

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
FEBRUARY 16 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Gerry Murawski
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Osage Beach, Phyllis Marose
Alderman, Lake Ozark, Judy Neels
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

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4. REPORTS

Bill List	7-14
Revenue Budget Analysis	15
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Income & Expense Summary	17

January Alliance Report of Operations 19-36

Approval of Flow Charts January 2021

5. OLD BUSINESS

- A. Board Representative update
- B. Discussion about updated inventory list 37-43
- C. Continued discussion regarding the new sludge truck and additional cost

6. NEW BUSINESS

- A. Discussion and possible action for maintenance agreement for the stand by generator 45

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE MARCH 16, 2021 4:00 PM @ LAKE OZARK CITY HALL

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**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – January 19, 2021

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, January 19, 2021 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Phyllis Marose- Present
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Mayor Murawski motioned to approve the meeting minutes of November 17, 2020. His motion was seconded by City Administrator Woods and passed unanimously.

REPORTS:

The November and December, 2020 Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Resident Member Hamner to approve the documents and pay the bills. His motion was seconded by Public Works Director Michalik and was passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for November was 1.091 mgd and for December was .0861 mgd. There was 4.3 inches of precipitation in November and 1.3 inches in December measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 1.8 mg/l and 2.2 mg/l respectively for November and 2.5 mg/l and 2.9 mg/l for December which represents a 98.7 + % or better removal.

The MLSS average for both aeration basins was 4,549 mg/l in November and 4,629 mg/l in December. The total dry weight sludge inventory for November totaled 277,576 pounds and in December totaled 306,620. 18 loads or 66,600 gallons of bio solids was applied in November, with no loads land applied in December. There were 8 tanker loads or 21,500 gallons of septage received in November and 22 loads or 55,000 gallons received for December.

Resident Member Hamner took the opportunity to review his annual Sewer Plant Flow Charts for both Lake Ozark and Osage Beach, as well as a combined chart. Discussion ensued. He noted that the flow

this year appears to be 7 percent down and that this trend may be due to new water saving devices. He also shared his thoughts regarding plant expansion and replacement. He also expressed concern about sludge inventory and the electricity expense to run the aerators. Discussion ensued. Mayor Olivarri thanked Mr. Hamner for his presentation.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Van Dee to approve the Flow Chart for October. Her motion was seconded by Alderman Marose. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Board Representative Update: Public Works Director Michalik advised that his update would be addressed under the next item.
- B. Sludge Truck update: Mr. Hutchcraft advised that he and Public Works Director Michalik had taken a trip to Laurie Missouri to look at an option for disposing of solids via Geotile Dewatering Bags. He advised that the capital expense would be anywhere from \$77,000 up to \$225,000 just for the pad which would be 100 feet by 110 feet. Also, the annual expense would be approximately \$338,000 per year in fees to take the solids to the landfill. After discussion, it was generally agreed that this option was cost prohibitive.

Discussion then turned to a sludge truck. Mr. Hutchcraft advised that he had received 4 bids (Stahly Applicators \$212,419.00; West Mark \$214,227.61; The Larson Group \$212,887.00 and Tri State Truck Center \$185,979.00), 3 of which have Sourcewell government competitive contracts. After reviewing the differences between the trucks, Mr. Hutchcraft recommended the Tri State Truck Center, MACK Granite 64fr w/ 3600 gallon steel tank and MACK motor. A lease purchase option is not available and funding options were discussed. Mayor Murawski motioned approval of Mr. Hutchcraft's recommendation for the MACK truck at a cost not to exceed \$185,979.00. His motion was seconded by Director Michalik, and was then unanimously approved.

- C. Clarifier Project with Landco Enterprises: Mr. Hutchcraft advised that there has not been adequate warmer days and there is too much moisture in the air to complete the work. Director Michalik motioned to extend the contract for 90 days. His motion was seconded by Alderman Neels, and was then unanimously approved.

NEW BUSINESS:

- A. Alliance Water Resources, Base fee – Special Consideration: Mr. Persinger of Alliance advised that the Alliance Contract allows for a 1% CPI, and that they were requesting that the Joint Sewer Board consider a 1.9% increase. This is due to rising costs of operation, including health insurance. Mayor Olivarri noted that he did have some concerns regarding increasing the setting a precedent, as the contract had been negotiated. The Contract can be renegotiated when it expires. Discussion ensued. Director Michalik then motioned to approve the increase. Mayor Murawski seconded the motion. A roll call vote was taken. Ayes: Michalik. Nays: Murawski, Woods, Van Dee, Marose, Neels, Hamner, Olivarri. The motion failed.
- B. Approval of the updated plant inventory and Emergency Response Plan: It was agreed that several non-functional items should be removed from the list prior to it being provided to the insurance carrier. Mr. Hutchcraft will revise the list and it will be brought back to the next

meeting. Discussion turned to the Emergency Response Plan. There were no major changes. City Administrator Wood motioned approval of the plan. Her motion was seconded by Mayor Murawski and was then unanimously approved.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 5:07 pm.

Approved on:

Mayor, John Olivarri

City Clerk, Kathy Vance

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JOINT SEWER BOARD
BILL LIST
FEBRUARY 16, 2021

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 263.32
OPERATING FUND BILLS TO BE PAID:	\$ 108,976.16
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ 5,535.00

TOTAL \$ 114,774.48

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	361	Menards	7055 Metal Bucket	\$ 7.99
4020	366	USA Blue Book	441461 Dip Net	\$ 60.95
4020	366	USA Blue Book	441838 Dip Nets/Pole	\$ 194.38
				\$ -

TOTAL \$ 263.32

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	368	Equipment Replacement Fund	Payment into ER Fund	\$ 10,134.00
4020	369	Majestic Franchising	Cleaning February	\$ 196.17
4020	370	Landco Enterprises	24337 Sandblast & Paint Clarifier #2	\$ 68,400.00
4020	371	Menards	7748 Bungee & cleaning supplies	\$ 44.71
4020	371	Menards	8065 Bucket & ropes	\$ 19.97
4020	371	Menards	8521 Return Cleaner	\$ (6.94)
4020	372	M/C Walmart	Ice maker	\$ 99.00
4170	373	Alliance Water Resources, Inc.	February	\$ 25,720.00
4175	374	Ameren MO	11673321	\$ 3,428.25
4175	374	Ameren MO	98041275	\$ 95.58
4176	375	Ferrellgas	79497 Propane	\$ 716.53
4176	376	AT&T	February	\$ 81.38
4176	377	Republic	February	\$ 47.51
				\$ -

TOTAL \$ 108,976.16

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

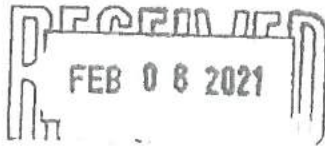
Account	Check	Paid To:	Description:	Amount:
4000				\$ -
				\$ -
				\$ -

TOTAL \$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	1060	JCI Industries	8207446 Flyge Rail Adapter	\$ 535.00
4000	1061	Tri-State Truck Center	12121 Deposit 2022 Mack Granite Trk	\$ 5,000.00
4000				\$ -

TOTAL \$ 5,535.00



LANDCO ENTERPRISES
Sandblast and paint
P.O. Box 275
High Ridge Mo 63049

February 8, 2021

INVOICE: Bill to
Joint Sewer Board, Osage Beach and Lake of the Ozark
Sandblast and painting bill
For the 2020 clarifier sandblast and paint job Clarifier #2
Anderson Rd.

Invoice #24337
Completion date 2/5/2021

Activity	Cost
Sandblast and paint clarifier	\$ 68,400.00
Down payment	\$ -0-
Balance owed:	\$ 68,400.00

SANDBLAST & PAINT CLARIFIER 2

GL Acct#: 4020

Signature: *Paul Hultmark*

Date: 2/8/21

Charles Tamborski Owner
314-713-7884
tamborski@att.net



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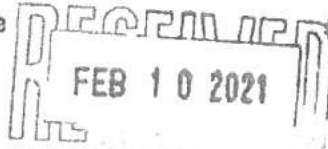
FOCUSED ENERGY. For Life.

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

Current Detail for Statement 02/10/2021

Total Electric Charges **\$3,428.25**

Total Amount Due **\$3,428.25**



AMOUNT DUE \$3,428.25

Due Date 03/04/2021

Amount After Due Date **\$3,479.67**

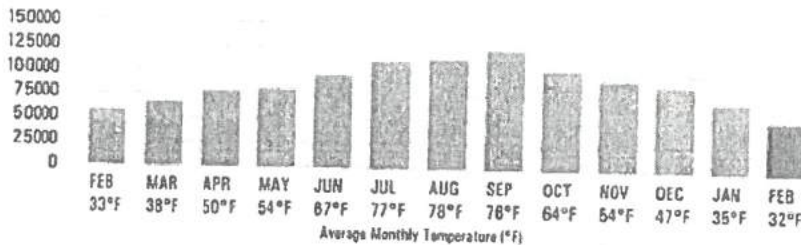
Previous Statement **\$3,869.23**

Total Payments **\$3,869.23**

Payment Received. Thank You.

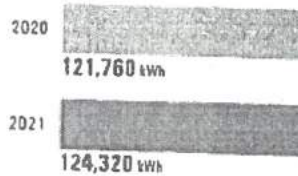
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **2.1% MORE** than last year.



Usage from Jan-Feb for 2020 & 2021

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.

