	5.2		100 Page 100	37,131,000 100%
Novembe			· · · · · · · · · · · · · · · · · · ·	31,644,000 100%
Décembe			, .	• •
	50.8	363,733,000 84%	71,201,000 16%	434,934,000 100%

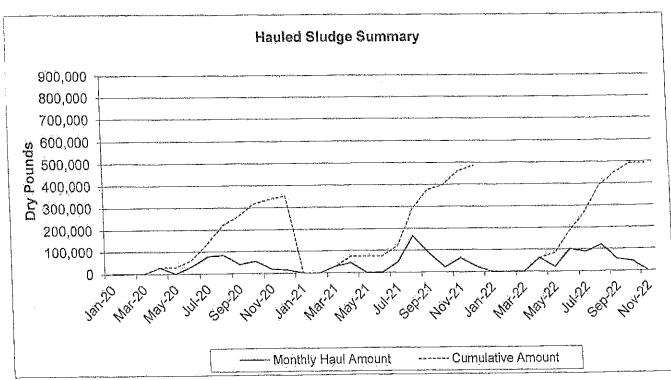






																				Leaning Coolano
														MLSS Inve	ntórv	Blanker and ML	SS Inventory	MLSS	Total Dry	Accepted Septage Loads Gallons
						- Dagie	Deplins			- June		t Decths		SS AB #1 ML			# Dry		idge Inventory	16 34,100
,			Hauled St	ludge		Bass	OBDING	u#1 Ft	asin Gallons	# Dry _	Charles -			4,260	4,690	3,644,405		0,00448	282,382	23 57,000
			# Dry %	s Solids Ani	jual Cumulative # Dry		4.0	0.0	450,000	145,357	1.0	1.5	0.0	5,190	4,390	3,697,691		0.00479	330,676	25 64,500
	Loads	Gallons	# Liij	3.9%	V	6.0		0.0	552,500	182,959	3.5	2.0	0.0	5,760	5.940	3,767,762		0.00585	366,784	39 107,000
1-20	0	-	ő	3.9%	-	6.5	6.0	0.0	562,500	182,959	2.0	5.0	1.0	5,740	5,290	3,678,952		0.00552	361,742	35 83,000
1-20	0	-	,	3.9%	-	5.5	7.0	0.0	607,500	192,528	1,0	1.0	1.0	6,010	6.110	3,785,524		0.00605	390,981	6 18,000
r-20	0		29,315	3.8%	29,315	6.0	7.5	0.0	530,000	199,660	1.0	7.0	1.0	7,050	7,120	3,852,620		0.00709	427,875	88: 208,000
r-20	25	92,500	25,010	3.8%	29,315	6.0	8.0 7.0	0.0	585,000	200,228	6.0	7,0	0,5	6,890	7,380	3 892 096	231 603	0.00714	.408,656	67 158,000
7-20	0		31,660	4.1%	60,975	6.0	7.0	0.0	585,000	177,054	7.0	7.0	1:0	6,530	7,400	3,856,572	224,021	0.00697	343,974	45 104,500
1-20	25	92,500	77,258	3.6%	138,243	6,0		0.0	405,000	119,953	6.0	6.0	1.0	6,000	6,200	3,657,238	186,058	0.0061	299,304	16 32,000
1-20	69	255,300	83,285	3.6%	221,529	5.0	4.0	0.0	382,500	113,246	1,0	1,0	0.5	4,960	5.070	3,578,952	, 4252, 44 1 -	0.00515	277,578	16 35,000
g-20	76	281,200	41,627	3,5%	263,156	4:0	4.5	0.0	360,000	119,563	1.0	1.0	1.0	4,780	4,080	3 639 476		0.00443	277,576	33 69,000
o-20	38	140,600	55,298	4.0%	318,454	5:0	3.0	0.0	495,000	143,111	1,0	0.0	0.5	5,030	4,350	3 639 476	142,508	0.0047	306,620	83 ,205,500
:5-20	45	165,500	19,255	3.5%	337,709	5.0	.6.0	0.0	450,000	164 112	1.0	0.0	0.5	3.810	3.780	3,750,000	118,689	0.0038	292,077	28 69:500
v-20	18	65,600	14,843	4.4%	352,552	4:5	5.5	0.0	472,500	173,389	8.0	0.0	1.0	5,490	5,750	3,830,906	179,55B	0.00562	344,690	32 70,000
c-20	11	40,700	t4:040	4,4%	-	7,0	3.5	0:0	450,000	165,132	5.0	8.0	0.0	6,830	6,330	3:746,048	205.573	0.00658	404,122	22 52,000
n-21	0	-	o o	4,4%	-	5.0	5.0	0,0	585,000	198,549	2.0	5.0	0,5	6,890	5,350	3,945,382	201,375	0.00612	391,957	48 128,500
b-21	٥			4.1%	28,883	6.0	7.0	0,0	607,500	190,582	12.0	5.0	130	6,200	6.330	4,123,002	215,427	0.00627	400,825	63 151,500
ır-21	23	85,100	28,883	3.8%	74,152	6.0	7.5	0.0	585,000	185,398	13.0	14,0	1.0	7,260	8,060	3,926,643	234,903	0.00717	448,824	117 289,000
or-21	39	144,300	45;269 0	3.8%	74.152	6:0	7.0		675,000	213,921	6,0	7.5	2:0		8,110	4,067,762	279,340	0.00823	457,007	56 163,000
w-21	0		Û	3.8%	74,152	7.0	8.0	0.0	540,000	177 658	7.0	12.0	3.0	9,190	5,840	3,657,238	183:008	0.0060	359,701	62 159,500
n-21	O	•	_	3.9%	121,530	5.0	7.0	0,0	585,000	176,593	1.0	1.0	0.5	6:160	6:180	3,657,238	175,383	0.0058	234,640	34 80,000
⊴l-21	40	144,000	47,378	3.6%	287,893	7.0	6.0	0:0	225,000	59,257	1,0	1.0	0.5	5 320	4,140	3,648,357	130,381	0.0043	255,554	37 83,000
ıq-21	153	550,800	166;363	3.2%	375,119	2.0	3.0	0.0	337,500	125,173	1.0	0.5	0.5	4,430	4,980	3,626,643	152,138	0,0050	238,580	27 62,000
p-21	92	331,200	87;226	3.2% 4:4%	397,817	3.5	4.0	0,0	225,000	86 442	0.5	1.0	. 0.0	5,130	5,630	3,635,524	154,179	0.0051	276,759	13 27,000
ct-21	17	61,200	22,698		461,438	3,0	2.0	0.0	292,500	122-581	1,0	1,0	0.0	4.540	5,180	3,679,929	157,136	0,0051	283,800	32 68,000
v-21	45	165,600	63,621	4.6% 5.0%	485,577	4,0	2,5	0.0	337,500	126,664	1.0	3,5	0.0	5,060	5,030	3,697,691	174,393	0.0057	324,513	23 48,000
>c-21	16	57,600	24,139			4,5	3,0	0.0	450,000	150,120	4,0	1:5	0.0	6,280	5,760	3,937,478	190 464	0:0058	405,135	52 124,500
n-22	Ð		0	4.5%		7.0	3.0	0.0	585,000	214,672	0.9	10)0	0.0	5,870	5,600	3,998,668	211.765	0.0064	410,021	37 85,000
ab-22	0	-	0	4,0%		5:0	7.0	0.0	540,000	198,255	10.0	10.0	1.0	7,100	6,630	3,856,572	207,778	0,0065	462,281	42 93,500
ar-22	0	-	O.	4.4%	62,120	7.0	5.0	0.0	697,500	254,503	2.0	10.0	1.0	6,290	6,010	3.753,952	184,247	0.0059	351,297	33 68,500
pr-22	47	169:200	62,120	4.4%	83,137	8.5	7.0	0.0		167,049	4.5	0,5	1.5	5,760	5,860	3,860,524	166,295	0,0052	298,348	168 300,000
3y-22	16	57,600	21,017	4.4%	185,189	7.0	4,0	0.0	495,000	132 051	8;0	3.0	1.5	4,740	5,420	3,666,119	186,789	0.0055	250,418	76 168,000
n-22	84	302,400	102,052	4.0%	274,150	7:0	2.5	0.0	427,500 270,000	83,629	1:5	1.0	0.5	5,490	4,160	3,657,238	134,359	0.0044	207,251	33 71,000
111-22	80	288,000	88,961	3.7%	394,576	2.0	4.01	0;0		72,893	1.0	1.0	0.5	4,650	4,390	3,639,476	136,286	0.0045	189,149	38 89,500
1g-22	108	388,800	120,426	3.7%	448,649	3.5	2:0	0.0	247,500	52,863	0.5	0.5	0.5	4,590	2,340	3,635,524	101,573	0.0034	186,954	30,000
ag-22 ap-22	5t	183,600	54:073	3:5%	493,054	1.0	3.0	0,0	180,000	85;381	1.0	1.0	0.0	4,330	2,340	5,000,000				
sp-22	42	151,200	44,405	3,5%	493,054	4.0	2.5	0.0	292,500	0.000										
DV 22	0	-	0	3,5%																





