

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
NOVEMBER 19, 2019 @ 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, Lake Ozark, Judy Neels
Alderman, Osage Beach, Greg Massey
Public Works Director, Osage Beach,
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: October 15, 2019 3-4

4. REPORTS

Bill List	5-15
Revenue Budget Analysis	17
Expenditure Budget Analysis	19
Income & Expense Summary	21
Check Registers & Bank Statements	23-26
 October Alliance Report of Operations	 37-53
 Approval of Flow Charts October 2019	

5. OLD BUSINESS

A. Board Representative update	
B. Discussion and possible action regarding 2020 Budget	27-35

6. NEW BUSINESS

- A. Authorization to pay bills in December due to “No December Meeting”
- B. Discussion and possible action on RAS/WAS MCC replacement project

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

**THE NEXT MEETING WILL BE JANUARY 21, 2020 4:00 PM @ LAKE OZARK
CITY HALL**

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – October 15, 2019

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, October 15, 2019 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, Greg Massey - Present
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Resident Member Hamner requested more information regarding the bids that were received. Administrator Woods motioned to approve the meeting minutes of September 17, 2019 with the additional information added. The motion was seconded by Administrator Van Dee, and passed unanimously.

REPORTS:

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

Alliance Report of Operations: The average daily incoming flow for September was 1.830 mgd. We had 3.5 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.1 mg/l and TSS of 1.5 mg/l respectively for September, which represents a 99.3% or better removal.

The MLSS average for both aeration basins was 5,418 mg/l. The total dry weight sludge inventory for September totaled 294,741 pounds. There were 58 tanker loads or 214,600 gallons of bio solids land applied in September. There were 22 tanker loads or 55,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Administrator Van Dee to approve the Flow Chart for September. His motion was seconded by Alderman Massey. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Director Michalik inquired if a generator maintenance agreement or contract was being looked into. Mr. Hutchcraft advised that they were. A brief discussion ensued regarding firms that each city utilizes for their city generators.
- B. Review of the proposed 2020 Budget. Treasurer Karri Bell gave an overview of the proposed 2020 budget, including revenue, expenditures, fund balances and capital improvement projects. There was a lengthy discussion regarding transfers into the capital improvement (equipment replacement) fund and capital improvement projects that are due to be completed. Mr. Hamner is concerned that the Capital Improvement Fund is not increasing. In the end, it was agreed that a new sludge truck, ducking skimmer arm, lawn mower and #2 Aeration Basin repair would not be considered in the 2020 budget. An additional \$30,000 will be transferred from operating revenue into the equipment replacement fund.

With no further discussion, a motion was then made by Administrator Woods to approve the 2020 Budget with the adjustments noted. Her motion was seconded by Administrator Van Dee and was then unanimously approved. Treasurer Bell will bring the final updated 2020 budget to the November meeting for the Board to review.

NEW BUSINESS:

1. Bids were reviewed regarding a salt/sand tailgate spreader for the Ford pickup. Bids were received from Knapheide, Quincy IL (\$1,940.00); Knapheide St. Peters MO (\$1,912.00); and Knapheide Jefferson City, MO (\$1,737.00). A motion was made by Public Works Director Michalik, and seconded by Administrator Van Dee to accept the bid from the Knapheide, Jefferson City in the amount of \$1,737.00) The motion passed unanimously.
2. Discussion then turned to the replacement of the well pump, tank, piping and controls. Mr. Hutchcraft advised that four solicitations / invitations to bid were sent out and only one bid was received back from Flynn Drilling in the amount of \$11,981.00. Alderman Massey motioned to accept the bid from Flynn Drilling. His motion was seconded by Administrator Woods and was then unanimously approved.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 5:13 pm.

Approved on:

Mayor, John Olivarri

City Clerk, Kathy Vance

JOINT SEWER BOARD
BILL LIST
NOVEMBER 19, 2019

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	1,608.80
OPERATING FUND BILLS TO BE PAID:	\$	45,868.71
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	277.89
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	4,227.51
TOTAL	\$	51,982.91

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4176	169	AT&T	October	\$ 90.84
4150	170	Irwin Diesel Repair	Sludge Trk 4V2JCBBE7SR83094	\$ 735.05
4150	171	Roemer's Heavy Equip	Service and new alternator	\$ 782.91
				\$ -
TOTAL				\$ 1,608.80

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	172	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4020	173	Controlled Heating & Cooling	Annual Main - UV room	\$ 110.00
4020	173	Controlled Heating & Cooling	Annual Main - Admin Bldg.	\$ 208.15
4020	174	Core & Main LP	Chlorine	\$ 250.60
4020	175	Dam Steel	Repair/Weld Pista Grit Tube	\$ 37.50
4020	176	Jani King	November	\$ 195.00
4020	177	Menards	Epoxy for Pista Grit	\$ 9.51
4020	177	Menards	Door Knob Headworks Bldg.	\$ 34.99
4020	177	Menards	Grease Gun	\$ 21.99
4020	178	Road Runner LLC	Parking Lot Seal	\$ 1,400.00
4020	179	USA Blue Book	Sludge Judge Section	\$ 303.67
4020	180	Xylem Water Solutions	UV Wipers	\$ 2,170.79
4020	181	UV Doctor Lamps, LLC	UV spare parts	\$ 2,835.00
4150	182	Bledsoe Automotive	Tow Services (2)	\$ 484.00
4150	183	O'Reilly Auto	V-belts for sludge trk	\$ 40.98
4150	183	O'Reilly Auto	Battery Sludge Trk	\$ 212.80
4150	184	Roemer's Heavy Equip	Labor Fan Belts	\$ 230.00
4170	185	Alliance Water Resources, Inc.	November	\$ 24,966.00
4175	186	Ameren MO	11673321	\$ 4,823.64
4175	186	Ameren MO	98041275	\$ 96.00
4176	187	AT&T	November	\$ 93.73
4176	188	Republic	November	\$ 154.17
4240	189	Knapheide Truck Equip Ctr.	Mini Pro Tailgate Spreader	\$ 1,737.00
4050	190	Above & Beyond Roofing	Rain/Drip cover and repair roof	\$ 1,986.19
TOTAL				\$ 45,868.71