CL Acct#: 4175

Signature: [Signature]

Date: 2/10/21



» See next page for service details.

Keep this portion for your records.

Page 1 of 4



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Amount Due	Due Date
\$3,428.25	March 04, 2021
Delinquent Amount After Due Date	Account Number
\$3,479.67	4580005832

Amount Enclosed \$

>000202 6507638 0002 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

60600000 0045800058302 000003428250 000003428250



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Electric Service Details Service from 01/10/2021 - 02/08/2021 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11073321	01/10 - 02/08	29	Total kWh	Actual	84485.0000	84155.0000	330.0000	160.0000	52800.0000
11073321	01/10 - 02/08	29	Peak kW	Actual	1.1010	0.0000	1.1010	160.0000	176.1600

Usage Summary

Total kWh	52800.0000	Peak kW	176.2000
Total Billing Demand	176.2000	October Winter Base kW	176.2000
Winter Base Demand	176.2000	Base kWh Ratio	1.0000
Base kWh (HUD)	52800.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03580000	\$0.00
Demand Charge	176.20	kW	@ \$ 2.00000000	\$352.40
Base Energy Charge / Hours Used	26,430.00	kWh	@ \$ 0.06090000	\$1,609.59
Base Energy Charge / Hours Used	26,370.00	kWh	@ \$ 0.04520000	\$1,191.92
Customer Charge				\$95.29
Fuel Adjustment Charge	52,800.00	kWh	@ \$ 0.00129689	\$68.48
Energy Efficiency Investment Charge	52,800.00	kWh	@ \$ 0.00432253	\$228.23
Renewable Energy Adjustment	52,800.00	kWh	@ \$ 0.00036551	\$19.30
Total Service Amount				\$3,428.25
Total Electric Charges				\$3,428.25

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
January 25, 2021	\$3,869.23

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

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 Phone Number _____

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

Current Detail for Statement 02/10/2021

Total Electric Charges \$95.58

Total Amount Due \$95.58

FEB 10 2021

AMOUNT DUE \$95.58

Due Date 03/04/2021

Amount After Due Date \$97.01

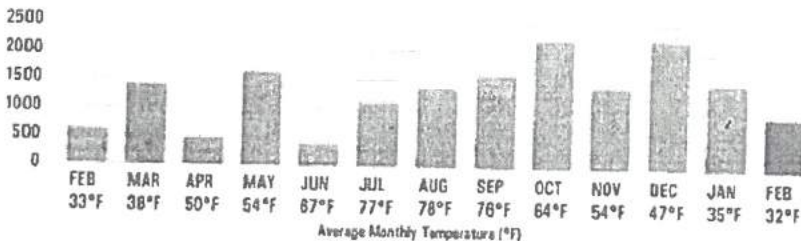
Previous Statement \$140.27

Total Payments \$140.27

Payment Received. Thank You.

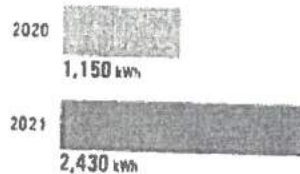
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

This shows how much electric energy you've used this year compared to last year.



Usage from Jan-Feb for 2020 & 2021

Keeping You Informed.

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

GL Acct#: 4175
Signature: [Signature]
Date: 2/10/21
Keep this portion for your records.

See next page for service details.

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Amount Due	Due Date
\$95.58	March 04, 2021
Delinquent Amount After Due Date	Account Number
\$97.01	5580005920
Amount Enclosed \$	

>000323 6507636 0002 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65049-1885

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

50633000 005580005920 000000095560 000000095560



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- Customer Service: 1.877.426.3736

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Electric Service Details Service from 01/10/2021 - 02/08/2021 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	01/10 - 02/08	29	Total kWh	Actual	21348.0000	21253.0000	93.0000	10.0000	930.0000
98041275	01/10 - 02/08	29	Peak kW	Actual	0.7800	0.0000	0.7800	10.0000	7.8000

Usage Summary

Total kWh	930.0000	Winter Base kWh	1800.0000
Current Base kWh	930.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	930.00	kWh	@ \$ 0.07790000	\$72.45
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04490000	\$0.00
Customer Charge				\$19.99
Fuel Adjustment Charge	930.00	kWh	@ \$-0.00129689	\$-1.21
Energy Efficiency Investment Charge	930.00	kWh	@ \$ 0.00431344	\$4.01
Renewable Energy Adjustment	930.00	kWh	@ \$ 0.00036551	\$0.34
Total Service Amount				\$95.58
Total Electric Charges				\$95.58

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
January 25, 2021	\$140.27

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

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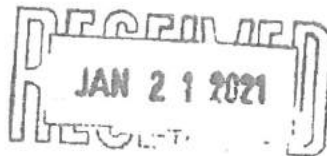
MAIL
STUB & CHECK

TRI-STATE TRUCK CENTER

494 E.H. CRUMP BLVD. MEMPHIS TN 38126

INVOICE

DATE: January 21, 2021
INVOICE # 12121
FOR: new mack dep



Bill To:

Lake Ozark and Osage Beach Joint Sewer Board
P.O Box 1985 / #3 Anderson Rd.
Lake Ozark, MO 65049

DESCRIPTION	AMOUNT
Deposit on 2022 Mack Granite Sludge Truck	\$ 5,000 00
NEW SLUDGE TRUCK DOWN PAYMENT	
GL Acct#: 4000	
Signature: <i>[Signature]</i>	
Date: 1/21/21	
TOTAL	\$ 5,000.00

PURCHASER _____

Tri-State Truck Center, Inc. Springfield MO

☐ NEW ☐ USED ☒ MUNICIPAL ☐ WHOLESALE

PURCHASER'S NAME:	Lake Ozark and Osage Beach Joint Sewer Board	OWNER CONTACT:	
PURCHASER'S ADDRESS:	PO Box 1985	BUSINESS PHONE:	
CITY, STATE, & ZIP:	Lake Ozark, MO 65049	RESIDENCE PHONE:	
		EMAIL:	

VEHICLE BEING PURCHASED

STOCK NO:	TBD	VIN:	TBD	COLOR:	White
YEAR:	22	MAKE:	Mack	MILEAGE:	
MODEL OR SERIES:	Granite	BODY TYPE:	Sludge Truck	DRIVE OUT TAG NEEDED:	☐ YES ☐ NO
INVOICE DATE:	1/20/2021	SALESMAN:	Noah Gates		
EQUIP DESCRIPTION:	Crump Sludge Body	EQUIP SERIAL NUMBER:			

ADDITIONAL TRUCKS/EQUIPMENT

TRUCK VIN:	MILEAGE:	EQUIP DESCRIPTION:	EQUIP SERIAL NO:	TRUCK VIN:	MILEAGE:	EQUIP DESCRIPTION:	EQUIP SERIAL NO:

USED VEHICLE TRADED IN AND/OR OTHER CREDIT

YEAR:		MAKE OF TRADE-IN:		TAX EXEMPT:	☒ YES
MODEL OR SERIES:		BODY TYPE:		TAX EXEMPT ICC NO:	
COLOR:		ENG. TYPE:		RESALE TAX NO:	
VIN:				MISSISSIPPI IRP NO:	
APPRAISED BY:					
I certify the odometer reading on my above trade reads				miles	
The odometer reading is actual / correct:				☒ YES ☐ NO	

FINANCIAL INFORMATION

BALANCE OWED TO:		CASH PRICE:	\$ 185,979.00
ADDRESS:		STATE SALES TAX (TN AND MS ONLY):	\$ -
ACCOUNT NUMBER:		LOCAL TAX (TN ONLY):	\$ -
		FEDERAL RETAIL EXCISE TAX:	\$ -
USED TRADE-IN ALLOWANCE:	\$ -	TIRE CREDIT:	\$ -
BALANCE OWED ON TRADE-IN:	\$ -	DEALER SERVICE AND HANDLING FEE:	\$ -
NET ALLOWANCE ON USED TRADE-IN:	\$ -	LICENSE LICENSE TRANSFER:	\$ -
DEPOSIT OR CREDIT BALANCE:	\$ 5,000.00	TITLE, REGISTRATION FEE:	\$ -
CASH WITH ORDER:	\$ -	TOTAL PRICE OF UNIT:	\$ 185,979.00
TOTAL CREDIT:	\$ 5,000.00	TOTAL CREDIT:	\$ 5,000.00

LIEN HOLDER INFORMATION

NAME:		CASH BALANCE PLUS DELIVERY:	\$ 180,979.00
ADDRESS:		FRE Exempt Items	
TRANSACTION TYPE:	☐ CASH ☒ FINANCE ☐ LEASE	Amount:	\$ -
TERMS:	APR:		

WARRANTY DISCLAIMER

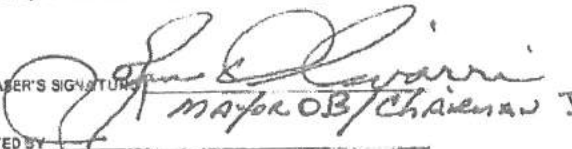
☒ DISCLAIMER DOES APPLY

☐ DISCLAIMER DOES NOT

We, the Seller, hereby expressly disclaim all warranties, either expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, and we neither assume nor authorize any other person to assume for us any liability in connection with the Sale of the vehicle. The disclaimer of Warranties does not affect the Manufacturer's Warranty by the Selling Dealer.