Electric Cost Kilowatts Used 3259 57,250 66,830 3760 20 78,070 4637 20 81,780 4741 20 91,550 8962 111,680 9959 -20 115,300 10100 .20 124,800 10619 106,220 5669 -20 94,870 5155 90,890 4734 73,020 4009 -20 53,730 3524 -21 56,370 3696 77,720 4776 -21 88,390 5281 107,320 7727 110:130 10610 -21 150.740 13533 -21 147,810 12737 96.600 8751 85.530 5233 -21 60,370 2348 -21 62,100 3776 -21 55,070 3547 -22 61,330 4063 -22 79,050 4979 -22 96,160 5907 -22 106,100 7292 -22 113,870 10958 -22 113,590 10648 -22 111,690 10800 -22 100,470 8498

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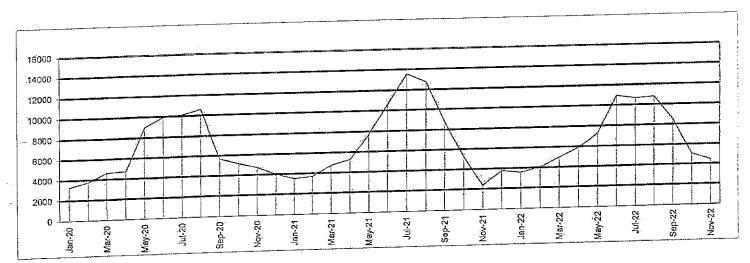
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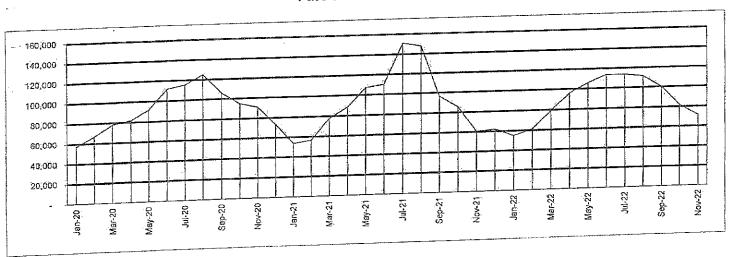
71,240

-22

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

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	Lake of	the O	zarks I	Regio	nal ŴWI	P.#1		<u> </u>				#3	Ande	rson F					Miller	ISWRO	_
MONTHA	— manufacti Alega —				MIT NU			þ	UTFĄL	T KAWI	38					EATME					
Nov-2	22			M	O-01032	41			ţ	f001		Oxi	dation LUEN	i Ditch	iUV/Slu	dge Hol	ding-si	udge is I	land a	polied moval	\dashv
DATÉ	рН	BOD		3 3	imonia as N	TEMP		wc	PH TINU	BC S mg	DD 1	err rss ng/L	Amm as	onla N	DO mg/L	E, co COLFF #/100 /	(M) TE		BOD mg/L	TS!	
1	<u>UNITS</u> 6.9	mg/L	mg/		mg/l 11.7	17,7		3D 340	7.7		<u> </u>	ugru	0.0		10.1	111,100		5.7	11191		\neg
2	7.1				1381	16,0		171	7.6		-			,797	10.1	 		4.5		_	\neg
3	7.3	205	20	2		17.5		485	7.6		.1	0.6			9.9	1			99,5	99	7
4	7,3	200	2.0.	-		19,7		467	7.6				-		10.0	-	-	8.5			
5	7/4	-	-	+		15.8		522	8.0				-		10.0	1	-	16.5			
6	7,1	<u> </u>	_			15.0		742	8.0		\dashv		 		10,0		7	14,7			***********
7	7.2	<u> </u>				17.0		576	7,				+		10.0			15,9			
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8	7.3	16	5 15	6		17		:560	7.		0.7	1.0			10.0			16.1	99.6	9	9.4
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16	7.6				18,7	11	,9	1.674	7	7.9				0.09	11.	ž		11.1			
17	7.4					10	.2	1,510	{	3.5					11.	3		10.0	<u> </u>		.,
18	7.4	1	78 1	64		10),7	1.536	1	7:9	2,4	1	6		11.	5		7.5	98	,7	99.0
19	7.4					1	1,1	1.522		7.7					11	2		8.1			
20	7.5				1877-18-18	7	3	1.442		7.7					11			7.2	1_		
21	7.2					1	3.0	1,453		7,6		_	_		11			9,0	<u> </u>		
22	7.0				20,6	1	4,6	1.428		7.6				80.0	11			10.1			
23	7.3	3 2	205	108		1	4.8	1,409)	8.1	1.8	2	.1			.1	-	9.8		9,1	98
24	7,0)				1	4,9	1,492	2	7,5		-).7		11.9			
25	7.0					1	4.6	1.450	6	7.5		_				3.8		12.3			
26	7.	1					3.8	1.42		7.5						0.9		11.4			
27	7.	1					4.3	2,27		7.5		_ _				0,4		12.6			
28	6.	8					14.4	1.60		7.5						1.1		12.0			_
29	6.	9					14.6	1.38		7.9	<u> </u>	_ _				0.3		13.			
30	7.	0			17.	7	14.1	1,43	8	7.6	-	_		0.0	5 /	1.1		11.	-		
	Rijenit 1	ingo i	V 383			ANI X		46.5	206			775 Y		31,41			R (\$2)!!	i ing			
Total	1000							1.5	2		<u>의 경영의</u> 로 1.		1,3	0.0		10.6	0,0	12		99.2	ç
Avg			188	158			7.1			7.5	0.		0.6	0.0		9.9	0.0	7.		98.7	5
Min Max		6.8 7.6	165 205	202			7 <u>.1</u> 19.7	1.2 2.5		8.5		.4	2.1	0.0		11.9	0.0			99.6	

	MONTHLY EFF	MONIT	ORING	QU	ARTERLY EFF I	MONITORIN	IG	MONTHL	MONTHLY INF MONITORING				
DATÉ	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oll & Greas mg/L	e TR. Cadmium	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L			
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26													
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28													
29													
30													
Total	(3.6)).50						Brighten State - The St	9.0° <0.10			
Avg	3.6		0.50 24.3					4.8		29.0 < 0.10			
Min	3.6	< (0.50 24.3					4.8		29.0 < 0.40			
Max_	3.6	< 1	0.50 24.3					4.8	3 1	29.0 < 0.1			

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

	SLUDGE	the second secon	eration Bas	A large representation of the large state of the la			ration Ba		*Weather Conditions			
	DISP.		MIXED	LIQUOR			MIXED	LIQUOR		Outside		
	LBS. DRY	* DO	** MLSS	*Settlea		* DO	** MLSS	*Settlea	***************************************	* Ambient	*RAIN	Time
DATE 22-Nov	WEIGHT	.mg/I	mg/l	*30 mln ″ ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp °C	Temp °F	Inches	
1		3.9	3,830	208	15.4	4.9	4,170	330	15.5	45	0	7:30
2		3.1	4,820	340	15.3	3.7	5,240	220	15.4	47	0	7:30
3		2.4	3,250	340	16.4	4.2	3,270	250	16.6	57	0	7:30
4		2.0	4,590	400	18.8	4.0	3,400	240	18.6	69	0	7:30
5		1.0	4,140	360	17.0	2.0	3,540	260	17.0	48	1.8	7:30
6		4.0	4,850	410	15,3	5.0	4,670	330	15.4	45	0	7:30
7		3,4	4,530	380	16.0	5.0	3,940	360	16,3	51	0	7:30
8		4.0	4,170	310	16.3	.5.0	4,540	400	16.3	54	0	7:30
9	,	4.0	4,240	330	16.6	4,0	4,780	420	16.7	56	0	7:30
10		1.4	3,520	340	17.9	3.3	2,420	300	18.0	66	.0	7:30
11		1.4	4,390	350	15.0	3,3	4,010	350	15.3	43	0.25	7:30
12		3.8	2,930	330	13.4	4,1	4,420	400	13.7	34	Ö.	7;30
13		4.6	3,050	270	13.3	5,2	4,040	340	13,3	33	0	7:30
14		5.7	3,230	260	11.6	5.7	4,300	320	11.6	29	.0	7:30
15		6.0	3,750	250	11.6	6.0	3,850	330	11.5	39	0.75	7:30
16		6.0	4,050	390	11.4	6.0	3,910	300	12.2	36	0	7:30
17		6.3	4,330	440	9.8	6.0	3,550	310	10.5	29	0	7:30
18		7.0	3,540	430	9.2	7.0	3,590	300	10,0	29	0	7:30
19		5.4	3,750	400	10.6	6.2	3,640	320	11.2	28	Ó	7:30
20		6.1	3,290	410	8.3	7.1	3,35	380	8.8	24	Ö	7:30
21		5.1	3,450	370	8.5	5.1	4,25	0 390	9.1	32	Ò	7/30
22		5.1	3,690	370	9.5	7,2			10.0		0	7;30
23		6.2	4,360	400	10.2	4.	3,99	0 400	12.4	35	0	7:30
24		4,	1 4,41	0 540	11.9				12.		0.5	
25		3.	3 4,48	0 500	12.4				12.	··	0	
26		4.	6 4,43	0 460	11.	4 3.	7 3,80	380	12.			
27		1.	6 4,02	0 350	12.	8 1	9 3,4		13,			
28		3	1 5,06	680	12,	0 3	.1 3,3	00 280	12			
29		1	.4 4,7	50 490	13	.4 2	.6 3,4	10 310	13			
30		3	.0 4,3	30 530	10	.7 3	4 23	340 340) 11	.5 32	2 (7:3