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4000	1035	USA Blue Book	Ammonia & BOD probes	\$ 277.89
				\$ -
TOTAL				\$ 277.89

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	1036	Catalyst Electric	Parking Lot Lights	\$ 3,899.00
4000	1037	Lake Sun Leader	RAS Elec Panel Publication	\$ 222.75
4000	1038	USA Blue Book	Replace Ammonia Probe	\$ 105.76
TOTAL				\$ 4,227.51



Invoice

Date
10/24/2019

Invoice
2019-450

Road Runners, LLC
26 ALLEN RD
Eldon, MO 65026
Phone: 5733659450
roadrunnersllc@gmail.com



Billed To
Joint Board of the Lake Ozark Orange Beach Sewage Treatment Gary Hutchcraft 3 Anderson Road Lake Ozark, MO 65049

P.O. No.	Term

Description	Amount
Crack Filling of asphalt cracks with Hot Tar. Cracks to be cleaned out with air blowers as needed.	640.00
Seal Coating of asphalt with asphalt sealer. Sand installed with sealer for traction control.	760.00
PARKING LOT SEAL	
GL Acct#: 4020	
Signature: Gary Hutchcraft	
Date: 10/24/19	
Total	\$1,400.00

Xylem Water Solutions U.S.A., Inc.

4828 PARKWAY PLAZA BLVD
CHARLOTTE, NC 28217
Tel: (704) 409 9700 Fax: (704) 716-7610



26717 Network Place
Chicago, IL 60673-1267

INVOICE			YOUR PURCHASE ORDER GARY102519	
INVOICE NO. 3556A93629	FUS NO. C64859	DATE SHIPPED 10/25/19	DELIVERY NOTE G13048	
INVOICE DATE 10/25/19	TRN A3	WHS 115	PAYMENT TERMS 100% N30 FROM INVOICE	

Sold To:

Customer No. 145733

Ship To:

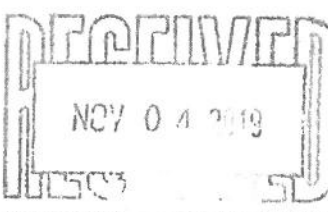
Global No. 5007997

JNT SWR BD

PO BOX 1985
3 ANDERSON RD
LAKE OZARK

MO 65049-1985

JOINT SEWER BOARD
ATTN: GARY HUTCHCRAFT
3 ANDERSON ROAD
LAKE OZARK MO 65049

FREIGHT TERMS Jobsite		DELIVERY TERMS PP/Add Actual surcha		ORDER PROCESSED BY WEDECO-CHARLOTTE, NC	
SHIP VIA FedEx PKG Ground Business		ORDER TEXT		CUSTOMER TEXT JULIE ROPIC	
LINE	ITEM/DESCRIPTION	QUANTITY SHIPPED UM	UNIT PRICE DISCOUNT/CHARGE	NET PRICE	EXTENDED AMOUNT
001	7600000038720 WIPER HOLDER 063X15 INCL. PTFE Reduction by Set \$ Value OLD NUMBER: I38720	144 EA	22.00 7.00	15.000	2,160.00
SUB-TOTAL OF POSITIONS					2,160.00
PLUS ACTUAL S & H CHARGES					10.79
TOTAL WEIGHT 6.000 LBS					
NET AMOUNT BEFORE TAXES USD					2,170.79
 DISPATCH INFO: 114931760590 UV WIPER'S GL Acc #: 4020 Signature: Gary Hutchcraft Date: 11/4/19 ORDER TOTAL USD 2,170.79					

IMPORTANT: This invoice is governed by and subject to TERMS AND CONDITIONS OF SALE - XYLEM AMERICAS. Different terms are hereby rejected unless expressly assented to in writing. Terms are accessible at <http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx>

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

UV DOCTOR INVOICE

Invoice # 12889

Bill To:
JOINT SEWER BOARD
ALLIANCE WATER RESOURCES, INC
PO BOX 1985
LAKE OZARK, MO 65049

Ship To:
ALLIANCE WATER RESOURCES, INC
LAKE OF THE OZARKS
REGIONAL WWTP
#3 ANDERSON ROAD
LAKE OZARK, MO 65049

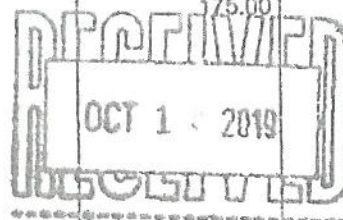
Date	P.O. No.	Ship Via	FOB		Terms	Due Date
10/14/2019	VERBAL - GARY H.	UPS	Newport WA		NET 30	11/13/2019
Item	Description	Ordered	Shipped	Unit Price	Amount	
1648	WEDECO WIPER RING - 4 TURN TEFLON - #33639	144	0	15.00	0.00T	
1621	QUARTZ SLEEVE W/ END CAPS WEDECO TAK 55	20	20	133.00	2,660.00T	
1601-HP FREIGHT	REPLACEMENT FOR WEDECO ELR 30 LAMP SHIPPING AND HANDLING. UPS TRACKING 1Z0371XV0390866138 & 1Z0371XV0392324148 Estimated Delivery Friday October 18, 2019.	7	7	0.00 175.00	0.00T 175.00	

UV SPARE PARTS
 (ORDER NOT COMPLETE)

GL Acct#: 4020

Signature: [Signature]

Date: 10/18/19



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

Sales Tax (0.0%) \$0.00

Total \$2,835.00

Payments/Credits \$0.00

Balance Due USD \$2,835.00

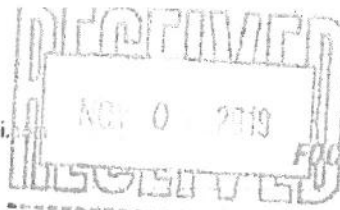
REMIT TO:
UV DOCTOR LAMPS, LLC
209 S. WASHINGTON AVE.
NEWPORT, WA 99156

Tel # (509)447-5800

Fax # (509)447-5822



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736



FOCUSED ENERGY. For life.