ADDITIONAL NOTES

*Purchaser by his execution of the order acknowledges that he has read its terms and conditions and has received a true copy of this order.

PURCHASER'S SIGNATURE: 
ACCEPTED BY: _____

DATE: 1-20-21
TITLE: _____

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

Account Number	Account Name	1/31/2021					Percent YTD
		2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 1/31/2021	2021 January Revenue	
3020	Osage Beach	475,091.53	475,836.10	473,000.00	38,689.20	38,689.20	8%
3010	Lake Ozark	74,908.46	74,163.90	77,000.00	7,144.13	7,144.13	9%
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	549.16	549.16	27%
3060	Waste Haulers' Fee	26,260.00	39,320.00	36,000.00	8,220.00	8,220.00	23%
Total Operating Fund		580,546.78	597,839.49	588,000.00	54,602.49	54,602.49	9%
E/R Fund Income		9,001.77	8,955.85	6,000.00	338.67	338.67	6%
TOTAL INCOME		589,548.55	606,795.34	594,000.00	54,941.16	54,941.16	9%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
1/31/2021

Account Number	Account Name	2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 1/31/2021	2021 January Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.00	71,604.00	121,606.00	10,134.00	10,134.00	8%
4020	*Maintenance & Repair	104,062.97	26,299.39	36,800.00	1,903.02	1,903.02	5%
4140	Insurance	18,761.00	19,865.00	19,200.00	0.00	0.00	0%
4150	Vehicle Repair/Maint	5,479.60	12,479.74	8,000.00	17.98	17.98	0%
4170	Contract Management	299,592.00	305,580.00	314,752.00	25,720.00	25,720.00	8%
4175	Electric	73,276.87	75,077.36	75,000.00	4,009.50	4,009.50	5%
4176	Utilities Misc.	3,717.52	2,485.59	3,500.00	119.24	119.24	3%
4190	Bank Charges	176.00	32.60	0.00	0.00	0.00	0%
4200	Audit	2,400.00	2,648.50	2,600.00	0.00	0.00	0%
4240	Capitol Purchases	145,247.00	0.00	500.00	0.00	0.00	0%
	Totals	694,316.96	516,072.18	581,958.00	41,903.74	41,903.74	7%
	**E/R Expenses	41,280.51	85,258.27	221,000.00	6,861.60	6,861.60	3%
	TOTAL EXPENSES	735,597.47	601,330.45	802,958.00	48,765.34	48,765.34	6%

2020 CARRY

*Maintenance & Repair

Accounting - Qu ckbooks	300.00
Auto Dialer Yrly Software Fee	500.00
Regular Maintenance	15,000.00
UV Spare Parts	10,000.00
Duck ng skimmer arm elec repair	5,000.00
Rock for Road	2,000.00
Chainlink fence repa r	4,000.00
Sandblast & paint clarifier #2	
	36,800.00

**Equipment & Replacement

Replace Pista Grit Cart w/machine work	3,000.00
Replace wooden doors w/fiberglass	2,000.00
Rebuild 3 RAS pumps	10,000.00
Replaae lawn mower	6,000.00
Sludge Truck	200,000.00
	221,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
1/31/2021

Beginning Balance	342,319.75
Income - Osage Beach	38,689.20
Income - Lake Ozark	7,144.13
Income - Other	-
Income - Waste Haulers' Fees	8,220.00
Interest - Checking	3.40
Income - CD Interest	545.76
Transfers From E/R Fund	-
Transfers to E/R Fund	(10,134.00)
Expenses	(31,769.74)
Ending Fund Balance	355,018.50
Central Bank - NOW Acct.	136,873.19
	-
CD First Bank of the Lake, 2/20/21 #101318432	105,989.80
CD First Bank of the Lake, 4/22/21 #101318433	112,155.51
	-
Outstanding Checks:	-
	355,018.50

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
1/31/2021

Beginning Balance	532,422.72
Interest - Checking	13.59
Income - CD Interest	325.08
Transfers to E/R Fund	10,134.00
Income - Miscellaneous	-
Expenses	(6,861.60)
Ending Fund Balance	536,033.79
First Bank of the Lake - Money Mkt.	53,243.83
CD First Bank of the Lake, 11/07/21 #101318434	270,000.00
CD First Bank of the Lake, 2/20/21 #101318431	104,085.03
CD First Bank of the Lake, 7/30/21 #101318430	108,704.93
	-
Outstanding Checks:	-
	536,033.79

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**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 January 2021

Submitted by Alliance Water Resources, Inc. for the

February 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	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	3.2	2.6	N/A	0.0		0.06	< 4.9	< 1.0
Peak Day	4.9	4.5	7.8	0.0		0.12	< 4.9	< 1.0
Percent Removal	98.7	99.0	N/A	N/A		N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		1.1	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		6.0	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.063 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 66045 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.

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

Bio-solids inventory in the storage tanks at the end of the month was 472,500 gallons with a level of 7.0 feet in Tank 1 and 3.5 feet in Tank 2.

WASTEHAULERS

The plant received 83 loads of septage during the month totaling 205,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- The Clarifier paint contractor was here and put the final coating for under the water level on the 21st of January.

SAFETY

- We conducted our monthly Safety Meeting on Personal Protective Equipment on the 13th of January and had a Tailgate Safety Meeting on Violence in the Workplace on the 28th of January.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the USEPA Biosolids Annual Report on the 3rd of February.
- We filled out the new EDMR on the EPA MoGEM website on the 4th of February and attached a copy of the completed MDNR Form S Sludge Report.

MISCELLANEOUS AND RECOMMENDATIONS

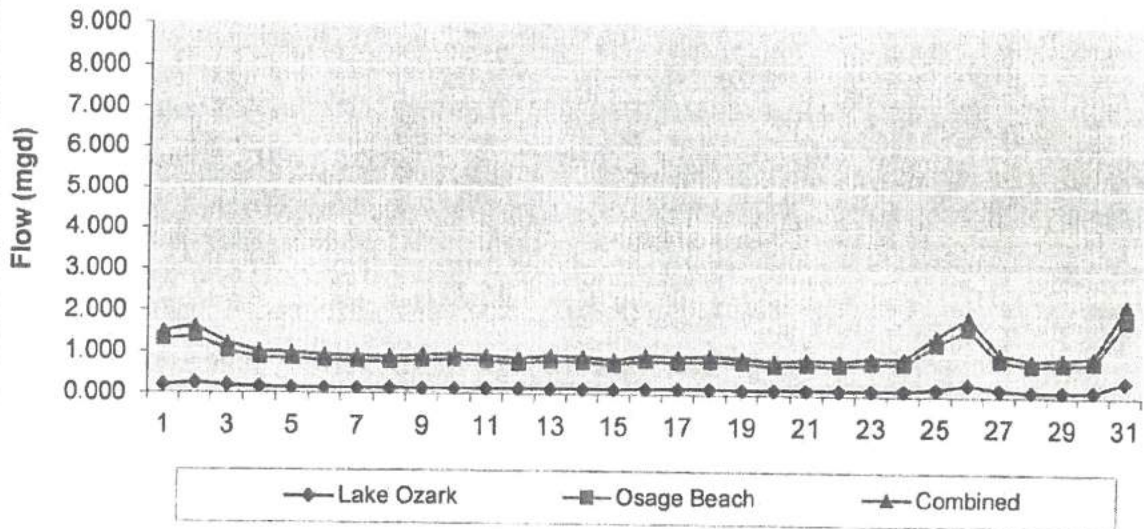
- We received confirmation of the truck, tank, and accessories order on the 27th of January from Noah with Tri-State Truck Center that the truck build day is 4/29/21.
- You will find an attached updated inventory list with the six items that were removed that are listed below.
 - 1 – Craftsman leaf blower
 - 1 – Stihl weed eater
 - 1 – Kawasaki weed eater
 - 1 – Centrifuge
 - 1 – YSI 5905 BOD meter & probe
 - 1 – Vac pump rebuild kit for 1600 gal Field gummy sludge truck

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF January 2021

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Jan	1	0.199	1.310	1.509	13.2	86.8						
2-Jan	0.5	0.249	1.380	1.629	15.3	84.7						
3-Jan	0.25	0.189	1.027	1.216	15.5	84.5						
4-Jan	0.25	0.157	0.864	1.021	15.4	84.6						
5-Jan	0	0.137	0.853	0.990	13.8	86.2						
6-Jan	0	0.136	0.798	0.934	14.6	85.4						
7-Jan	0	0.137	0.784	0.921	14.9	85.1						
8-Jan	0	0.138	0.765	0.903	15.3	84.7	215	200	230	128	170	188
9-Jan	0	0.130	0.807	0.937	13.9	86.1						
10-Jan	0	0.132	0.831	0.963	13.7	86.3						
11-Jan	0	0.139	0.797	0.936	14.9	85.1						
12-Jan	0	0.131	0.736	0.867	15.1	84.9						
13-Jan	0	0.130	0.798	0.928	14.0	86.0						
14-Jan	0	0.126	0.779	0.905	13.9	86.1						
15-Jan	0	0.127	0.708	0.835	15.2	84.8	218	200	280	142	112	262
16-Jan	0.25	0.136	0.811	0.947	14.4	85.6						
17-Jan	0	0.139	0.777	0.916	15.2	84.8						
18-Jan	0	0.139	0.806	0.945	14.7	85.3						
19-Jan	0	0.121	0.767	0.888	13.6	86.4						
20-Jan	0	0.124	0.696	0.820	15.1	84.9						
21-Jan	0	0.126	0.735	0.861	14.6	85.4						
22-Jan	0	0.124	0.708	0.832	14.9	85.1	285	268	248	208	178	256
23-Jan	0	0.124	0.787	0.911	13.6	86.4						
24-Jan	0	0.135	0.778	0.913	14.8	85.2						
25-Jan	1.7	0.181	1.267	1.448	12.5	87.5						
26-Jan	0.25	0.294	1.639	1.933	15.2	84.8						
27-Jan	0.25	0.169	0.870	1.039	16.3	83.7						
28-Jan	0.25	0.129	0.750	0.879	14.7	85.3						
29-Jan	0	0.137	0.789	0.926	14.8	85.2	138	170	203	100	140	308
30-Jan	0	0.145	0.834	0.979	14.8	85.2						
31-Jan	1.25	0.375	1.856	2.231	16.8	83.2						
SUM	6.0	4.855	28.107	32.962								
AVG		0.157	0.907	1.063	15	85	214	210	240	145	150	254
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