COMMENTS:

ı				
Ī	TESTS PERFORMED BY (PRINT)	//SIGNATURE	PHONE#	DATE
	John Hornback	John Hornball	(573)365-0455	12/2/2022
	REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
	Gary Hutchcraft	Lary Hutchiay A	(573)365-0455	12/2/2022

*Required Daily (Monday - Friday)

**Required 1/week

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

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

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

Permit Number	Outfall Number
MO0103241	00 l M
Monitorii	ng Perlod
11/1/22	11/30/22
NODI;	****

Parameters	Re	porting Requireme	nts	Unit	Reporting R	equirements	Unit
low, in conduit or thru eatment plant	非本京本	*+***	****	****	2.522	1.551	Mgal/d
ton, Location.; End of Pipe	李水谷水果, 李水桑水本	****	*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
ample Type: Total Measured						- C.	
requency: Daily							
3OD, 5-day, 20 deg. C	****	2.4	1,5	mg/L	****	****	****
Aon, Location.: End of Pipe	****	Weekly Avg.:45	Monthly Avg.:30		*****	*****	
Sample Type: 24 Hour Composite	1		10 pp. 10				
requency: Weekly	34	77 J			1		
Total Suspended Solids (TSS)	表中本本中	2.1	1.3	nıg/L.	****	****	****
Mon. Location.: End of Pipe		Weekly Avg.:45	Monthly Avg.:30		****	李和事本本-李林安许参	
Sample Type: 24 Hour Composite		1				1 	£ .
Frequency: Weekly						7	
Phosphorus, total (as P)	3.6	*****	3.6	mg/L	****	***	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	******	
Sample Type: 24 Hour Composite						4L 1	
Frequency: Monthly			! #				
Nitrogen, Kjeldahl, total (as N)	<0.50	****	₹0.50	mg/L	林林林林林	****	****
Mon, Location,: End of Pipe	Daily Max.:Monitoring Required	*******	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite			1		100		
Frequency: Monthly		į					
Nitrite plus nitrate total (as	24.3	****	24.3	mg/I	本字本字水	****	****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	****	Monthly Avg.1Monitoring Required		*****	*****	
Sample Type: 24 Hour Composit	e 🎚						
Frequency: Monthly							
Nitrogen, ammonia total (a:	0.09	****	0.06	mg	T *****	表章中米米	*+*
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	******	Monthly Avg.:Monitoring Required		***************	中央军士长。 守书本常名	
Sample Type: 24 Hour Composi	te	1					
r	j:	1	!	!!	li		1

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

pH	7.5	张林朱华本	8.5	SU	****	****	****
Mon. Location,; End of Pipe	Minimum:6.0	****	Maximum:9.0		****	****	
Sample Type: Grab							ļ
Frequency: Weekly							
BOD, 5-day, percent removal	****	孝和本意本	98.7	96	*#**	***	****
Mon. Location.: End of Pipe	冷水水水水•水水水水	*****	Monthly Avg. Min.:85		****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	****	****	98.1	%	****	****	****
Mon, Location,: End of Pipe	· 本本本章 · 朱老本字本	*****	Monthly Avg. Min.:85		*****	******	
Sample Type: Calculated							
Frequency; Monthly	Ī	Ï	-		•		ţ.

Comments:

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

Permit Number	Outfall Number
MO0103241	INFIM
Monitörli	ig Period
11/1/22	11/30/22
NODÍ:	****

Parameters	Re	porting Requireme	ents	Únit	Reporting l	Requirements	Unit
3OD, 5-day, 20 deg. C	冶本水灰堆	****	188	mg/L	****	****	****
Mon, Location.) Influent	****	****	Monthly Avg.:Monitoring Required	1	本法政府本。本来中本本	· · · · · · · · · · · · · · · · · · ·	
Sample Type: 24 Hour Composite						*!! 	
requency: Monthly							
Total Suspended Solids (TSS)	表本水参米	冶岩岩林台	158	mg/L	****	****	****
Mon. Location.: Influent	***	*****	Monthly Avg.:Monitoring Required		******	李净产业4×************************************	
Sample Type: 24 Hour Composite			i :				7/11/20
Frequency: Monthly			*		!		
Nitrogen, ammonia total (as N)	20.6	****	15.5	mg/L	****	李华华华	****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required	The state of the s	*****	*****	
Sample Type: 24 Hour Composite						1	1
Frequency: Monthly							
Phosphorus, total (as P)	4.8	****	4.8	mg/L	非本本本本	李本安年本	****
Mon, Location.: Influent	Daily Max.:Monitoring Required	****	Monthly Avg.:Monitoring Required		****	*****	
Sample Type: 24 Hour Composite						L	ļ
Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	29.0	水水学水本	29.0	mg/L	神安班水牵	****	****
Mon. Location.: Influent	Daily Max iMonitoring Required	*****	Monthly Avg.:Monitoring Required		*****	***********	
Sample Type, 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	<0.10	浓 ·**	<0.10	mg/L	****	****	****
Mon. Location .: Influent	Daily Max,:Monitoring Required	****	Monthly Avg.:Monitoring Required		****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly		7			1	Ĭ	

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

		with a system designed to assure that qualified personnel properly gather and evaluate for gathering the information, the information subjuiting is, to the best of my duding the possibility of time and imprisonment for knowing violations.
eSignature	Submission Date December 5, 2022	User Phone Number (573)365-0455

LAKE OZARKIOSAGE BEACH WINTP Operation Report.

ROW NOVEMBER 2022

																					assuments.				418	HILLIANS I			18 1715	- L	- Value						rt.s	a tribuca				_		ATTH	SULTER SEE	#4537 E	St. F. St.
								- conserve							,	6777	000014TE44.E	outpork			pát ríta Aria pát ríta Aria sagusta Leije	44			MECH.	t territor		VILAMIT MODE	12/5 C7/A/S	13.	PG12		_			1 4	3	-17	s 1 = 2	1 =.	13	3.1	31- 3	, –	4.		Ē
	. t		, Š	.3.	5 e 1	12			net herd	Cartery Co.	17 17 17 17 17 17 17 17 17 17 17 17 17 1	Total Control	Kern's Kires	9	100	1	Spring Kilwa	Derported	CHARACTED NO. 1	3	The same	1 2	8,5	distriction No.234 Fee 1	fittavirite Goden	2 th	W5	a series	Diff. High	FAME Shell Spraints	E ST	pate primita	E	fertinant.	Harter All Market Bland	Chycles.	Sept.	<u>a</u>	Trees.	traurie:	(S) present	1	A STATE OF		Electric Party Par	ningeli Nick	14
24.82	Parit United	Park Covere	ARA N	in a	21	4	12 1	£3	Ē*	žė	. <u>1</u> 5	-4	12.5				1				5 1		us to		- 2	79	7.12	19	03	0.5	0.5	1,340	. 7 6h		10	1 100	15.7			-	1			0.682	1		+
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		0.561										ļ	-	17.			<u>e</u>	0		258		105 7,	1 .	3,270		-	-	-	0.5	y.a.	0.5	1,485	7 52	1,1	26 2		162			<u> </u>	-			10,37			·
LECTE.	0.1518	0.581	b 3J265	198	170	205	162	188	202			<u> </u>			91 <u>5</u> 17	-	<u>-</u> 9	5		720 720		87 7.	-	5.400			7:13	4.0	r.o	17.5	0.5	1.467	768		10		_] x.s [+-	}			0.51			1
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		1.703				-].			-			an <u>l 15</u>	7		4		853	20.00	.84 T.		4.676	330	71	7,50	90	2.5	9.5	0.5		<u>ε.ce</u>).00 fr	-14.72							0.87		-	Ī
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LR-GII	0,257	0.993	1.185			_						 -	-	7.	20 17 10 18		ni	ni	51 43	, } ····		74 7.0		4,540	4(9)	189	7.17	16	0.5	0.5	0.5	13484				ro stá					1			0,65	7		164
LH-H3						-				88		 			10 19 30 17		- tr	n	56 4.			78 73		a 7841	-170	89		10	<u>05</u>]	0.5	95	1,560		0,7	1.0 10		16.1		+	1-			_	0.22		45.000) 3,573
URMET	0.198	0.882	1.677	155	175	165	126	[46	1.56						622 tš	_		ři .		220	340	·97 7.	7 14	2,420	300	124		33	0.3	0.5	0.5	39	7,50				17.7	一十		1	1	-		0.68	- 6		<u> </u>
LEXH					<u></u>							-			56 - 14		£ 0.	-	43 4		350	gp 7.	9 L3	-3,010	350	87	722			8:5	12.5		7.76				14.1			1				11.58	4,280		<u> </u>
1.R7F1													†		13 15				34 21	130	3.50	78 7	0 38	4,420	400	150	7.22		-	0.5	05	621			10		133			1	Ti			0.38			
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		0.677											-	7:	-	-1	s 0.	9	19 3.7	7,50	250	67 83	6.P	3.850	337		12000			-05	0.5	(,4%) (,647	- 2	— <u></u>	- 11		1		36 < 0.5	0 243		1		0.37	7,420		<u> </u>
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L					596	753	56%	580	e thi	77.5	4.8	29.0	1 < 0.1	p 215	si sap	9		2 12			1,710 2.8		3 110'6			7	210 L3	7.0 3 R.S.		10.0	1:0				2.1 11	9 0.0	FR.5		34 0 5					6 1.02		1	7
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. 1	0.078]	62.6177	(1755)	155	127	-100	H-12		058			293			18. 14	1	10.	- 1	4.0	n i	100	96 75	n 19	3,416	13.21	1 787	7.431	9.24			مانة رئيس																