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

AMOUNT DUE \$10,833.28

Due Date 11/29/2019

Amount After Due Date \$10,995.77

Previous Statement \$5,920.83

Total Payments \$0.00

Payment Not Received.

If the prior balance has been paid, pay current amount of \$4,812.45 only.

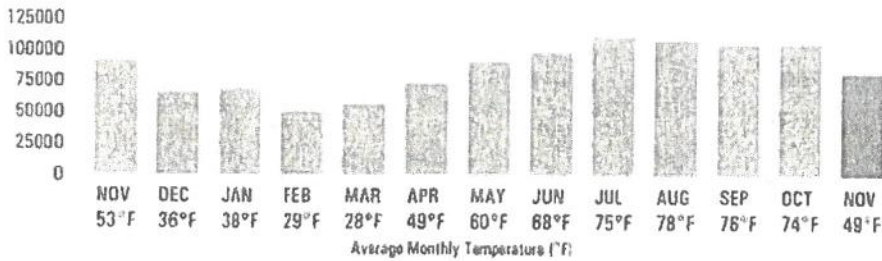
Current Detail for Statement 11/06/2019

Total Electric Charges \$4,823.84
 Additional Charges (» see details pages) \$88.81
 Prior Balance \$5,920.83

Total Amount Due \$10,833.28

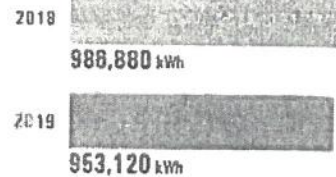
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 3.4% less than last year.



Usage from Jan-Nov for 2018 & 2019

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

GLA call: 4175

Signature: [Handwritten Signature]

Date: 11/6/19

Please return this portion with your payment.

APPLIED PAYMENT TO WRONG ACCOUNT

Pay \$4,823.64



☐ Check if you have address changes on back.

Amount Due	Due Date
\$10,833.28	November 28, 2018
Delinquent Amount After Due Date	Account Number
\$10,995.77	4580005832

Amount Enclosed \$

>000189 6216704 0002 072139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

40600000 0045800058302 000004912450 000010833280



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88058, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

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Electric Service Details Service from 10/06/2019 - 11/04/2019 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	10/06-11/04	29	Total kWh	Actual	86836.0000	56118.0000	518.0000	180.0000	82880.0000
11673321	10/06-11/04	29	Peak kW	Actual	1.1950	0.0000	1.1950	180.0000	191.2000

Usage Summary

Total kWh	82880.0000	Peak kW	191.2000
Total Billing Demand	191.2000	October Winter Base kW	216.5000
Winter Base Demand	191.2000	Base kWh Ratio	1.0000
Base kWh (HUD)	82880.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03890000	\$0.00
Demand Charge	191.20	kW	@ \$ 2.00000000	\$382.40
Base Energy Charge / Hours Used	28,680.00	kWh	@ \$ 0.06850000	\$1,907.22
Base Energy Charge / Hours Used	38,240.00	kWh	@ \$ 0.04940000	\$1,889.06
Base Energy Charge / Hours Used	15,960.00	kWh	@ \$ 0.03890000	\$620.84
Customer Charge				\$95.07
Fuel Adjustment Charge	82,880.00	kWh	@ \$-0.00136000	\$-112.72
Energy Efficiency Program Charge	82,880.00	kWh	@ \$ 0.00020000	\$16.58
Energy Efficiency Investment Charge	82,880.00	kWh	@ \$ 0.00492400	\$408.10
Federal Tax Rate Reduction	82,880.00	kWh	@ \$-0.00462000	\$-382.91
Total Service Amount				\$4,823.64
Total Electric Charges				\$4,823.64

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

Page 2 of 4

Address Changes or Corrections

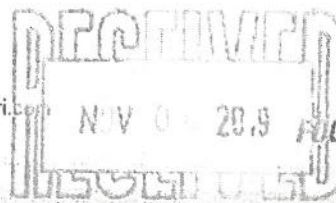
Name _____
 Address _____
 City, State, Zip _____
 Phone Number _____

AmerenMissouri.com/WaysToPay

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



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



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

CREDIT BALANCE \$-5,824.83

Due Date DO NOT PAY

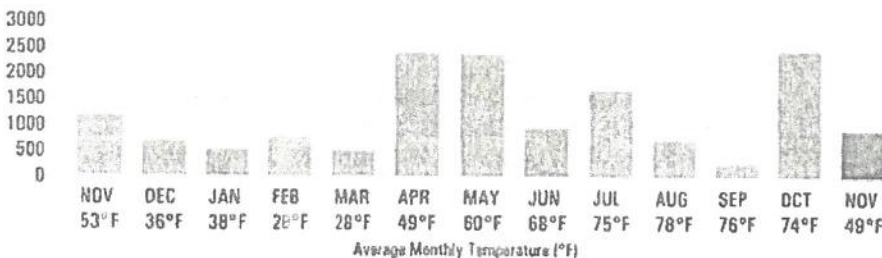
Current Detail for Statement 11/06/2019

Total Electric Charges **\$98.00**
 Additional Charges (» see details pages) **\$-5,920.83**
Total Amount Due \$-5,824.83

Amount After Due Date **\$0.00**
 Previous Statement **\$194.48**
 Total Payments **\$6,115.31**
Payment Received. Thank You.

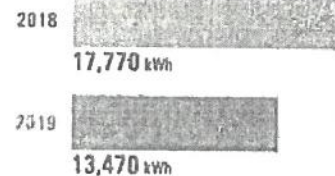
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **24.2% less** than last year.



Usage from Jan-Nov for 2018 & 2019

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: 11/6/19

» See next page for service details.

Keep this portion for your records.