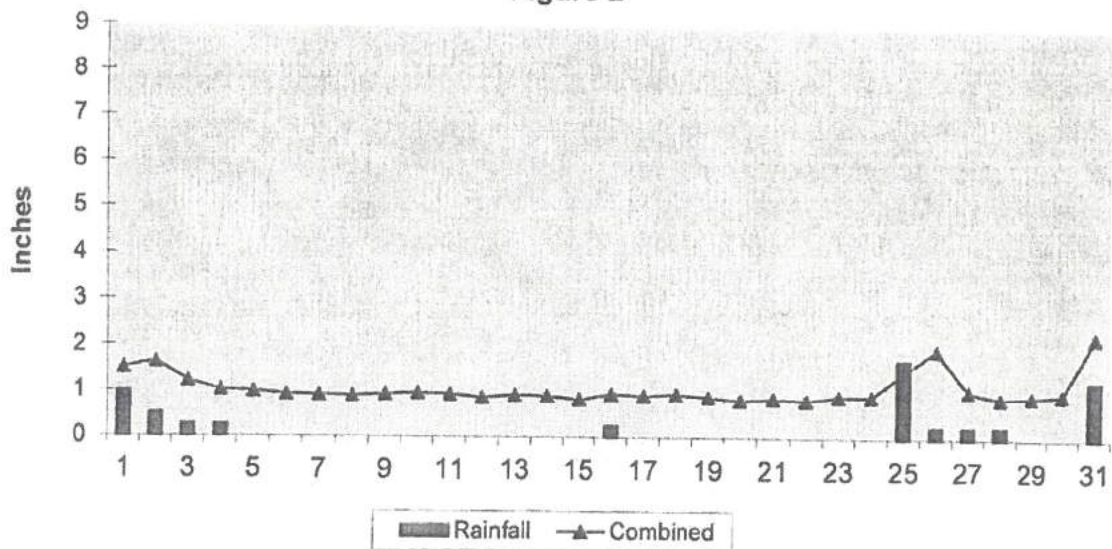
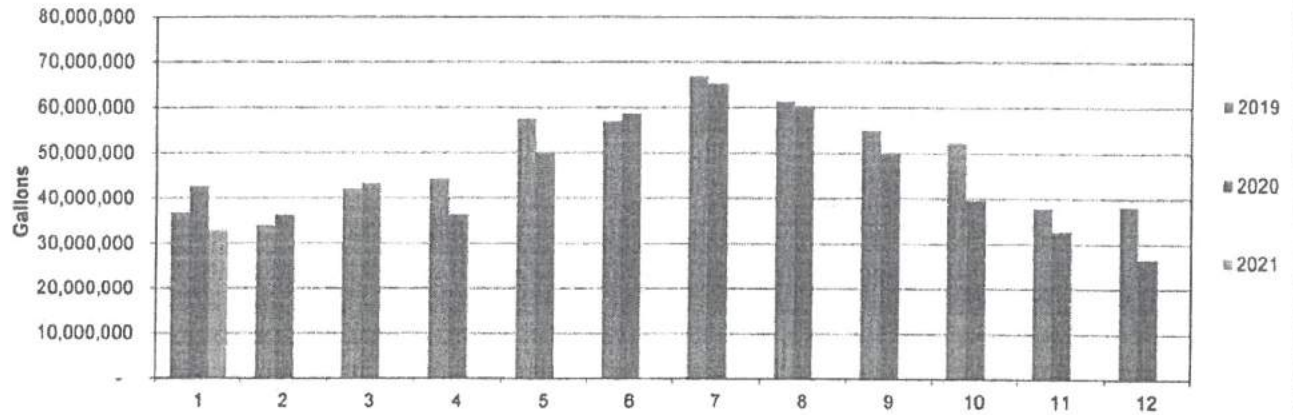


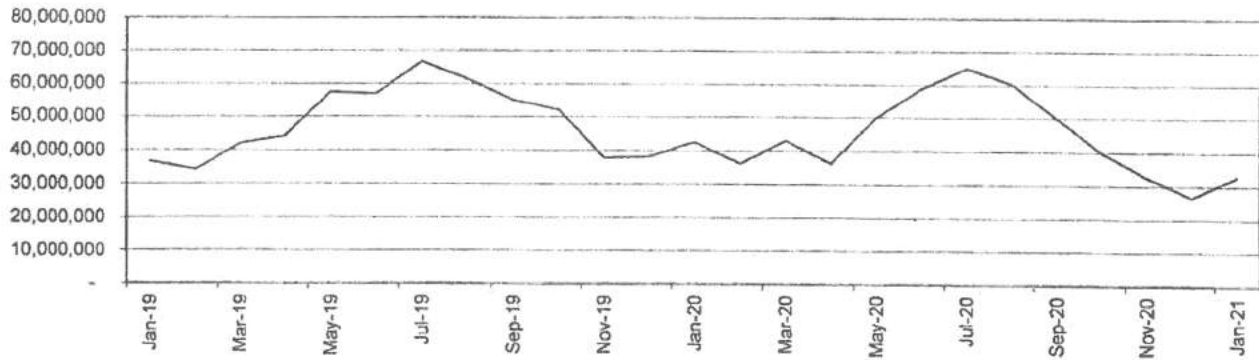
TABLE B
JOINT SEWER BOARD
Monthly Flows

2019	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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	100%
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%
December	1.8	33,575,000	88%	4,708,000	12%	38,283,000	100%
	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	100%
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%	39,621,000	100%
November	4.3	27,630,000	84%	5,102,000	16%	32,732,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	26,698,000	100%
	61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%