4 789 2000 11.644 776 576 753 566 780 684 775 48 290 0.010 30.01 3	1.8 40 5,000 600 134 8,001 20 5,240 420 0 34 2,930 250 67 7,06 1.0 2,340 230 0,13 42 4,841 340 96 7,22 3.9 3,846 332	1 1 1 1 1 1 1 1 1 1	6 36 0.99 243 0 0 0 0 0.975 3.380 45.000 00 15 0.000 0.000 0.000 0.000 7.413 54.000
nkhrenizziona Resin, Septem, Oeoronaan, Cedear, PC-purthy dondr			
quiet to GR, PH, LR	Approved by GIT	Thesi (2/5/2022)	

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 December 2022

Submitted by Alliance Water Resources, Inc. for the January 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		E,coll Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.8	2.6	N/A	0.0	0.05	< 4.8
Peak Day	4.1	3.6	7.8		0.13	< 4.8
Percent Removal	98.6	98.8	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	_pH_	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30 45	30 45	6-9	126 630	3.1	10
Weekly Average Daily Max	-10	40		N/A	12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 0.940 MGD or 31% 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 50086 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 8 tanker loads of bio-solids during the month equivalent to a total of 28,800 gallons and 7,746 pounds dry weight solids.

500,800 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 315,000 gallons with a level of 4.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 33 loads of septage during the month totaling 71,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- American Sun Control was here on the 1st of December and installed the new safety handrall down the steps going to the outfall.

WWTP MAINTENANCE AND REPAIR

- · Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We noticed we had an excess build up of grease in the lift station between the aeration basins on the 1st of December. We purchased some grease eating bacteria/enzymes and started putting it in it on the 2nd and it seems to have helped with the breakdown of the excess grease allowing the pump floats to work more efficiently.
- Catalyst Electric came in on the 2nd of December to troubleshoot the timers again and said that the limit switch and the timer base needed changed so we ordered replacements. They came back on the 20th and installed the new timer & base and seems to be working now.
- We had multiple after his, call outs during the cold snap through the Christmas holiday. Twice on the 22nd, once on the 23rd and twice on the 26th of December. The first three were just power blinks and we just had to restart everything, but first one on the 26th aerator #1 went down and we noticed the power feed conduit was hanging down due to the excess weight of the ice. We didn't try restarting it until we could further investigate the situation and put aerator #2 back online. We contacted Catalyst Electric on the 27th but they couldn't make it out until after the 1st of January.
- We sprung a non-pot water leak in the headworks on the 27th of December. We located the valves that feed that building and shut them off until we could get it repaired.

SAFETY

 We conducted our monthly Safety Meeting on Chlorine Safety for Water and Wastewater Operations, Handling Sodium Hypochlorite, Housekeeping Awareness, Ladder Safety: Safe Use & Chainsaw Safety on the 13th of December.

REGULATORY AGENCY, INSPECTION AND REPORTS

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

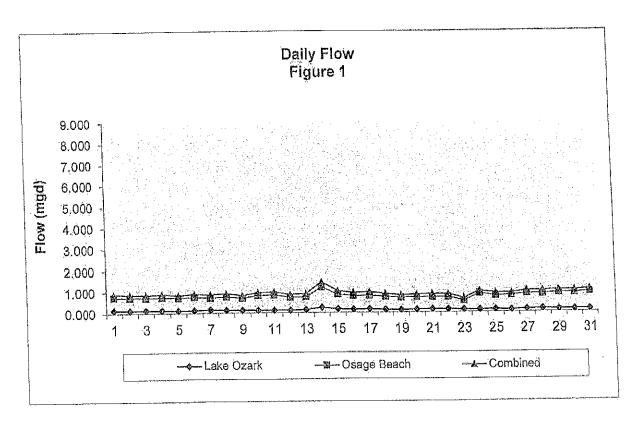
MISCELLANEOUS AND RECOMMENDATIONS

We have completed what we can up to this point on the 5-year CIP, but didn't have it ready before they needed the packet info, so will bring a copy to the Joint Sewer Board meeting and as you'll see it's going to be a document that will need updated as we go.

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 2022

DATE			FL	OW			1	BOD	5 MG	n.		TSS	MG/I	
	RAIN FALL	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l		g/l	COMB mg/l	LO mg/l	O	·	COMB mg/l
Tran	IN.	0.145	0.764	0.909	16.0	84.0				00.5	 	0	348	100
1-Dec 2-Dec	lăll	0.136	0.745	0.881	15.4	84.6	17	5	308	205	13	V .	340	ÎOÒ
3-Dec		0.138	0.733	0.871		84.2				<u> </u>	<u> </u>			
4-Dec	0	0.138	0.757	0.895		84,6		_			<u> </u>			
5-Dec	i Š	0.117	0.735	0,852	13.7.	86.3					<u> </u>			
6-Dec	0	0.134		0.900		85.1					<u> </u>			
7-Dec	0	0.163	0.725	0.888		81.6		_ _			<u> </u>			
8-Dec	0.25	0,144	0.776	0.920	15.7					0.17	. 	16	276	244
9-Dec	0.1	0,136				83.9		78	263	218	5	10]	2/0	2-1
10-Dec	0.3												· · · · · ·	
11-Dec	0							_ _						
12-Dec	0		0.742					-		<u> </u>	-}			
13-Dec	0.6	0.152	0.75											1
14-Dec	0.3	0.243	1.212								-			
15-Dec	C	0.169	0.86.					143	148	718	28	114	158	3 20
16-Déc	0	0.14						143	1,40	, , , , ,	4			
17-Dec		0.16									-			
18-Dec		0.13								<u> </u>	-∦			
19-Dec	(0.11								1	-∦			-
20-Dec		0.13									_ -	- -		
21-Dec		0.15						223	19	5 2	25	168	14	2 2
22-Dec	1	0 0.14						223	1.7			-		
23-Dec	0.													
24-Dec		0 0.12				5 85	حسون استعمادات							
25-Dec		0 0.1.			Contractor of the Contractor o	.9 88								
26-Dec		0.10		100			5.2							
27-Dec		0.1		17			1.8							
28-Dec	ATTICATION OF THE PARTY OF THE	0 0.1					5.5	230	Ţ:	13	195	212	1,	56
29-Dec		0 0.1					7,1	<u> </u>						
30-Dec		0.1					8.6		-	_				
31-Dec	. 0	0.1	23 0.9	34 1.	075 .3	X, T9	<u> </u>						·	
SUM	1.9	4,376	24.749	29,12	5					_				
AVG	_	0.141	0.798	0.94	0	15	85	190	21.	3 20	6	148	21	6 21