Applied Payment TO WRONG ACCOUNT Page 1 of 4



☐ Check if you have address changes on back.

» 000290 6216704 0002 092139 102

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

PAY \$46.00

Credit Balance	Due Date
\$-5,824.83	November 28, 2019
Delinquent Amount After Due Date	Account Number
\$0.00	5580005920
DO NOT PAY	

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

20633000 0055800059200 000000000000 000005824831



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

FOCUSED ENERGY. For life.

Electric Service Details Service from 10/06/2019 - 11/04/2019 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
86641275	10/06 - 11/04	29	Total kWh	Actual	19424.0000	19333.0000	91.0000	10.0000	910.0000
86641275	10/06 - 11/04	29	Peak kW	Actual	3.6740	0.0000	3.6740	10.0000	36.7400

Usage Summary

Total kWh	910.0000	Winter Base kWh	1680.0000
Current Base kWh	910.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	910.00	kWh	@ \$ 0.08360000	\$76.08
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04820000	\$0.00
Customer Charge				\$21.43
Fuel Adjustment Charge	910.00	kWh	@ \$-0.00136000	\$-1.24
Energy Efficiency Program Charge	910.00	kWh	@ \$ 0.00010000	\$0.09
Energy Efficiency Investment Charge	910.00	kWh	@ \$ 0.00542000	\$4.93
Federal Tax Rate Reduction	910.00	kWh	@ \$-0.00581000	\$-5.29
Total Service Amount				\$96.00
Total Electric Charges				\$96.00

Additional Charges

DESCRIPTION	CHARGE
Credit	\$-5,920.83
Total Additional Charges	\$-5,920.83

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

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



ONLINE
E-CHECK



PHONE
866.268.3729



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



ONLINE
CREDIT CARD



MAIL
STUB & CHECK

KNAPHEIDE TRUCK EQUIPMENT CENTER

KNAPHEIDE TRUCK EQUIPMENT CENTER JC
6603 BUSINESS 50 WEST JEFFERSON CITY MO 65109

INVOICE

INVOICE: JCJ31617
P.O. .
10/29/19

Customer: 710510
JOINT SEWER BOARD
P O BOX 1985
.3 ANDERSON ROAD
LAKE OZARK MO 65049
573-365-0455

DESTINATION: JOINT SEWER BOARD

End User ID:
JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK MO 65049
Ship Via:

Contact: GARY HUTCHCRAFT

Vin: 1FTBF2B66JCEC6428

Make: FORD F-250

Start Date: 10/18/19

Odometer: 317

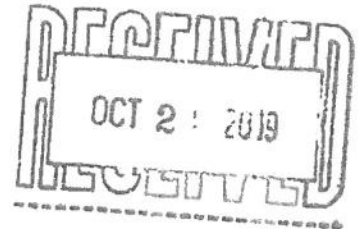
TRYN SP575X-1

Part Number	Description	Quantity	UOM
-------------	-------------	----------	-----

TRYN SP-575X-1	MINI PRO TAILGATE SPREADER	1.0	EA
----------------	----------------------------	-----	----

SPREADER SERIAL# 190730300540SP-575X-1

JC LABOR	INSTALLATION	2.0	HR
MINI PRO TAILGATE SPREADER			



GL Acct#: 4240

Signature: *Gary Hutchcraft*

Date: 10/29/19

*** Visit And Like Us On Facebook at:
<https://www.facebook.com/KnapheideJeffersonCity/> ***
SHOP OUR ONLINE PARTS STORE 24/7 AT WWW.SHOPKTEC.COM

REMIT TO: KNAPHEIDE TRUCK EQUIP CO JC
6603 BUSINESS 50 WEST
JEFFERSON CITY MO 65109
573-893-5200 FAX 573-893-5344

TERMS: N30

Subtotal	1,737.00
Sales Tax	0.00
TOTAL	1,737.00

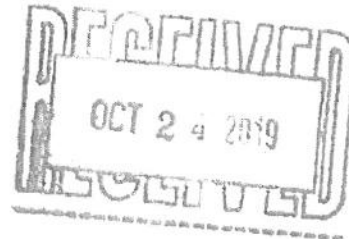
KNAPHEIDE

SINCE 1848

Invoice

Date	Invoice #
10/21/2019	10606

Bill To:
Joint Sewer Board
#3 Anderson Road
Lake Ozark, MO



		P.O. No.	Terms	Project
			Net 30	
Quantity	Description	Amount	Rate	
	- Invoice for completed work according to Estimate #5272-- Bid is for fixture replacement at Joint Sewer Board WWTP in Lake Ozark, MO. Bid includes labor and material to complete the following scope of work. - Removal and replacement of existing fixtures on 11 parking lot poles - Utilize existing power, bid assumes all poles have power - Installation of 11- 150 watt, 20250 lumen fixtures, 7 year manufacturers warranty- 277 volt - Bid assumes power for pole is already timer, or photocell controlled. Bid does not include photocells or timers - Disposal of old fixtures - Test out and aiming of fixtures - 1 Year labor/workmanship on work completed Does not include: - Any troubleshooting if poles do not have power, to be billed at \$65/per man/hr if needed. - Photocells or timer controls - Any changing of wiring if poles are not 277 volt - Any other repairs to lighting system - Warranty on existing underground wiring feeding poles <i>REPLACEMENT PARKING LOT LIGHTS</i> GL Acct#/: <u>4000</u>	3,899.00	3,899.00	
Thank you for your business!		Signature: <i>[Signature]</i>	Total	\$3,899.00
		Date: <u>10/24/19</u>	Payments/Credits	\$0.00
			Balance Due	\$3,899.00

Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com

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

Account Number	Account Name	10/31/2019					Percent YTD
		2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 10/31/2019	2019 October Revenue	
3020	Osage Beach	478,614.41	480,784.67	478,500.00	395,728.01	39,689.97	83%
3010	Lake Ozark	71,385.58	69,215.30	71,500.00	62,605.32	6,143.37	88%
3030	Misc.	0.00	1,485.00	0.00	0.00	0.00	
3100	Interest	781.57	1,484.82	400.00	1,918.20	195.63	480%
3060	Waste Haulers' Fee	30,500.00	25,780.00	30,000.00	23,540.00	3,880.00	78%
Total Operating Fund		581,281.56	578,749.79	580,400.00	483,791.53	49,908.97	83%
E/R Fund Income		2,319.07	4,281.74	3,000.00	3,200.53	114.75	107%
TOTAL INCOME		583,600.63	583,031.53	583,400.00	486,992.06	50,023.72	83%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
10/31/2019

Account Number	Account Name	2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 10/31/2019	2019 October Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.17	41,604.00	34,670.00	3,467.00	83%
4020	*Maintenance & Repair	129,789.11	9,713.86	122,000.00	92,199.83	848.18	76%
4140	Insurance	17,144.00	18,475.25	19,030.25	18,761.00	137.00	99%
4150	Vehicle Repair/Maint	12,047.61	3,887.47	8,000.00	4,197.23	2,862.64	52%
4160	Haulers Fees to Contract	8,000.00	8,000.00	0.00	0.00	0.00	
4170	Contract Management	311,229.84	319,010.64	299,592.00	249,660.00	24,966.00	83%
4175	Electric	69,261.90	79,533.37	80,000.00	64,966.78	6,115.31	81%
4176	Utilities Misc.	0.00	0.00	5,000.00	3,223.14	947.79	64%
4190	Bank Charges	24.35	24.00	60.00	62.80	4.00	0%
4200	Audit	2,200.00	2,300.00	2,400.00	2,400.00	0.00	100%
4220	Professional Service	1,200.00	0.00	0.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	152,000.00	86,106.00	0.00	57%
	Totals	592,500.98	482,548.76	729,686.25	556,246.78	39,347.92	76%
	**E/R Expenses	7,554.68	42,782.61	96,500.00	20,116.00	2,245.72	21%
	TOTAL EXPENSES	600,055.66	525,331.37	826,186.25	576,362.78	41,593.64	70%

****Equipment & Replacement**

Rebuild Ducking Skimmer Arm	5,000.00	
Replace BOD & Ammonia probes	2,000.00	X
Replace grit concentrator, volute & cart for pista	15,000.00	X
Replace wooden doors	2,000.00	
Replace impellers for RAS pumps	7,500.00	X
Replace LED parking lot light	10,000.00	X
Replace electric panel & pump	15,000.00	2019
Replace electric panel in RAS	40,000.00	2019
	<u>96,500.00</u>	

***Maintenance & Repair**

Auto Dialer Yrly Main. Fee	500.00
Effluent Testing for Permit Renewal	1,500.00
Normal Maintenance	8,000.00
UV Spare Parts	8,000.00
Road and parking lot main	4,000.00
#2 Aeration Basin repair valves lab testing	100,000.00

Sandblast & paint Clarifier #3
CARRYOVER 2018 \$68,900

122,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
10/31/2019

Beginning Balance	291,303.32
Income - Osage Beach	39,689.97
Income - Lake Ozark	6,143.37
Income - Other	-
Income - Waste Haulers' Fees	3,880.00
Interest - Checking	12.58
Income - CD Interest	183.05
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(35,880.92)
Ending Fund Balance	301,864.37
Central Bank - NOW Acct.	100,034.37
CD First Bank of the Lake, 11/19 #101318432	101,830.00
CD Central Bank, 1/20 #151763	100,000.00
Outstanding Checks:	-
	301,864.37

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
10/31/2019

Beginning Balance	544,214.38
Interest - Checking	-
Income - CD Interest	114.75
Transfers to E/R Fund	3,467.00
Income - Miscellaneous	-
Expenses	(2,245.72)
Ending Fund Balance	545,550.41
First Bank of the Lake - Money Mkt.	135,486.36
CD Providence Bank, 8/20 #1268880	206,532.10
CD First Bank of the Lake, 11/19 #101318431	100,000.00
CD First Bank of the Lake, 04/20 #101318430	103,531.95
Outstanding Checks:	-
	545,550.41

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CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 5/31/19			130,336.02
1031	Eastech Flow Controls, Inc.	X	3,009.00	127,327.02
	Interest	X		127,427.76
	Deposit	X		130,894.76
			100.74	
			3,467.00	
	reconciled balance 6/30/19			130,894.76
	Interest	X		131,015.16
	Deposit	X		134,482.16
			120.40	
			3,467.00	
	reconciled balance 7/31/19			134,482.16
	Interest	X		134,593.45
	Deposit	X		138,060.45
			111.29	
			3,467.00	
	reconciled balance 8/31/19			138,060.45
1032	TG Technical Services	X	494.87	137,565.58
1033	Letts, Van Kirk & Assoc.	X	6,999.00	130,566.58
	Interest	X		130,683.33
	Deposit	X		134,150.33
			116.75	
			3,467.00	
	reconciled balance 9/30/19			134,150.33
1034	Lake Sun	X	240.75	133,909.58
1035	USA Blue Book	X	2,004.97	131,904.61
	Interest	X		132,019.36
	Deposit	X		135,486.36
			114.75	
			3,467.00	
	reconciled balance 10/31/19			135,486.36