Monthly Influent Flow
Figure 3A

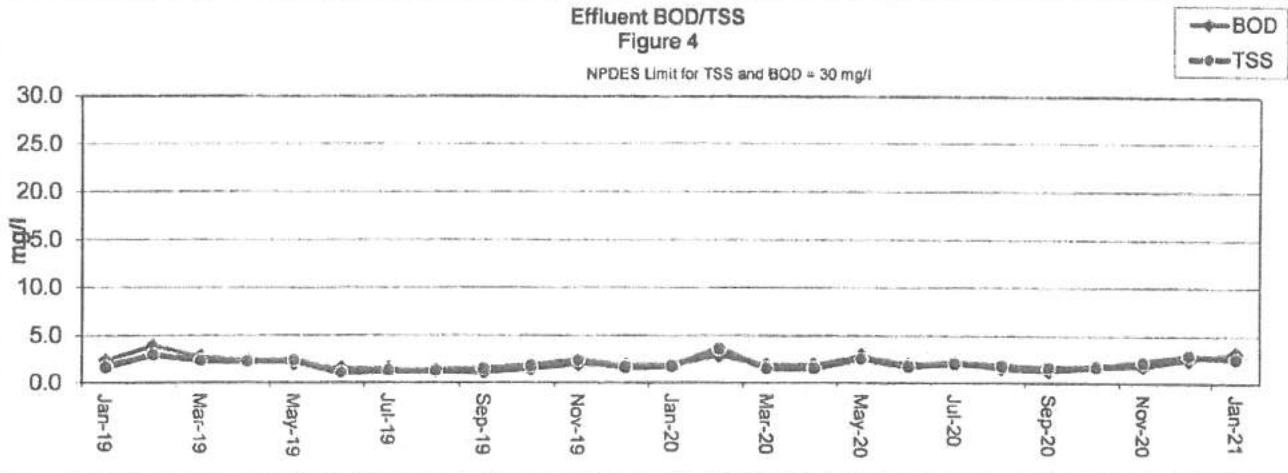


Monthly Influent Flow
Figure 3B

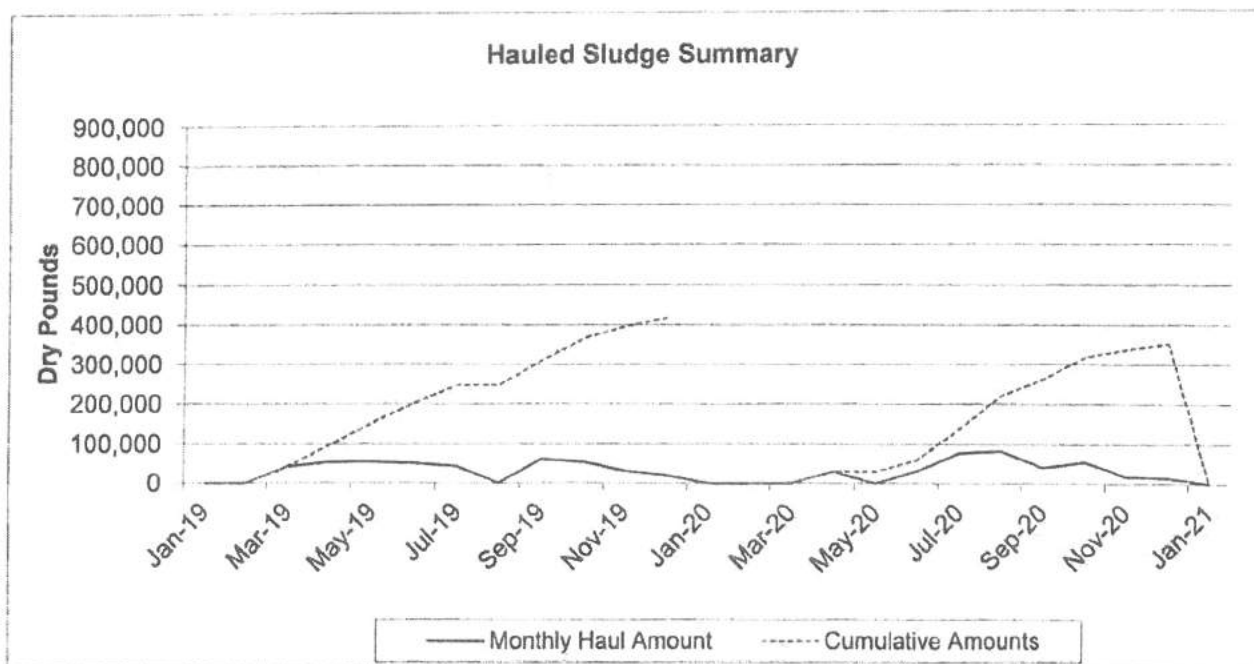
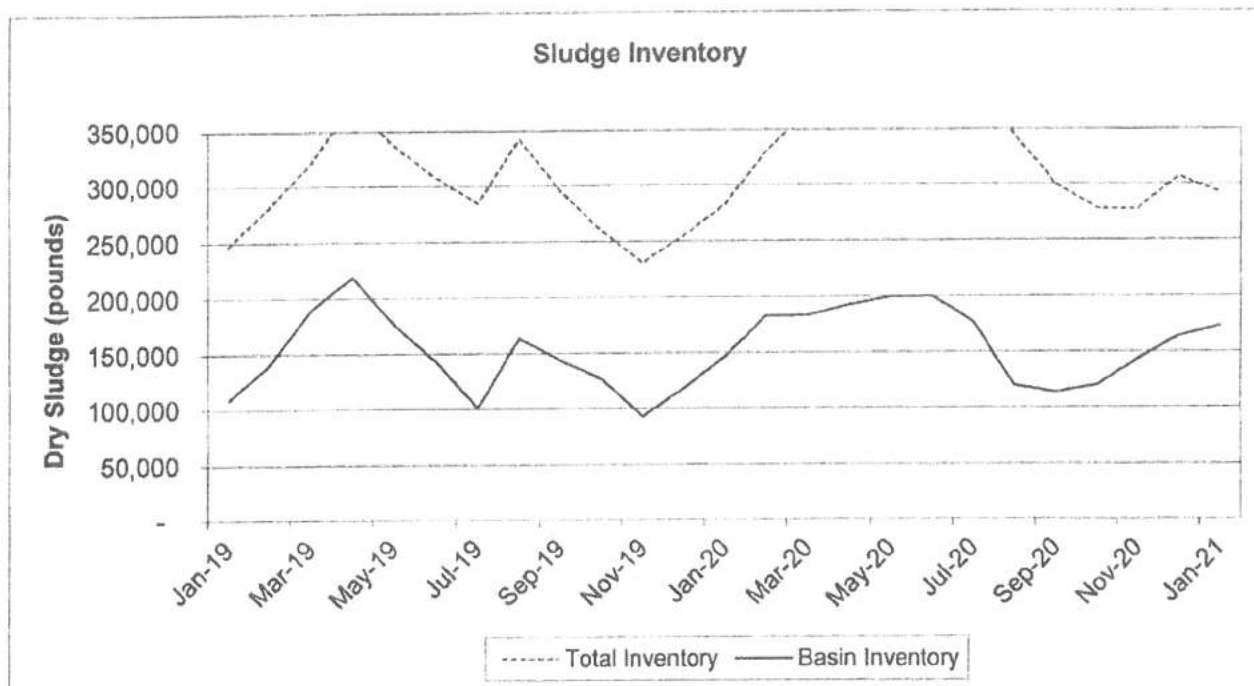


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



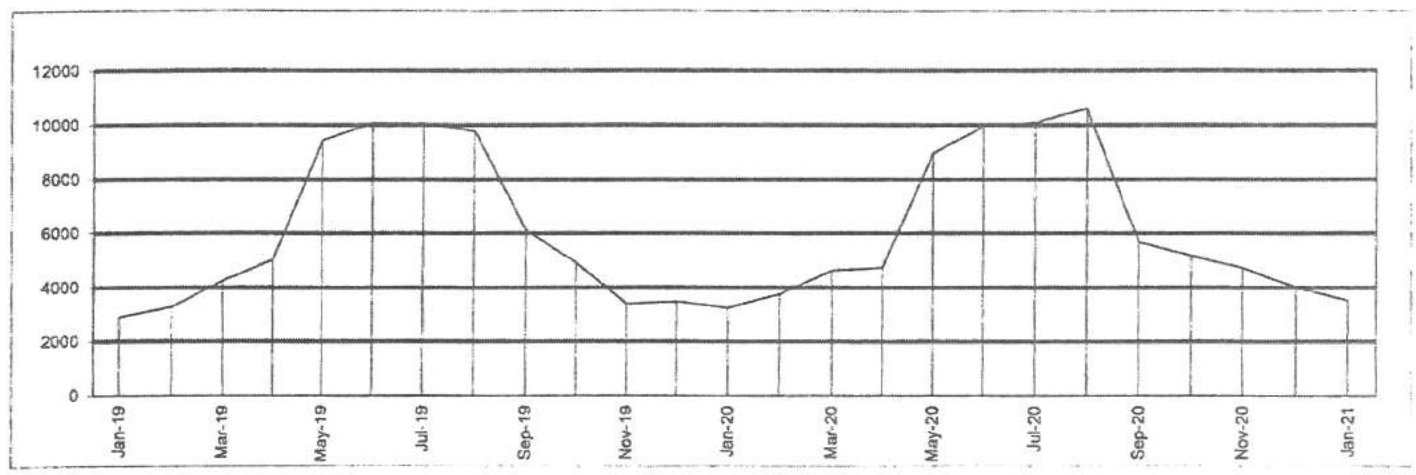
	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-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	138,412	0.00457	246,874	19	46,500
Feb-19	0	-	0	3.4%	-	6.0	5.0	0.0	495,000	140,382	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503	31	79,500
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	595,000	169,462	0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033	0	21,500
Apr-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	0.00513	375,923	23	61,500
May-19	49	181,300	54,886	3.6%	151,945	8.0	5.0	0.0	585,000	177,038	3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113	12	25,500
Jun-19	44	162,800	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	163,886	0.00521	307,267	19	47,500
Jul-19	37	136,900	43,633	3.8%	247,450	3.0	4.0	0.0	315,000	100,397	2.0	3.0	0.5	6,060	5,830	3,710,524	183,973	0.00595	284,370	36	84,000
Aug-19	0	-	0	3.8%	247,450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	5,660	5,680	3,793,810	177,982	0.00567	341,988	29	72,500
Sep-19	58	214,600	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00469	294,741	22	55,000
Oct-19	50	185,000	54,742	3.5%	364,679	7.5	2.0	0.0	427,500	126,498	2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00426	259,414	40	97,000
Nov-19	29	107,300	31,629	3.5%	396,308	3.5	3.5	0.0	315,000	92,853	3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,968	15	36,000
Dec-19	17	62,900	20,643	3.9%	416,951	6.0	2.0	0.0	360,000	118,148	1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044	14	32,000
Jan-20	0	-	0	3.9%	-	6.0	4.0	0.0	450,000	146,367	1.0	1.5	0.0	4,260	4,690	3,644,405	138,015	0.00448	282,382	16	34,100
Feb-20	0	-	0	3.9%	-	6.5	6.0	0.0	562,500	182,959	3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676	23	57,000
Mar-20	0	-	0	3.9%	-	5.5	7.0	0.0	562,500	182,959	2.0	5.0	1.0	5,760	5,940	3,757,762	183,825	0.00585	366,784	25	64,500
Apr-20	25	92,500	29,315	3.8%	29,315	6.0	7.5	0.0	607,500	192,528	1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742	39	107,000
May-20	0	-	0	3.8%	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	191,322	0.00606	390,981	35	83,000
Jun-20	25	92,500	31,660	4.1%	60,975	6.0	7.0	0.0	585,000	200,228	6.0	7.0	0.5	7,050	7,120	3,852,620	227,647	0.00709	427,875	6	18,000
Jul-20	69	255,300	77,268	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	408,656	88	208,000
Aug-20	76	281,200	83,286	3.6%	221,529	5.0	4.0	0.0	405,000	119,953	6.0	6.0	1.0	6,530	7,400	3,856,572	224,021	0.00697	343,974	67	158,000
Sep-20	38	140,600	41,627	3.5%	263,156	4.0	4.5	0.0	382,500	113,246	1.0	1.0	0.5	6,000	6,200	3,657,238	186,058	0.0061	299,304	45	104,500
Oct-20	45	166,500	55,298	4.0%	318,454	5.0	3.0	0.0	360,000	119,563	1.0	1.0	1.0	4,980	5,070	3,678,952	158,015	0.00515	277,576	16	32,000
Nov-20	18	66,600	19,255	3.5%	337,709	5.0	6.0	0.0	495,000	143,111	1.0	0.0	0.5	4,780	4,080	3,638,476	134,465	0.00443	277,576	16	36,000
Dec-20	11	40,700	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	3,638,476	142,508	0.0047	306,620	33	69,000
Jan-21	0	-	0	4.4%	-	7.0	3.5	0.0	472,500	173,388	6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0038	292,077	83	205,500