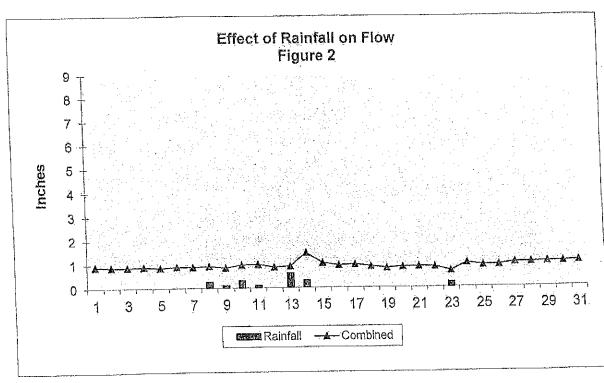
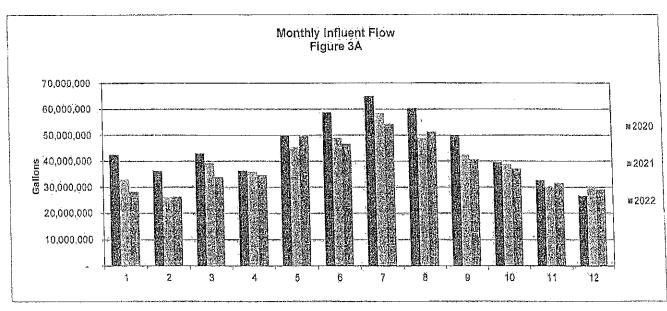
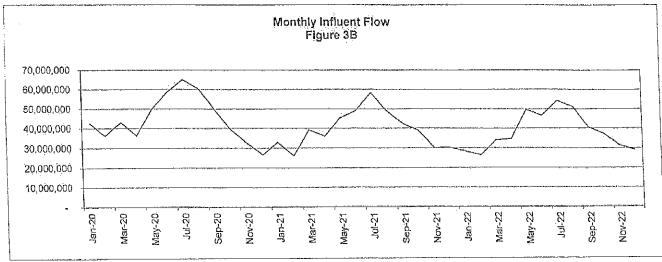
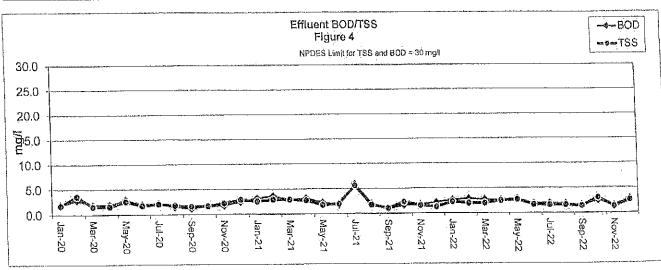


TABLE B
JOINT SEWER BOARD
Monthly Flows

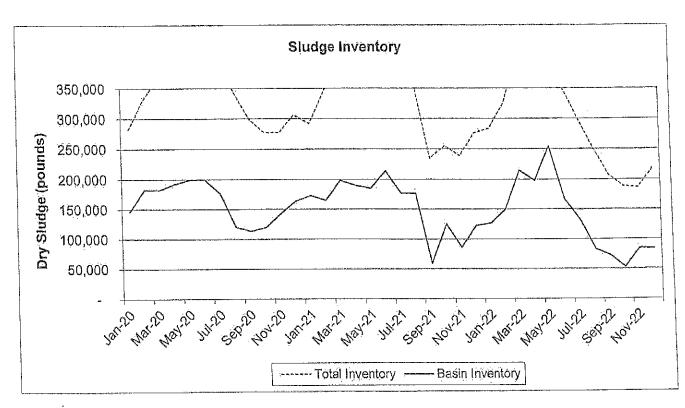
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April 3.2 37,1964,000 84% 7,479,000 16% 45,443,000 100% June 8.0 41,695,000 85% 7,390,000 15% 49,085,000 100% July 6.9 49,378,000 85% 9,000,000 15% 58,378,000 100% August 1.8 41,691,000 85% 7,211,000 15% 48,902,000 100% September 3.1 36,185,000 85% 6,366,000 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% February 3.8 21,853,000 83% 4,824,000 17% 28,423,000 100% March 5.2 28,266,000 83% 4,610,000 <t< td=""><td></td><td></td><td>and the second s</td><td></td><td></td><td>100%</td></t<>			and the second s			100%
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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% December 2.3 25,041,000 84% 74,860,000 16% 478,201,000 100% December 2.3 25,041,000 84% 74,860,000 16% 478,201,000 100% December 3.8 21,853,000 83% 4,810,000 17% 28,423,000 100% March 5.2 28,266,000 83% 5,657,000	-			* * '		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%						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 28,265,000 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 10	December	2.3	23,041,000 0270	2,011,000		
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April 0.5 25,000 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%			그 그 전 사람들은 그 가장이다.	Ty W		100%
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December 1.9 24,749,000 6570 7,570,000 100 100%		·		· .		
52.7 388,482,000 84% 75,577,000 16% 464,059,000 100%	Decembe	r 1.9	24,749,000 85%	0 4,370,000 1370	27,122,000	, 50,79
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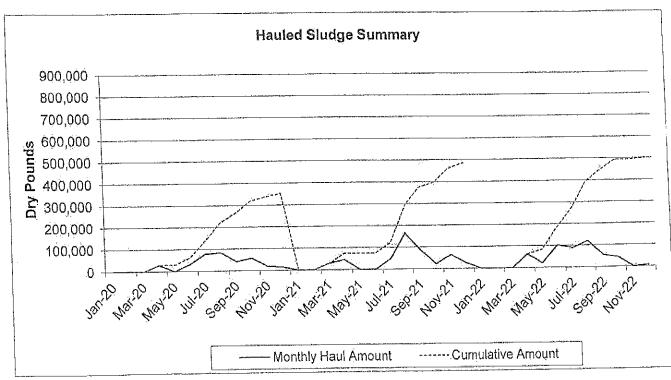