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 8/31/19			152,561.97
141	Martin Energy Group Serices, LLC	X	71,755.00	80,806.97
142	Equipment Replacement Fund	X	3,467.00	77,339.97
143	Jani-King	X	195.00	77,144.97
144	Menards	X	56.97	77,088.00
145	Mission Comm	X	407.40	76,680.60
146	University of MO Ext. County	X	123.00	76,557.60
147	Clark Tire Co.	X	65.00	76,492.60
148	Alliance Water Resources, Inc.	X	24,966.00	51,526.60
149	Ameren MO	X	9,783.92	41,742.68
150	Republic Services	X	144.29	41,598.39
151	AT&T	X	90.85	41,507.54
152	Roemer's Heavy Equip	X	258.10	41,249.44
	Two signature verification chg.	X	5.00	41,244.44
	Deposit LO	X		6,265.91
	Deposit OB	X		39,567.43
	Deposit HAULING	X		700.00
	Deposit HAULING	X		1,500.00
	Interest	X		195.54
	reconciled balance 9/30/19			89,473.32
153	Equipment Replacement Fund	X	3,467.00	86,006.32
154	Core & Main	X	250.60	85,755.72
155	Jani-King	X	195.00	85,560.72
156	McMaster-Carr	X	169.27	85,391.45
157	Smart Postal	X	100.00	85,291.45
158	Xylem Water Solutions USA	X	133.31	85,158.14
159	Naught Naught	X	137.00	85,021.14
160	Clark Tire Co.	X	996.58	84,024.56
161	DOC Lubrication Specialists	X	79.20	83,945.36
162	Denny's Dock Services LLC	X	200.00	83,745.36
163	Field Gymmy Inc.	X	46.92	83,698.44
164	O'Reilly Auto	X	21.98	83,676.46
165	Alliance Water Resources, Inc.	X	24,966.00	58,710.46
166	Ameren MO	X	6,115.31	52,595.15
167	Ferrellgas	X	713.09	51,882.06
168	Republic	X	143.86	51,738.20
169	AT&T	X	90.84	51,647.36
170	Irwin Diesel Repair	X	735.05	50,912.31
171	Roemer's Heavy Equip.	X	782.91	50,129.40
	Two signature verification chg.	X	4.00	50,125.40
	Deposit LO	X		6,143.37
	Deposit OB	X		39,689.97
	Deposit HAULING	X		440.00
	Deposit HAULING	X		3,440.00
	Interest	X		195.63
	reconciled balance 10/31/19			100,034.37



4558 Osage Beach Parkway
Suite 100
Osage Beach, MO 65065

RETURN SERVICE REQUESTED

>000018 6214659 0001 093195 102 030

LAKE OZARK-OSAGE BEACH JOINT SEWER
TREATMENT PLANT BOARD
1000 CITY PKWY
OSAGE BEACH MO 65065-3058



Statement Ending 10/31/2019

Page 1 of 4

Managing Your Accounts

Phone Number 573-348-2265
 Mailing Address 4558 Osage Beach Parkway
Suite 100
Osage Beach, MO 65065
 Online Banking www.FirstBankLake.com
 Mobile Banking First Bank Of The Lake

Summary of Accounts

Account Summary

Date	Description	Amount
10/01/2019	Beginning Balance	\$134,150.33
	2 Credit(s) This Period	\$3,581.75
	2 Debit(s) This Period	\$2,245.72
10/31/2019	Ending Balance	\$135,486.36

Interest Summary

Description	Amount
Annual Percentage Yield Earned	1.00%
Interest Days	31
Interest Earned	\$114.75
Interest Paid This Period	\$114.75
Interest Paid Year-to-Date	\$1,204.69
Minimum Balance	\$0.00
Average Available Balance	\$135,113.23

Deposits

Date	Description	Amount
10/16/2019	DEPOSIT	\$3,467.00

Other Credits

Date	Description	Amount
10/31/2019	INTEREST	\$114.75

Checks Cleared

Check Nbr	Date	Amount	Check Nbr	Date	Amount
1034	10/21/2019	\$240.75	1035	10/24/2019	\$2,004.97

* Indicates skipped check number

Daily Balances

Date	Amount	Date	Amount
10/16/2019	\$137,617.33	10/24/2019	\$135,371.61
10/21/2019	\$137,376.58	10/31/2019	\$135,486.36





Central Bank of Lake of the Ozarks

MEMBER FDIC

P.O. Box 4500, Jefferson City, MO 65102
(573) 348-2761

RETURN SERVICE REQUESTED

LAKE OZARK OSAGE BEACH JOINT SEWER
TREATMENT PLANT BOARD
LAKE OZARK OSAGE BEACH JOINT SEWER TRMT
1000 CITY PKWY
OSAGE BEACH MO 65065-3058

Period 10/01/2019 - 10/31/2019 Page 1 of 5
Web Address www.centralbank.net

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000

Your Financial Summary on October 31, 2019

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 100,034.37	
Certificates of Deposit	\$ 100,000.00	
Bank Deposit Total		\$ 200,034.37
Total Assets:	\$ 200,034.37	\$ 200,034.37

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297	Beginning Balance September 30, 2019	\$ 90,154.69
Deposits		
Oct. 15 Deposit		6,143.37
Oct. 15 Deposit		39,689.97
Oct. 17 Deposit		440.00
Oct. 18 CD Interest 000151763		183.05
Oct. 25 Deposit		3,440.00
Oct. 31 Interest Earned		12.58
	Total	+\$ 49,908.97

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
131	Oct. 30	423.27	162	Oct. 22	200.00
152	Oct. 09	258.10	163	Oct. 22	46.92
153	Oct. 17	3,467.00	164	Oct. 24	21.98
154	Oct. 22	250.60	165	Oct. 17	24,966.00
155	Oct. 21	195.00	166	Oct. 22	6,115.31
156	Oct. 21	169.27	167	Oct. 21	713.09
157	Oct. 21	100.00	168	Oct. 24	143.86
158	Oct. 23	133.31	169	Oct. 22	90.84
159	Oct. 18	137.00	170	Oct. 21	735.05
160	Oct. 21	996.58	171	Oct. 28	782.91
161	Oct. 21	79.20			

Total **-\$ 40,025.29**

Withdrawals and other charges

Date	Type	Transaction Description	
Oct. 01	09/2019 TWO SIGNATURE VERI		4.00
		Total	-\$ 4.00

**LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2020 BUDGET WORKSHEET
REVENUE**

Operating Fund	2017 Actual	2018 Actual	2019 Budget	2019 10/31/2019	2019 Nov/Dec	2019 Total Est.	2020 Proposed
3020 Osage Beach	478,614.41	480,784.67	478,500.00	395,728.01	77,271.99	473,000.00	473,000.00
3010 Lake Ozark	71,385.58	69,215.30	71,500.00	62,605.32	14,394.68	77,000.00	77,000.00
3030 Misc.		1,485.00					
3100 Interest	781.57	1,708.83	400.00	1,918.20	300.00	2,218.20	1,400.00
3060 Waste Haulers' Fee	30,500.00	25,780.00	30,000.00	23,540.00	3,300.00	26,840.00	29,000.00
Total Operating Fund	581,281.56	578,973.80	580,400.00	483,791.53	95,266.67	579,058.20	580,400.00
Equipment Replace.							
Transfers-Operating	41,604.17	41,604.00	41,606.04	34,670.00	6,936.00	41,606.00	71,606.04
Interest Revenue	2,319.07	5,348.41	3,000.00	3,200.53	1,000.00	4,200.53	4,000.00
Total E.R. Revenue	43,923.24	46,952.41	44,606.04	37,870.53	7,936.00	45,806.53	75,606.04

**LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2020 BUDGET WORKSHEET
EXPENDITURES**

	2017 Actual	2018 Actual	2019 Budget	2019 10/31/2019	2019 Nov/Dec	2019 Total Est.	2020 Proposed	2020 Proposed
4000 Equip. Replace Fund	41,604.17	41,604.00	41,604.00	34,670.00	6,934.00	41,604.00	71,606.00	
4020 Equip & Bldg. Repair/Main.	129,789.11	9,713.86	122,000.00	92,199.83	27,800.17	120,000.00	88,000.00	*
4140 Insurance	17,144.00	18,475.25	19,030.25	18,761.00	-	18,761.00	19,200.00	
4150 Vehicle Repair/Main.	12,047.61	3,887.47	8,000.00	4,197.23	5,800.00	9,997.23	10,000.00	***
4160 Haulers Fees to Contractor	8,000.00	8,000.00	0.00	-	-	-	-	
4170 Contract Management	311,229.84	319,010.64	299,592.00	249,660.00	49,932.00	299,592.00	308,580.00	
4175 Electric	69,261.90	79,533.37	80,000.00	64,966.78	8,651.00	73,617.78	75,000.00	
4176 Utilities Misc.	0.00	0.00	5,000.00	3,223.14	1,500.00	4,723.14	3,100.00	
4190 Bank Charges	24.35	24.00	60.00	62.80	10.00	72.80	75.00	
4200 Audit	2,200.00	2,300.00	2,400.00	2,400.00	-	2,400.00	2,500.00	
4220 Professional Services	1,200.00	0.00	0.00	-	-	-	-	
4240 Equipment Purch-New Generator	0.00	0.00	152,000.00	86,106.00	59,141.00	145,247.00	-	
Total Operating Fund	592,500.98	482,548.59	729,686.25	556,246.78	159,768.17	716,014.95	578,061.00	
E/R Expenses per Alliance	7,554.68	42,782.61	96,500.00	20,116.00	55,000.00	75,116.00	83,500.00	**
Disinfectin System	-	-	-	-	-	-	-	
Total E.R. Fund	7,554.68	42,782.61	96,500.00	20,116.00	55,000.00	75,116.00	83,500.00	

****Equipment & Replacement**

Pista Grit Suction tube	5,500.00	Tier 1
Replace lift station pump	8,000.00	Tier 1
Impeller & volute wear ring for Flygt p	3,000.00	Tier 1
Ducking skimmer arm mechanism	12,000.00	Tier 1
Replace winch for pulling lift station p	3,000.00	Tier 1
Rebuild Ducking skimmer arm & arm	5,000.00	Tier 1
Replace wooden doors w/fiberglass	2,000.00	Tier 1
Repair/replace roof on headworks & i	45,000.00	Tier 1
	83,500.00	

*****Vehicle Repair/Maint**

Vehicle Maintenance	10,000.00	Tier 1
	10,000.00	

***Maintenance & Repair**

Auto Dialer Yrly Software Fee	500.00	Tier 1
Regular Maintenance	11,000.00	Tier 1
UV Spare Parts	10,000.00	Tier 1
Road and parking lot main	2,000.00	Tier 1
Chainlink fence repair	4,000.00	Tier 1
Box of BOD bottles	500.00	Tier 1
Sandblast & paint clarifier #2	60,000.00	Tier 2
	88,000.00	

ESTIMATED FUND BALANCES

OPERATING FUND

BALANCE 1/1/19	374,323.00
TOTAL ESTIMATED REVENUE	579,058.20
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(716,014.95)</u>
BALANCE 12/31/19	237,366.25
TOTAL ESTIMATED REVENUE	580,400.00
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(578,061.00)</u>
BALANCE 12/31/20	<u><u>239,705.25</u></u>

EQUIPMENT REPLACEMENT FUND

BALANCE 1/1/19	527,796.00
TOTAL ESTIMATED REVENUE/TRANSFERS	45,806.53
TOTAL ESTIMATED EXPENSES	<u>(75,116.00)</u>
BALANCE 12/31/19	498,486.53
TOTAL ESTIMATED REVENUE/TRANSFERS	75,606.04
TOTAL ESTIMATED EXPENSES	<u>(83,500.00)</u>
BALANCE 12/31/20	<u><u>490,592.57</u></u>

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ALTERNATIVE FORMAT

DRAFT BUDGET REPORT

2020

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Operating Budget

Cash & Equivalent Balance January 1, 2020 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

237,366

TOTAL Cash & Equivalent Balance January 1, 2020

\$ 237,366

Revenue

Osage Beach

473,000

Lake Ozark

77,000

Misc.

-

Interest

1,400

Waste Haulers' Fee

29,000

TOTAL Revenues

\$ 580,400

Expenditures

Transfer to Replacement Fund

71,606

Equipment & Building Repair/main.

88,000

Insurance

19,200

Vehicle Maintenance

10,000

Contract Management

308,580

Electric

75,000

Utilities Misc.