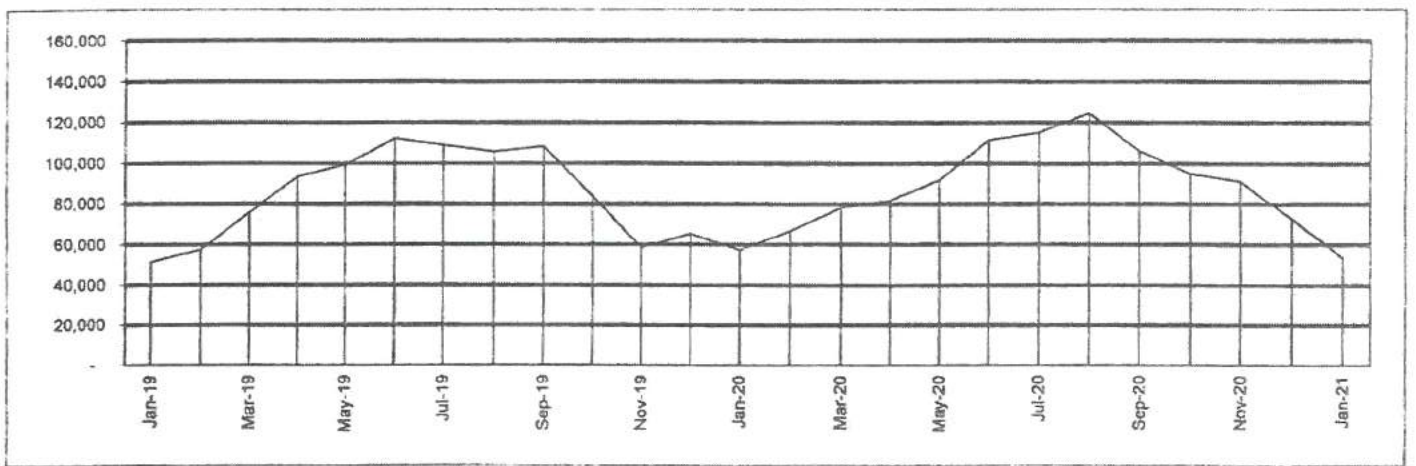
28

	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	108,680
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

Electric Cost



Kilowatts Used





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

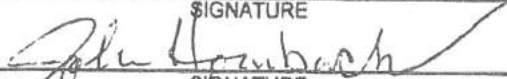
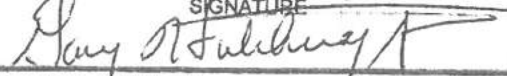
NAME OF FACILITY						LOCATION ADDRESS & CITY						COUNTY/REGION			
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road						Miller/SWRO			
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Jan-21		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT					EFFLUENT								% Removal		
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L	
1	6.7			11.8	2.130	7.1				4.5		9.6			
2	7.0			10.9	2.435	7.2				5.6		8.9			
3	6.9			11.7	1.874	7.0				5.5		9.0			
4	7.3			11.3	1.669	7.6				6.0		9.8			
5	7.0			12.1	1.643	7.8				7.3		9.9			
6	6.9			11.7	1.431	7.1				6.9		9.7			
7	7.1			12.6	1.503	7.3			0.03	6.7		9.5			
8	7.1	230	188	12.1	1.513	7.3	2.1	1.7		6.6		9.2	99.1	99.1	
9	7.1			11.0	1.519	7.2				6.9		8.7			
10	7.2			10.2	1.556	7.3				6.9		8.3			
11	7.2			10.5	1.492	7.4				7.1		8.6			
12	6.8			11.6	1.462	7.1				7.2		8.7			
13	7.0			11.7	1.497	7.2				6.7		8.8			
14	7.2			12.7	1.455	7.3			0.03	6.8		10.4			
15	7.3	280	262	11.1	1.402	7.5	2.3	1.4		6.9		8.8	99.2	99.5	
16	7.2			11.4	1.551	7.4				7.1		8.7			
17	7.3			11.2	1.519	7.4				7.4		8.3			
18	7.2			10.5	1.510	7.4				7.0		8.5			
19	7.1			11.7	1.484	7.6				7.7		9.1			
20	6.9			11.5	1.280	7.2				7.0		8.8			
21	6.9			12.6	1.440	7.4			0.12	6.7		9.4			
22	7.0	248	256	11.1	1.376	7.5	3.4	2.8		6.6		8.5	98.6	98.9	
23	7.0			9.1	1.512	7.3				8.0		7.6			
24	7.0			11.0	1.486	7.2				6.3		8.8			
25	7.2			10.7	2.123	7.4				5.4		9.2			
26	7.1			11.3	2.448	7.7				5.7		9.8			
27	6.9			9.7	1.702	7.4				7.5		7.8			
28	6.9			10.6	1.488	7.1			0.07	7.1		8.5			
29	7.0	203	308	10.6	1.587	7.1	4.9	4.5		6.8		8.4	97.6	98.5	
30	7.0			11.9	1.565	6.9				6.4		9.6			
31	6.8			11.0	2.908	7.4				6.6		9.2			
Total					51.560										
Avg		240	254	11.3	1.663		3.2	2.6	0.06	6.7	0.0	9.0	98.6	99.0	
Min	6.7	203	188	9.1	1.280	6.9	2.1	1.4	0.03	4.5	0.0	7.6	97.6	98.5	
Max	7.3	280	308	12.7	2.908	7.8	4.9	4.5	0.12	8.0	0.0	10.4	99.2	99.5	

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11	< 4.9	< 1.0	250	305	2.1	< 0.10	11.7	0.52	< 5.0	< 10.0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 4.9	< 1.0	250	305	2.1	< 0.10	11.7	0.52	< 5.0	< 10.0
Avg	< 4.9	< 1.0	250	305	2.1	< 0.10	11.7	0.52	< 5.0	< 10.0
Min	< 4.9	< 1.0	250	305	2.1	< 0.10	11.7	0.52	< 5.0	< 10.0
Max	< 4.9	< 1.0	250	305	2.1	< 0.10	11.7	0.52	< 5.0	< 10.0

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside * Ambient Temp ° F	*RAIN Inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		1.9	4,330	600	10.1	2.0	4,480	650	10.5	35	1.0	7:30
2		1.8	4,810	800	9.7	2.0	4,430	750	9.8	33	0.5	7:30
3		1.6	5,140	800	9.8	2.6	4,200	700	10.6	33	0.25	7:30
4		2.1	5,910	800	10.0	3.4	4,630	750	10.3	36	0.25	7:30
5		4.1	5,760	850	9.5	6.1	4,710	800	10.1	28	0	7:30
6		1.7	5,300	800	10.0	2.2	4,350	700	10.5	36	0	7:30
7		1.2	5,220	850	10.0	2.2	4,210	650	10.5	38	0	7:30
8		1.7	4,850	800	9.9	2.3	4,230	750	10.0	34	0	7:30
9		1.8	4,900	800	8.9	2.9	4,060	750	9.1	34	0	7:30
10		2.0	4,530	800	8.6	3.5	4,160	730	8.6	31	0	7:30
11		1.8	4,710	800	8.5	2.6	4,110	720	8.5	33	0	7:30
12		1.8	4,610	750	9.0	2.3	4,080	750	9.4	27	0	7:30
13		1.8	4,590	750	9.5	2.4	4,050	600	9.9	32	0	7:30
14		1.7	4,650	700	10.8	3.0	4,130	600	10.8	47	0	7:30
15		1.8	4,630	750	9.6	3.1	4,060	700	9.9	35	0	7:30
16		1.8	4,570	750	9.2	2.6	3,960	700	9.8	35	0.3	7:30
17		1.8	4,520	750	9.1	3.6	4,030	700	9.3	31	0	7:30
18		1.9	4,610	750	8.9	2.6	3,810	550	9.2	30	0	7:30
19		2.4	6,140	900	9.3	4.6	4,660	750	9.5	36	0	7:30
20		1.6	5,250	800	8.7	2.8	4,540	750	9.2	26	0	7:30
21		1.7	5,010	850	10.2	1.9	4,650	750	10.3	38	0	7:30
22		1.7	5,030	800	9.3	2.1	4,590	800	9.3	28	0	7:30
23		4.9	6,070	910	7.2	5.8	5,270	860	7.5	54	0	7:30
24		1.6	5,830	900	8.7	2.2	4,850	820	8.8	39	0	7:30
25		1.1	4,720	730	9.5	1.3	4,300	670	9.4	41	1.7	7:30
26		1.3	5,840	900	10.2	2.3	5,120	850	10.4	38	0.3	7:30
27		5.0	6,010	900	9.1	6.5	5,460	850	9.5	32	0.3	7:30
28		1.8	5,620	850	8.5	2.4	5,020	850	9.3	28	0.3	7:30
29		1.6	5,180	850	9.3	2.2	5,060	850	9.4	30	0	7:30
30		1.6	5,170	800	9.9	1.6	4,590	750	10.2	45	0	7:30
31		1.8	3,810	750	9.9	1.7	3,780	600	11.1	37	1.25	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	2/4/2021
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	2/4/2021