																			T-10) (2m.	Accepted Septage
						Pasi	n Depths				Elani	ket Denths		MLSS Inv		Blanket and M		MLSS	Total Dry Judge Inventory	Loads Gallons
ſ			Hauled	Sludge	Annual Comulative # Dry			3#1 B	asin Gallons	# Dry_	Clarf #1			LSS.AB#1 M	ILSS AB #2	Gallons	#,Dry 136,015		282,382	16 34,100
L	Loads	Gallons	# Dry		Annual Comusalive # 2/1	6.0	4.0	0.0	450,000	146,367	1,0	1.5	0.0	4,260	4,690	3,644,405	147,718	0.00479	330,676	23 57:000
1-20	0	-	0	3.9%	_	8.5	6.0	0.0	562,500	182,959	3,5	2.0	0,0	5,190	4,390	3,697,691 3,767,762	183,825	0.00585	366,784	25 64,500
>-20	r)	-	0	3.9%	_	5.5	7.0	0.0	562,500	182,959	2.0	5:0	1.0	5,760	5,940	3,767,762	169,214	0.00552	351,742	39 107,000
r-20	0		Ų.	3.9%	29,315	6.0	7.5	0.0	607,500	192,528	1,0	1.0	1.0	5:740	5,290		191,322	0.00605	390,981	35 83,000
r-20	25	92,500	29,315	3,8%	29,315	6.0	8:0	0.0	630,000	199,660	1:0	7.0	1.0	6,010	6,110	3,785,524 3,852,620	227,647	0.00709	427,875	6 18;000
-20	Ď.		0	3.8% 4.1%	60,975	6.0	7.0	0.0	585,000	200,228	6.0	7,0	0,5	7,050	7,120	3,892,026	231,603	0.00714	408,656	88 208,000
1-20	25	92,500	31,660		138,243	6.0	7.0	0.0	.585,000	177,054	7.0	7.0	1.0	6,890	7,380	3,856,572	224,021	0.00697	343,974	67 158,000
4-20	69	255,300	77,268	3.6%	221,529	5.0	4:0	0.0	405,000	119,953	6.0	6.0	1.0	6.530	7,400	3,657,238	188,058	0.0061	299,304	45 104,500
3-20	76	281,200	83,286	3.6%	263,156	4.0	4,5	0.0	382,500	113,246	1.0	1,0	0.5	6,000	6,200	3,678,952	158,015	0.00515	277,578	16 32,000
3-3Q	38	140,600	41,627	3.5%	318,454	5.0	3:0	0.0	360,000	119,563	1.0	1,0	1.0	4,960	5,070		134,465	0.00343	277,576	16 36,000
1-20	45	166,500	55,298	4.0%	337,709	5.0	6.0	0.0	495,000	143,111	1.0	0.0	0,5	4:780	4,080	3,639,476 3,639,476	142,508	0.0047	306,620	33 69,000
J-20	18	66,600	19,255	3.5%	352:552	4.5	5:5	0.0	450,000	164,112	1.0	0.0	0.5	5,030	4 360	3,750,000	118,689	0.0038	292,077	83 205,500
>-20	11	40,700	14,843	4,4%	.352,332	7.0	3.5	0.0	472,500	173,389	6.0	0.0	1,0	3,810	3,780	3,830,906	179,558	0.00562	344,690	28 69,500
1-21	Ð	•	0	4.4%	•	5.0	5.0	0.0	450,000	165,132	5.0	8.0	0.0	5,490	5,750:	3,746,048	205,573	0.00658	404,122	32 70,000
5-21	D.	-	0	4.4%	28,883	6.0	7.0	0.0	585,000	198,549	.2.0	5.0	0.5	6,830	6,330		203,375	0.00612	391,957	22 52,000
r-21	23	85;100	28,883	4.1%	74,152	6.0	7.5.	0.0	607,500	190,582	12.0	5.0	1.0	6,890	5,350	3,945,382	215,427	0.00012	400,825	48 128,500
r-21	39	144,300	45,269	3.8%	74,152	6.0	7,0	0.0	585,000	185,398	13.0	14.0	1.0	6,200	6,330	4,123,002 3,926,643	234,903	0.00717	448.824	63 151,500
y-21	Ð	-	ō	3.8%	74,152	7.0	8.0	0,0	675,000	213;921	-6.0	7.5	2.0	7,260	8,060	4,067,7 62	279,340	0.00823	457,007	117 289,000
7-21	-0	-	0	3.8%	121,530	5:0	7.0	0.0	540,000	177;668	7.0	12.0	3.0	9,190	8,110	3,657,238	183,008	0.0050	359,701	66 163,000
1:-21	40	144,000	47,378	3.9%	287,693	7.0	6.0	0,0	585,000	176,693	1.0	1.0	0,5	5,160	5,840	3,657,238	175:383	0.0058	234,640	62 159,500
3-21	153	550,800	166,363	3.5%		2.0	3.0	0,0	225,000	59,257	1.0	1.0	0.5	5 320	6,180		130,381	0.0043	255,554	34 60,000
o-21	92	331,200	87,226	3,2%	375,119 397,817	3.5	4.0	0,0	337,500	125,173	1.0	0,5	0.5	4,430	4,140	3,648,357 3,626,643	152,138	0.0050	238,580	37 63,000
:1-21	17	61,200	22,698	4.4%		3:0	2.0	0,0	225,000	86,442	0.5	1,0	0.0	5,130	4,980	3,625,524	154,179	0:0051	276,759	27 62,000
v-21	45	165,600	63,621	4.6%	461,438 485,577	4.0	2.5	0.0	292,500	122,581	1.0	1,0	0,0	4,540	5,630	3,679,929	157,136	0.0051	283,800	13 27,000
c-21	16	57; 6 09	24,139	5.0%	465,577	4,5	3,0	0.0	337,500	126,564	1.0	3,5.	0,0	5,060	5,180	3.697.691	174,393	0.0057	324,513	32 68,000
n- 22	0	-	0	4.5%		7.0	3.0	0.0	450,000	150,120	4.0	1.5	0.0	6,280	5,030	3,937,478	190,464	0:0058	405,135	23 48,000
o- 2 2	0	-	0	4,0%		6.0	7.0	0.0	585,000	214 672	9:0	10.0	0,0	5,870	5,760	3,998,668	211;765	0.0064	410,021	52 124,500
r-22	Ð	-	0	4.4%	00,400	7,0	5.0	0.0	540,000	198,255	10.0	10.0	1.0	7,100	5,600	3,856,572	207,778	0.0065	462,281	37 85,000
r-22	47	169,200	62,120	4.4%	62,120	8.5	7.0	0.0	697,500	254,503	2.0.	10.0	1.0	6,290	6,630	3,753,952	184,247	0.0059	351,297	42 93,500
y-22	15	57,600	21,017	4.4%	83,137	.7.0	4.0	0.0	495;000	167,049	4.5	0.5	1.5	5,760	6,010	3,755,932	166,296	0.0052	298,348	33 68,500
2-22	84	302,400	102,052	4,0%	185,189	7.0 7.0	2,5	0.0	427,500	132,051	8.0	3.0	1,5	4,740	5,860	3,666,119	166,789	0,0055	250,418	168 300,000
J-22	80	288,000	88,961	3,7%	274,150	2.0	4.0	0.0	270,000	83,629	1.5	1.0	0.5	5,490	5,420		134,359	0:0044	207,251	76 168,000
2-22	108	388,800	120,426	3.7%	394,576	3:5	2.0	0.0	247,500	72,893	1.0	1.0	0.5	4,650	4,160	3,657,238	136,286	0.0045	189,149	33 71,000
2-22	51	183,600	54,073	3.5%	448,649	1.0	3.0	0.0	180,000	52,863	0:5	0.5	0.5	4,590	4,390	3,639;476	101,573	0.0034	186,954	38 89,500
t-22	42	151,200	44,405	-3.5%	493,054	4:0.	2.5	- 0.0	292,500	85,381	1:0	1.0	0.0	4,330	2,340	3,635,524	133,756	0.0044	218,478	33 71,500
y-22	0	-	0	3.5%	493,054	4.0	3:0	0.0	315,000	84,722	1.5	1.5	0.0	4,510	4,270	3,653,285	1,55,750	0.0011	,	•
c-22	8	28,800	7,746	3,2%	500,860	4.0	3.0													
U-22	-																			





Electric Cost Kilowatts Used 57,250 3259 -20 66,830 3760 78 070 4637 81,780 4741 -20 91,550 8962 -20 111,680 9959 -20 115,300 10100 -20 124,800 10619 -20 106,220 5669 -20 94,870 5155 -20 90,890 4734 -20 73,020 4009 -20 53 730 3524 -21 56,370 3696 -21 77,720 4776 -21 88,390 5281 -21 107,320 7727 -21 110,130 10610 -21 150,740 |-21 |-21 13533 147,810 12737 96,600 -21 8751 85,530 5233 t-21 60,370 2348 -21 62,100 3776 :-21 55,070 1-22 3547 61,330 4063)-22 79,050 4979 r-22 96,160 5907 r-22 106,100 7292 /-22 113,870 1-22 10958 113,590 I-22 10648 111,690 10800 **j-22** 100,470 8498 -22 -22 82,030 t-22 5071

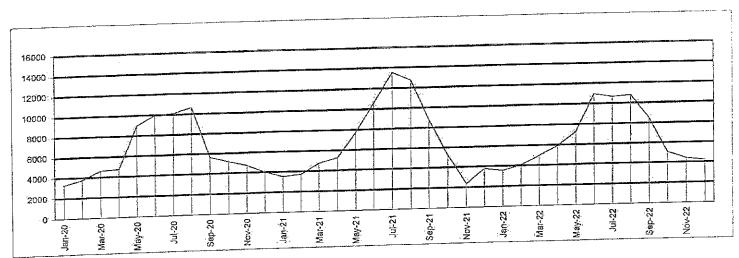
4451

4224

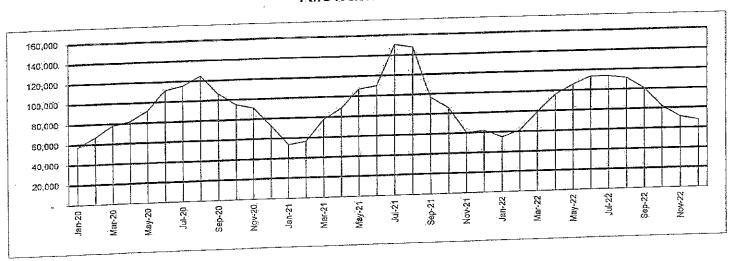
71,240

68:000

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

		NAM	E OF	FAC	ILITY				. L	OCATIO	ON ADDRE	SS & CIT	Υ	C	OUNTY/R	EGION
		the O	zarks		onal WWT					#3	Anderson				Miller/SV	VRO .
MONTH					RMIT NUM	•	ŀ	OUTFALL N	IMBEI				EATMENT			
Dec-	2.2	INFL	JENT		MO-010324	11		#001		Oxid	lation Ditch .UENT	/UV/Stud	ge Holdin	g-sludge is	land app	
DATE	ėH. UNITS	BOD mg/L	TS:	ş	mmonia as N mg/l	TEMP	FLOW MGD		BOD	TSS	Ammonia as N	DO	E, coll COLFRM		BOD	TSS
ાં	7,3	11361	11119	r <u>u</u>	ingn	10.2	1.399	7,1	mg/L .	mg/L	mg/l		#/100 ML	°C 8.7	mg/L	mg/L
2	7,2	205	10	0		11.7	1,447	7.7	1.8	2,1		11.3 11.0			99.1	97,9
3	7.3		1 27	-		9.8	1.337	7,6	7.0	6-1.1		11.3		9.1	88.1	97,9
4	7.4		1			10.4	1.432	7.6				11.3		9.4		,
-5	7.3					13.9	1,360	7.7				11.0		10.8		
6	7.3	· · · ·	 	-	16.0	14.0	1.396	7.7			0.02	11.1		11.9		
7	7.0	VEV. 201 - 200 EM				14.8	1.369	7.5			35° 7' (7')	11.1		12,1		.,
8	7.0		1			15.6	1.360	7.5	-			11,1		13.2		
9	7.5	218	24	4		13.9	1.322	7.7	2.6	2.3		11,1		12.3	98.8	99.1
10	7.2					13.7	1.472	7,7				10.8		12,2	90.0	,90,1
11	7.1					13.2	1.522	7.8			- · · · · · · · · · · · · · · · · · · ·	10.8		11.7		
12	7.1					14.5	1.341	7.7				11.0		11.7		
13	7.0				20.3	13.9	1.424	7.6			0.13	ĮŐ.7		11.9		
14	7.3					13.2	1,995	7.7				12.1		11.1		
15	7.7					10.9	1.509	7.6				11.1		10.5		
16	7.5	188	20	34		11,4	1.451	7.5	1.9	2.4		11.1		9,5	99.0	99.1
17	7.6					8.7	1.329	7.6			1-	11.2		8.6		
18	7.6					7.3	1.392	7.6				11.3		6.0		
19	7.3					11:3	1.382	7.7				11.0		8.9		
20	7.0				24.2	12,3	1,324	7.5	,		0.02	11.0		9.5		
21	7.0					12,6	1.354	7,5				1111		9.1		
22	7.4	228	2	36		8.8	1.414	7.6	3.5	2.8		11.0		6.5	98.4	98.8
23	7.6		_		· · · · · · · · · · · · · · · · · · ·	6.0	1.173	7.5				12.0	<u>. </u>	4.0		
24	7.1					10.2	1.651	7.5				12,7		5.8		ļ
25	7.1					10,8	1,499	7:6	ļ	<u> </u>	-	12,7		6.1		
26	7.2	_	_ _			10.6	1.443	7.4	1			12,5		6.0	<u> </u>	-
27	7.0				9.2	10.0	1.543		ļ		0.02	12.4		5.5		
28	7,4		_	·		10.8	1,554	7,5	<u> </u>		1	12.1		7.3		ļ.,-
29	7.2	19	5 2	206		13.7	1,524		4.1	3.6		11,9		12.2.	97.9	98.
30	4,5					11.8	1.401	7.6	ļ			11.1		10,0		ļ
31	7,5	609 3 Co. (5.5	4.7.9 SE	18 J. 1829	Security of Secretary	1.0.1	1,559		San Arthur	فالمتراف الأرابي وا	ide constant	11.3		9.6	n .56 - 1.10 -	8 V., V st.
Total					的構造	No.	44,678				建物的	H-Sport	464			
Avg		7	$\neg \vdash$	210	17.4	11.6	1.441					11.4		9.4	98.7	98
Min	4,5	18		100 .	9.2	6.0	1.173		1.8		***	10.7			97.9	97.
Max	7.7	22	5	264	24.2	15.6	1.995	7.8	4.1	3,€	0.13	12.7	7 0.0	13.2	99.1	99.

MONTHLY EFF MONITORING				QUA	RTERLY EFF I	MONITORIN	G	MONTHLY INF MONITORING								
DATE	Phosphorus mg/L	TKN mg/i.	Nitrite+Nitraté mg/L	Oil & Grease mg/L	TR. Cadmium	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L						
1																
2			<u> </u>				ļ									
3																
4					-					 						
5		V-10-0-10-0					<u> </u>									
6	2,8	< 0.50	28.1					4.8	24.1	< 0,10						
7	and the control of th															
8									-	,						
9									·							
10									ļ							
11						_			-							
12	// // // // // // // // // // // // //															
13						-,										
14																
15			<u></u>					C. L. CALLE CONTROL OF THE PARTY OF THE PART								
16		<u> </u>														
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18	ABARONE															
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31	્રાઇક્સાન્ડ્રેસન્ ટ્રેલ્સ કેલ્સ કેલ્સ કેલ્સ	9万年 - ウロとべい		entry was to be to the	Transfer des des des seus seus	NG MARK				111 × 0.10						
Total	2.8		50 11 28 1	ini reserv	MA LEGAL A		Part State									
Ávg	2.8	< 0.8						4.8		4 <u>:1 ≤ 0.10</u>						
Min	2.8	< 0.3	CALLED BOOK . T					4.8		4.1 < 0.10						
Max	2.8	< 0.	50 28.1					4.8	2	4.1 < 0.10						

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

	SLUDGE	[#1A	eration Ba	sin. O-Dif	ch Fic	#2 A	eduiten i	sin, O-Dito	VAIED SL	UDGE" PROCESSES *Weather Conditions						
i i	DISP.		MIXED			WA CO	MIXED	LIQUOR				ditions				
	LBS, DRY	* DO	** MLSS	*Settle		oa*	** MLSS	*Settlea		Outside	, ,	 :				
DATE	WEIGHT	1		*30 min	Temp		1	*30 min	Temp	* Amblent Temp	KAIN	Time				
Dec-22		mg/l	rng/l	ml l	°C	mg/l	mg/l	ml	6 C	emp,	inches					
1		4.1	3,650	370	9.9	4.1	3,770	540	10.1	29	0	7:30				
2		4.1	3,580	320	11.6	3.2	4,690	620	13.6	52	Ö	7:30				
3		4.0	4,050	390	10.1	3.1	4,540	490	10.6	34	0	7,30				
4		4.1	4,410	490	9.7	3.1	4,130	490	10.5	34	0	7:30				
5	4,954	3.4	4,620	450	11.0	3.0	4,240	440	11.3	45	0	7:30				
6	2,792	2.1	4,280	480	12.0	1.2	4,250	470	12.3	52	0	7:30				
7		2.1	4,280	410	12.3	2.1	4,740		12.5	48	ő	7:30				
8		2.2	4,280	400	12.9	2.1	4,700	520	15.5	51	0.25	7:30				
9		1.4	4,460	500	12,6	1.3	4,430		13.3	50	0.25	7:30				
10		1.1	3,660	460	12.1	1.7	4,370		12.3	45	0.3	7:30				
11		2.3	4,280	500	11.9	2.0	4,180	7	12.1	44	0.3 0.1	7:30				
12		1.8	4,690	550	11.7	1,6		-	11.9	42	0.1					
13		1.1	4,320	500	11.6	1,3	4,510	A	11.8	44	0.6	7:30				
14		1.2	4,550	450	12.2	1,2	3,940		13.1	46	0.6	7:30				
15		2.0	4,360	490	11	2.0	4,820		11.3	39	0.3	7:30 7:30				
16		3.1	4,590	550	9.7	2.0	4,710		10.2	39	10	7:30				
17		5.1	4,350	550	8.6	5.1	4,300		9.5	27	0	7:30				
18		5.5	4,010		7.8	4.5	4,370		8.9	23	0	7:30				
19		4.2	4,070	520	9	2.2	4 570		9.5	36	0	7:30				
20		5.2	3,920	510	8.7	2.6	4,590		9.6	39	0	7:30				
21		4.4	4,300		7.9	2.1	3,890		8.8	33	ó	7:30				
22		3.0	4,470	500	8	2.0	4,250		9.5	26	0	7:30				
23	- I - I - I - I - I - I - I - I - I - I	4.2	4,460	770	4.2	6.1	4,440		5.5	-5	0,2	7.30				
24		5.6	4,180	670	5.2	3.4			6,3	7	0	7:30				
25		6.1	4,280	660	.5.4	3.6			6.0	5	0	7:30				
26		3.6	4,730	650	5,9	3.6			6,7	37	0	7:30				
27		5.3			4,8	3.5			5.8	12	0	7:30				
28		5.2			7.2	2.1		· · · · · · · · · · · · · · · · · · ·	7.8	38	0	7:30				
29		4.1			10.5				10.9		0	7:30				
30		3.1			11	2.1			11.8		Ö	7:30				
31		1.4			9.5	2.1			10.3		Ó	7:30				
COMMEN	iTS:					· · · · · · · ·			7(7)			1177				

C	O	M	M	ΕN	TS	ď

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE#	DATE
John Hornback	Colon How Ball	(578)365-0455	1/5/2023
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Dours Hutchaff	(573)365-0455	1/5/2023

*Required Daily (Monday - Friday)

**Required 1/week

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

Permit Number	Outfall Number
MO0103241	001M
Monitoria	ig Period
12/1/22	12/31/22
NODI:	****