*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	001A
Monitoring Period	
1/1/21	1/31/21
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C	*****	4.9	3.2	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	2.908	1.663	Mgal/d
Mon. Location.: End of Pipe	*****;*****	*****;*****	*****;*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured							
Frequency: Daily							
pH	6.9	*****	7.8	SU	*****	*****	*****
Mon. Location.: End of Pipe	Minimum:6.5	*****;*****	Maximum:9.0		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	4.5	2.6	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Nitrogen, ammonia total (as N)	0.12	*****	0.06	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:11.5	*****;*****	Monthly Avg.:2.2		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Weekly							
Oil and grease (soxhlet extr.) tot.	<4.9	*****	<4.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:15	*****;*****	Monthly Avg.:10		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Monthly							
Selenium (Se), total recoverable	<1.0	*****	<1.0	ug/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:9.1	*****;*****	Monthly Avg.:3.6		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Monthly							
BOD, 5-day, percent removal	*****	*****	97.6	%	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	*****;*****	Monthly Avg. Min.:85		*****;*****	*****;*****	
Sample Type: Calculated							
Frequency: Monthly							

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

Suspended Solids, percent removal	*****	*****	98.5	%	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	*****;*****	Monthly Avg. Min.:85		*****;*****	*****;*****	
Sample Type: Calculated							
Frequency: Monthly							
Comments:							

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

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

Permit Number	Outfall Number
MO0103241	SM2A
Monitoring Period	
1/1/21	1/31/21
NODI:	*****

Parameters	Reporting Requirements		Unit	Reporting Requirements		Unit
Hardness, total (as CaCO3)	305	*****	305	mg/L	*****	*****
Mon. Location.: Instream Monitoring	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required	*****;*****	*****;*****	*****
Sample Type: Grab						
Frequency: Monthly						
Comments:						

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

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

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

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

eSignature Gary Hutchcraft	Submission Date February 4, 2021	User Phone Number (573)365-0455
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FOR JANUARY 2021

Use following abbreviations: *Ratio*, *N*-value, *Density*, *C*-factor, *PC*-percentage

Date 2/4/2021

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2020</u>
1	1 - Craftsman 3 drawer tool box	
2	1 - Craftsman 5 drawer tool box	
3	1 - Assortment SAE Allen wrenches	
4	1 - Assortment Metric Allen wrenches	
5	1 - 3/8 SAE T Allen wrench	
6	1 - Set 3/8 Allen wrench sockets 1/8 - 1/2	
7	1 - Set SAE & Metric nutdrivers in tool bag	
8	7 - SAE nutdrivers 3/16 - 1/2	
9	7 - Metric nutdrivers 5mm - 11mm	
10	5 - Torx screwdriver assorted sizes	
11	1 - Assortment of straight & Philips screwdrivers	
12	1 - 1/2" straight screwdriver socket	
13	1 - 1/4" deep socket set 4mm - 14mm	
14	1 - 1/4" deep socket set 3/16 - 1/2	
15	1 - 1/4" shallow socket set 4mm - 13mm	
16	1 - 1/4" shallow socket set 5/32 - 1/2 w/ 2 & 3" extensions	
17	1 - 1/4" Ratchet	
18	1 - 40 piece 1/4 & 3/8 socket set, in RAS basement	
19	1 - 3/8" X 1/4" socket adapter	
20	1 - 3/8" deep & shallow socket set 3/8 - 3/4	
21	1 - 3/8" deep socket set 9mm - 19mm	
22	1 - 3/8" Craftsman socket set 3/8 - 13/16	
23	2 - 3/8" 1 1/2" extensions & 1 - 6" ext.	
24	1 - 3/8" Ratchet	
25	4 - 3/8" 6 point sockets 1/4 - 7/16	
26	2 - 3/8" spark plug sockets 5/8 & 13/16	
27	2 - 1/2" Ratchets & 1 set 1/2" extensions 2, 3 & 6"	
28	1 - 1/2" deep socket set 3/8 - 13/16	
29	1 - 1/2" socket shallow socket set 9mm - 21mm	
30	1 - 1/2" socket shallow socket set 7/16 - 1 1/4	
31	6 - KD brand 3/4" sockets, 1 3/8, 1 7/16, 1 1/2, 1 5/8, 1 13/16 & 2 3/4"	
32	1 - 3/4" Breaker bar & 16" extension, True craft	
33	1 - 10 piece ignition wrench set 4mm - 13mm	
34	1 - 10 piece ignition wrench set 5/32 - 7/16	
35	2 - Boxed end wrench's 1/2-9/16 & 5/8-11/16	
36	3 - 3/8, 4 - 7/16, 2 - 11/16, 2 - 3/4, 2 - 13/16, 2 - 7/8 combination wrenches	
37	4 - 15/16, 4 - 1", 3 - 1 1/16, 5 - 1 1/4 & 4 - 1 1/8 comb. wrenches	
38	3 - open end wrenches 7/16-17/32, 5/8-11/16, & 3/4-7/8	
39	1 - Set pm comb. Wrench's 1/4 thru 7/8 in pouch	
40	3 - snap ring pliers	
41	2 - pair channel lock pliers, 1 blue handle & 1 black	
42	2 - pair electrical channel lock pliers, 6 & 10"	
43	1 - set of left handed drill bits	

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2020</u>
44	6 - electrical screwdrivers, 3 straight & 3 philips head	
45	2 - wire strippers	
46	1 - pair lineman pliers	
47	1 - pair needle nose pliers	
48	1 - pair side cutters, 6"	
49	3 - 10" Vise grip pliers, 2 curved jaw & 1 straight	
50	2 - 6" Vise grip pliers, 1 curved & 1 needle jaw	
51	1 - yellow handle tin snips	
52	1 - 12" crescent wrench, Craftsman	
53	3 - pipe wrenches, 18", 24", & 36"	
54	1 - 10" Stanley level	
55	1 - 24" Craftsman level	
56	2 - 25' Task Force tape measures	
57	2 - 6" pocket metal rules	
58	1 - points file	
59	1 - file assortment	
60	1 - rasp file	
61	2 - Concrete trowel	
62	1 - feeler gauge	
63	1 - tool bag	
64	1 - ice pick	
65	1 - punch & chisel set	
66	1 - 2" C clamp & 2 - 4" C clamps	
67	2 - putty knives	
68	1 - parts brush	
69	1 - ball peen hammer	
70	1 - 4lb shop hammer	
71	1 - claw hammer	
72	1 - 10 lb sledge hammer	
73	1 - rubber mallet	
74	1 - hacksaw	
75	3 - wire brushes	
76	1 - tire gauge	
77	1 - 6" square	
78	2 - rag pullers	
79	1 - crow bar	
80	1 - garden rake	
81	1 - round point shovel	
82	1 - flat shovel	
83	1 - 10lb straight bar	
84	1 - pick	
85	1 - anti freeze tester	
86	1 - flat bar	

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021**

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2020</u>
87	1 - Craftsman 28 pc. tap & die set	
88	1 - Black & Decker drill & driver set	
89	1 - 7" carbide masonry drill bit set 3/16 - 3/4	
90	3 - masonry bits, 1/4, 5/16 & 3/8	
91	1 - Black & Decker metal drill bit set, 1/16 to 1/2 & HS bits assorted sizes	
92	2 - gear pullers, 1 large & 1 small	
93	1 - Black & Decker 3/8 variable speed drill	
94	1 - mini copper tubing cutter	
95	1 - PVC cutter	
97	1 - 1/2" Electric Impact Wrench	
98	1 - Sandblaster w/ 24ft of hose & 2 bags of blasting material	
99	1 - Hitachi hammer drill*	

SLUDGE TRUCK TOOLS

100	1 - grease gun
101	1 - 20 piece Stanley SAE Comb. end wrenches 1/4 - 7/8
102	1 - Set Comb. End wrenches 8mm - 18mm
103	1 - Rubber maid tool bag
104	4 - Stanley flathead screwdrivers
105	2 - Stanley phillips screwdrivers
106	AC Delco T20x4" star screwdriver
107	AC Delco 2x1 1/2" phillips screwdriver
108	AC Delco 1/4"x1 1/2" slotted screwdriver
109	13 oz. Wood handle claw hammer
110	RayOVac industrial flashlight
111	25' task force tape measure
112	7 WR vise grip
113	10 WR vise grip
114	Stanley lineman pliers 84-113
115	Stanley wire cutters 84-060
116	Stanley crescent wrench 85-763
117	1 - Set of wheel chocks
118	1 - log chain
119	1 - air hose
120	1 - assortment Buse fuses & 1157 bulbs