Parameters	Rej	porting Requiremen	its	Unit	Reporting R	rting Requirements					
Tow, in conduit or thru reatment plant	****	****	****	****	1.995	1,441	Mgal/d				
Mon. Location.: End of Pipe	冰冷水光冷水水水水	*****	****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required					
Sample Type: Total Measured											
Frequency: Daily											
BOD, 5-day, 20 deg. C	****	4,1	2.8	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	2,6	mg/L	***	****	****				
Mon. Location.: End of Pipe	★水★本糸***********************************	Weekly Avg.:45	Monthly Avg.:30		****	· · · · · · · · · · · · · · · · · · ·					
Sample Type: 24 Hour Composite											
Frequency: Weekly	· [
Phosphorus, total (as P)	2.8	****	2.8	ing/L	冰中如水水	****	*****				
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*冷水水水。**水水水水	****					
Sample Type: 24 Hour Composite					N. Control of the con		1				
Frequency: Monthly											
Nitrogen, Kjeldahl, total (as N)	<0.50	****	<0.50	mg/L	****	****	****				
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	******	Monthly Avg.:Monitoring Required	1.17	****	*****					
Sample Type: 24 Hour Composite			à la								
Frequency: Monthly											
Nitrite plus nitrate total (as N)	28.1	*****	28.1	T\gm	****	****	****				
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		******	****					
Sample Type: 24 Hour Composite	;					1					
Frequency: Monthly											
Nitrogen, ammonia total (as	0.13	*****	0.05	mg/	L *****	****	***				
Mon. Location.: End of Pipe	Daily Max.:12.1	******	Monthly Avg.:3.	1	*****	****					
Sample Type: 24 Hour Composit	e	*					Ì				
Frequency: Weekly	ar 		Î				 				

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

Н	7.1	非本本市本	7,8	∦ sų	养参布存存	*****	*****
Mon, Location.: End of Pipe	Minimum:6.0	*****	Maximum:9.0		****	****	
Sample Type; Grab			Ĭ,				
Frequency: Weekly							<u> </u>
BOD, 5-day, percent removal	****	****	97.9	%	****	***	****
Mon. Location.: End of Pipe	本水赤水水。水水水水 水	****	Monthly Avg. Min.:85		*************************************	*****	
Sample Type: Calculated		Ĭ					
Frequency: Monthly							
Suspended Solids, percent	****	卡本本米	97.9	%	*****	****	****
Mon. Location.: End of Pipe	****	海水林水水 经非汇票率	Monthly Avg. Min.:85		*****	***********	
Sample Type: Calculated							
Frequency: Monthly	1	1					

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

Permit Number	Outfall Number
MO0103241	INFIM
Monitoria	ig Perlod
12/1/22	12/31/22
NODI:	****

Parameters	Rep	oorting Requiremen	its	Unit	Reporting i	Requirements	Unit
OD, 5-day, 20 deg. C	****	有年本本	206	mg/L	****	非富水中华	****
	*****	******	Monthly Avg.:Monitoring Required		*****	本本书举***********************************	
ample Type: 24 Hour Composite							
requency: Monthly							****
otal Suspended Solids (TSS)	****	水水水水水	210	mg/L	****	****	*****
ion: Location,: Influent	****	*****	Monthly Avg.:Monitoring Required		· · · · · · · · · · · · · · · · · · ·	*****	
Sample Type: 24 Hour Composite							
requency: Monthly		****	17,4	mg/L	****	本章和李非	****
Nitrogen, ammonia total (as	24.2	*****	17,4	mgB			
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.;Monitoring Required		*****	****	
Sample Type: 24 Hour Composite						ļ	
Frequency: Monthly						****	****
Phosphorus, total (as P)	4.8	华老木本本	4.8	mg/L			_
Mon. Location.: Influent	Daily Max::Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							****
Nitrogen, Kjeldahl, total (as	24.1	****	24.1	mg/I	****	本水水水	****
N) Mon. Location.: Influent	Dally Max. Monitoring Required	*************************************	Monthly Avg.:Monitoring Required		********	*************************************	
Sample Type: 24 Hour Composite	e_						
Frequency: Monthly							****
Nitrite plus nitrate total (as	<0.10	*****	<0.10	mg		****	****
Mon. Location.; Influent	Daily Max.:Monitorin Required	g *****,*****	Monthly Avg.:Monitoring Required	ž į	*****	*****	
Sample Type: 24 Hour Composi	ite						N.
Frequency: Monthly	Ĭ						

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

I certify under penalty of law that this document and all attachs	ients, were prepared under my direction or supervision in accordance	with a system designed to assure that qualified personnel property gather and evaluate
the information submitted. Based on my inquiry of the person of	persons who manage the system, or those persons directly responsible	e for gathering the information, the information submitted is, to the best of tny
knowledge and belief, true, accurate, and complete. I am aware	that there are significant penalties for submitting false information, in	cluding the possibility of fine and imprisonment for knowing violations.
eSignature	Submission Date	Üser Phone Number
Gary Hutchcraft	January 6, 2023	(573)365-0455

LAKE CZARKOSAGE BEACH WAYTP Operation Report

DECEMBER 2002

												-1						glabsty =-		1		F.,											ſ	#ITHE	NEET.	WARREN ST	173)7
					'FC	ANIMALLE	vr.					TON BROWNESSATT	n-MOMEN		printed in the control of the contro			PERSONAL PRINCIPAL S MANAGEMENT		DANA.	PER S	S-10				1 .		DANNAL	7 21	- 13	.	. 1	, 			104:44	
Post Days	Andre (frank)	HTA HA	Party State	No. No. No. No.	ž f	in.	Tudged.	Milanes primary primary	Hearth and	Huya Miran	. H	#145) fri Statistics Received	NATION DE	n mineral moderal reg	MATTERIORIE	ı kî	Marinett Press	a Principal	# 1 24 6+4	Farmer Falors Malors	dering Casso Services (M)	Parties Revised T	55 g	******	Prefred Prefred	d a et/20mm	ž.	E CA	Laury and Erys. Sect.	Manifestory Control	Change Change	(france)	ELECTRICAL STATE OF THE PERSON SERVICE			n.fm newski	E FINA
0.116	0.764	is need.		+]				ğ	7.30 10	2 C	6 29	3,650	120 [01]	7.16 .4:1	5,770	540 149	779 4	1 20	43	an an	T.399 - 7 to						+				 -				
			175	3DH 72D	1.53	748	T(Mi-						n 12	3,580	520 89	7,21 4.5	£650	620 132	7.49 33	1.0	(ES	-0.0		1.8					+								
				1			Ī				7,13	8 3C	el 34	1,050	390 96	7.17 4,0	1,510	393 109	3.18 Y	0.5	035	1		-					-								
					1						7.35 -14	æ .o	9 34	1.410	400 119	7.13 1.1	1,110	490 119	7,14 31	0.3	0.5	5.0	1,432 7,69										+				
			j	1					7		7.34 1.	9 0	0 45	4,412.0	450 97	7.19 3.4	1240	401 104	7,36 3,4	1.0		0.0	1,368 7,68	ļ-					-							-	
			-i	T				16:01	48 2	22.2 < 9.16		0 0	8 52	4,281	489 112	7.26 2.1	4.240	470 114	7.25 1.3	20.	0.5	0.9	13% 7,72		reformant rest to 11 pr	National Section	-	1 2	COLUMN TO	28,15		~~·				40.000	2 1.17
				- -		1					6-75 E	.8 0	0 43	4,284	-110 96	7.41 2.1	a,740	380 132	7,11 2.	0.5	10	0,0	1.369 7.53								 f-					43,000	
+				_	1 -			-	1		7.04	s 0 0:	25 51	4,280	440 93	Teo 2,2	4,700	520 111	6.02 2	0.5	1.0	19,61	1,160 7.45						1-1								
			172	NO 781	5.00	276	7-1-1				7.50 13	9 14: 1	.): Sn	\$.4Fi0	500 112	7.19 1.5	4.430	500 113	729 12	0.5	150	0.0	·r 122 7.69	2.6								 -					
				20.1		1	-				7.19 13	7 R 0	J 45	3,600	460 126	7.35 1:1	4,370	4764 ION	7.95 1.1	1.0	1.0	- 80	1,432 9,71	_		~-				-+							
				-			-				7		(If -40	4,280	5002 \$17	7.48 2.5	4,780	550 132	739 20	1.0	1,0	90	1:527 7.77			mme.	~ 1 444		[_	ļ	4			
					1								4 42	4.690	550 157	7.25 K	2004	181 119	7,21 1.9	1.0	16/5	-0.0	. 1.341 7.65			-	1						1				
			_ 		 		j-		_	1-	·		8 84	1	500 100	7,17	4.510	500 111	7.12	6.5	0.5	0.0	1,424 7,59	1		-				-	-		[-				
			<u>-</u>		 	-		-0.31	_	— <u> </u>			~	1		7.15 2	3,510	530 135	7.14 1.7	1.0	2,0	-0.07	1.995 765		- 11.	·		_ _									
				 -	 				ř				n 30	1-1			4,820	.670 139	730 20	0.5	0.5	0.0	1,580 756		12.	0		[1		1						
								-	f			-	.0 32			748 3.1	4.710	650 138	7.16 25	0.5	9.5	e.c.	1.451 .7.46	1.9	21 11	<u>.: </u>	9.5	_	 _ !	- 1			1,1,1			90,000	7,326
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| Agreed by | 18.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.991.601 | 19.9