MISCELLANEOUS EQUIPMENT

121	1 - Ryobi 18 volt Drill, Circular Saw, Recip saw, Flashlight, Vacuum Combo Kit w/2 batteries
122	1 - Millermatic Wire feed welder w/helmet & gloves
123	1 - 10-3 50ft & 1 - 10-3 100ft Extension cord
124	4 - metal lockers in men's restroom
125	2 - metal lockers in women's restroom
126	1 - plastic mop bucket w/wringer
127	1 - Gorilla ladder MPX-22

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021

MISCELLANEOUS EQUIPMENT

* & X = New 2020

<u>Item No.</u>	<u>Quantity & Item</u>
128	1 - 4' step ladder, fiberglass
129	1 - 6' step ladder, fiberglass
130	10' stepladder, wood
131	24' 300 lb rated extension ladder, aluminum
132	24' 300 lb. rated extension ladder, fiberglass
133	2 - set of plastic saw horses
134	1 - 6"x 10' suction hoses
135	2 - 6" x 25' suction hose
136	1 - 4" x 60' suction hose
137	1 - 4" x 15' discharge hose @ septic unloading station
138	1 - Schumacher battery charger model SE-82-6
139	1 - DieHard 12 volt automatic battery charger/engine starter model 28.71331
140	1 - 100' extension cord
141	1 - 50' extension cord
142	1 - 1 gallon plastic gas cans
143	2 - 5 gallon steel safety gas cans
144	1 - misc. log chains, headwork's tool room
145	3 - 50'x1 1/2" fire hoses with 2 nozzles
146	5 - Garden hoses
147	1 - mechanic creeper
148	1 - Craftsman gas leaf blower
149	1 - Craftsman 4 cycle weed eater
150	1 - cherry picker (engine hoist)
151	1 - 9 gallon portable air tank
152	1 - Campbell Hausfield 26 gallon air compressor
153	1 - CH air drill
154	1 - CH air ratchet
155	1 - CH air grinder
156	1 - CH air impact wrench
157	1 - CH air chisel w/4 chisels
158	1 - air tire inflator
159	1 - Pro-Arc oxy-acc torch kit & tanks
160	1 - Pro-Force 33 paint sprayer
161	1 - 15 gal 12 volt portable sprayer
162	1 - 60gal Ingersoll Rand in UV building
163	1 - 3 ea. grease gun
164	1 - Cowhbian 5" multi bench vise
165	3 - shop vac's
166	2 - drum dollies
167	1 - Commercial Elec. Amp meter, HDSA 500
168	1 - Commercial Elec. Multi meter, HDM 4100
169	2 - insulated fuse pullers, 1 large & 1 small
170	1 - GB circuit tester

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021

MISCELLANEOUS EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2020</u>
171	1 - 3/8 hammer drill	
172	1 - Skil 14.4 drill kit, w/ battery & charger	
173	1 - Black & Decker bench grinder	
174	1 - Black & Decker hand grinder, 4 1/2"	
175	1 - 115V 3/8 VSR Drill/ Driver	
176	1 - propane torch, elec. Start	
177	1 - strap 1 ton come along	
178	2 - chain come alongs, 1 ton & 3 ton	
179	1 - cable come along, 1 ton	
180	1 - 2 ton floor jack	
181	1 - 12 ton high lift jack	
182	2 - yellow air hoses	
183	1 - 100gal. Portable Diesel fuel tank	
184	1 - Fluke T5-1000 Volt/Amp meter	
185	3 - 2 wheel wheel-barrows, 2 are being used for bar sreen tubs	
186	1 - garden cart	
187	1 - Garden power 65ft. 5/8" Auto-Retractable Garden Hose reel	
188	1 - portable hand work light	
189	1 - portable work light stand w/ dual mounted lights	
190	3 - Strong Arm electric winches for clarifier skimmer baskets	
191	1 - Strongway electric hoist for lift station pumps*	
192	1 - AMT 3" trash pump w/wheel kit	
193	1 - 3" 50ft & 1 - 30ft suction/discharge hose w/couplings	X
194	1 - North Star 3000 PSI Steam and Hot Water Pressure Washer	
195	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
196	1 - Chapin Homepro backpack sprayer	

OFFICE INVENTORY

197	1 - wooden desk
198	1 - metal desk
199	4 - Office chairs
200	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer
201	1 - 3 shelf bookshelf
202	1 - PC , w, speaker in monitor, keyboard, and surge arrest---DELL
203	1 - MFC-L2685DW Brother copier / printer
204	1 - conference table
205	27 - folding steel chairs
206	3 - Phones, 2 cradle style & 1 cordless
207	1 - Fellowes paper shredder
208	1 - Bissell vacuum cleaner
209	1 - Emerson TV / VCR Combo (for training)
210	1 - Emerson microwave
211	1 - Magic chef refrigerator
212	1 - Culligan water cooler

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021**

* & X = New 2020

CONSUMABLE MATERIALS

213	2 - 500 Gallon propane tanks, w/ 800 gallons as of 1/8/21	X
214	1 - 700 Gallon diesel fuel tank in Generator, w/ 700 gallons as of 1/8/21	X

VEHICLE'S

215	1 - TRYN SP-575X-1 Mini Pro Tailgate Spreader SN#190730300540SP-575X-1
216	1 - 2018 Ford F-250 w/Knapplied snow blade vin# 1FTBF2B66JEC64283
217	1 - 1994 Volvo White GMC Sludge Truck vin# 4V2JCBE75R833094
218	1 - Kabota ZG123S 48" Zero-Turn Mower

LABORATORY EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>
219	1 - OHAUS adventurer analytical balance
220	1 - Orion & 1 no name brand bench top electrode arms
221	1 - USA Bluebook electric stirrer
222	3 - Isco Auto samplers, 1 - NI-CAD batteries, 1 small & 1 larger charger
223	1 - Isco Auto sampler pump
224	1 - Hach Sension+ MM340 Ammonia meter & probe
225	1 - Hach HQ411D pH/mv meter & probe with stand
226	1 - Allied stirrer and hot plate
227	1 - Vector spotlight, for discharging Isco batteries
228	2 - VWR ASTM certified / calibrated thermometers
229	2 - Nalgene desiccators
230	1 - muffle furnace-Therolyne
231	1 - vacuum pump-Fisher
232	1 - sterilizer-Electric Steno Clave
233	1 - Incubator-Fisher ISO temp
234	1 - drying oven-Fisher ISO temp oven
235	1 - portable D.O. meter-YSI 550-A
236	1 - BOD Incubator- Fisher low temp model 307
237	1 - microscope-Micromaster
238	1 - Lab refrigerator-Marvel Division
239	2 - timers-West Bend
240	1 - Hanna portable pH meter
241	2 - Hach HQ40D meters, 1 with LBOD probe & 1 w/ Rugged LDO probe
242	1 - Hach Distillation Glassware set for Ammonia
243	1 - Thermo Hot plate for distillation
244	1 - Igloo Ice Maker for Samplers
245	1 - Frigidaire Ice Maker for Samplers

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2021**

SAFETY EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2020</u>
246	10 - Safety Glasses / Goggles	
247	2 - Face Shield	
248	2 - UV Face shields	
249	4 - Rubber Gloves	
250	25 - Disposable Gloves	
251	6 - Dust Mask/Respirators	
252	2 - Ear Protection muffs & 6 pair disposable ear plugs	
253	1 - Eye Wash Stations	
254	2 - Back Supports	
255	1 - Gas Detector / Monitor, portable RKI GX-3R with (Bump/Calibration kit*)	X
256	1 - Lock Out/Tagout Station	
257	2 - Full Body Harness	
258	1 - Lanyards & 1 spreader bar	
259	1 - Tripod, Winch and air machine	
260	3 - First Aid Kits	
261	6 - Fire Extinguishers, Plant	
262	1 - Fire Extinguishers, Office	
263	3 - Fire Extinguishers, Vehicles	

SPARE EQUIPMENT & PARTS

264	4 - electrical contact relay for pista grit	
265	1 - 3 phase monitors for lift stations	
266	3 - Allen Bradley PLC I/O Boards for UV control panel	
267	52 - UV bulbs	
268	56 - UV quartz sleeve	
269	3 - UV ballast	
270	2 - UV air cylinder rebuild kit & 2 outer bands	
271	4 - New UV air cylinder *	X
272	1 - UV air cylinder hose, approx. 20 ft.	
273	15 - Wiper Rings	
274	1 - UV bulb cord w/6 bulb sockets	
275	1 - Blue Poly tubing for outdoor UV panel 5ft 6mm & 5ft 10mm	
276	4 - UV sensor brushes	
277	1 - blower for digesters	
278	1 - Carboy for BOD water	
279	1 - electric cylinder valve for back of sludge truck	
280	1 - Fluorescent bulb ballast & 20 T-8 bulbs	
281	1 - quantity of assorted 3/4, & 1" PVC pipe fittings	
282	1 - quantity of assorted nuts & bolts	
283	1 - Transtector ACP-100 surge suppressor	
284	1 - Transtector PDS 1 tube surge protector	
285	1 - Alternating relay for lift stations	

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Bid for a Semi-Annual Maintenance Agreement for the Stand-by Generator

Bidder	Budget	Total Bid	Services
Mikes	\$1,500.00	\$2,149.12	Semi-Annual Inspection w/ annual oil change and all necessary filters included
Clifford Power	"	\$1,583.31	"
Martin Energy Group	"	\$1,357.22	"