3,100

Bank Charges

75

Audit

2,500

Professional Services

-

Equipment Purchase - New

-

TOTAL Expenditures

\$ 578,061

Cash & Equivalent Balance December 31, 2020 - Estimated

Restricted - Fund Reserves

Unrestricted

239,705

TOTAL Cash & Equivalent Balance December 31, 2020

\$ 239,705

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Operating Budget

REVENUE	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Budget	FY2019 Projected Year-End	FY2020 Budget
<u>Operating Revenue</u>						
3020 Osage Beach - 86%	475,803	478,614	480,785	478,500	473,000	473,00
3010 Lake Ozark - 14%	74,197	71,386	69,215	71,500	77,000	77,00
3030 Misc.	-	-	1,485	-	-	-
3100 Interest	369	782	1,709	400	2,218	1,40
3030 Waste Haulers' Fee	33,460	30,500	25,780	30,000	26,840	29,00
Total Franchise Fees	\$ 583,829	\$ 581,282	\$ 578,974	\$ 580,400	\$ 579,058	\$ 580,40
 Total General Fund Revenues	 \$ 583,829	 \$ 581,282	 \$ 578,974	 \$ 580,400	 \$ 579,058	 \$ 580,40

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Operating Budget

Expenditures	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Budget	FY2019 Projected Year-End	FY2020 Budget
<u>Operations and Maintenance</u>						
4000 Transfer to Equip. Replace. Fund	41,606	41,604	41,604	41,604	41,604	71,60
4020 Equip & Bldg. Repair/Main.	18,736	129,789	9,714	122,000	120,000	88,00
4140 Insurance	16,977	17,144	18,475	19,030	18,761	19,20
4150 Vehicle Repair/Main.	952	12,048	3,887	8,000	9,997	10,00
4160 Haulers fees to contractor	8,000	8,000	8,000	-	-	-
4170 Contract Management	303,639	311,230	319,011	299,592	299,592	308,58
4175 Electric Service	72,637	69,262	79,533	80,000	73,618	75,00
4176 Utilities Misc.	-	-	-	5,000	4,723	3,10
4190 Bank Charges	-	24	24	60	73	7
4200 Audit	2,159	2,200	2,300	2,400	2,400	2,50
4220 Professional Services	9,208	1,200	-	-	-	-
4240 Equipment - New Generator	-	-	-	152,000	145,247	-
Total Operations and Maintenance	\$ 473,913	\$ 592,501	\$ 482,549	\$ 729,686	\$ 716,015	\$ 578,06

DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500	Tier 1
Regular Maintenance	11,000	Tier 1
UV Spare Parts	10,000	Tier 1
Road and parking lot main	2,000	Tier 1
Chainlink fence repair	4,000	Tier 1
Box of BOD bottles	500	Tier 1
Sandblast & paint clarifier #2	60,000	Tier 2
	88,000	

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Equipment Replacement Budget

Cash & Equivalent Balance January 1, 2020 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

498,487

TOTAL Cash & Equivalent Balance January 1, 2020

\$ 498,487

Revenue

Interest

4,000

Transfer From Other Funds

71,606

TOTAL Revenues

\$ 75,606

Expenditures

Replacement

83,500

TOTAL Expenditures

\$ 83,500

Cash & Equivalent Balance December 31, 2020 - Estimated

Restricted - Fund Reserves

490,593

Restricted - Other

Unrestricted

-

TOTAL Cash & Equivalent Balance December 31, 2020

\$ 490,593

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Equipment Replacement Budget

REVENUE	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Budget	FY2019 Projected Year-End	FY2020 Budget
<u>Replacement Revenue</u>						
3000 Transfer from Operating	41,606	41,604	41,604	41,606	41,606	71,606
3100 Interest Earned	2,848	2,319	5,348	3,000	4,201	4,000
Total Revenue	\$ 44,454	\$ 43,923	\$ 46,952	\$ 44,606	\$ 45,807	\$ 75,606

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2020 Equipment Replacement Budget

EXPENDITURES	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Budget	FY2019 Projected Year-End	FY2020 Budget
<u>Replacement Expenditures</u>						
4000 Replacement Expenses	\$7,980	\$7,555	\$42,783	\$96,500	75,116	83,500
	<u>\$7,980</u>	<u>\$7,555</u>	<u>\$42,783</u>	<u>\$96,500</u>	<u>\$75,116</u>	<u>\$83,500</u>

DETAIL: Equipment & Replacement

Pista Grit Suction tube	5,500	Tier 1
Replace lift station pump	8,000	Tier 1
Impeller & volute wear ring for Flygt pump	3,000	Tier 1
Ducking skimmer arm mechanism	12,000	Tier 1
Replace winch for pulling lift station pumps & skim	3,000	Tier 1
Rebuild Ducking skimmer arm & arm supports	5,000	Tier 1
Replace wooden doors w/fiberglass	2,000	Tier 1
Repair/replace roof on headworks & other bldg	45,000	Tier 1
	<u>83,500</u>	

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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 October 2019

Submitted by Alliance Water Resources, Inc. for the

November 2019

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	1.5	1.8	N/A	< 20		0.18	< 4.8	< 1.0
Peak Day	1.7	2.0	7.8	< 20		0.64	< 4.8	< 1.0
Percent Removal	98.9	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		2.2	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.683 MGD or 56% of Permitted flow with Lake Ozark contributing 13% of the total flow and Osage Beach contributing 87%. 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 58842 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 50 tanker loads of bio-solids during the month equivalent to a total of 185,000 gallons and 54,742 pounds dry weight solids.

364,679 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 427,500 gallons with a level of 7.5 feet in Tank 1 and 2.0 feet in Tank 2.

WASTEHAULERS

The plant received 40 loads of septage during the month totaling 97,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

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

SAFETY

- We conducted our monthly routine Safety Meeting on Fire Safety & Laboratory Chemical Hygiene on the 30th of October.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 6th of November.

MISCELLANEOUS AND RECOMMENDATIONS

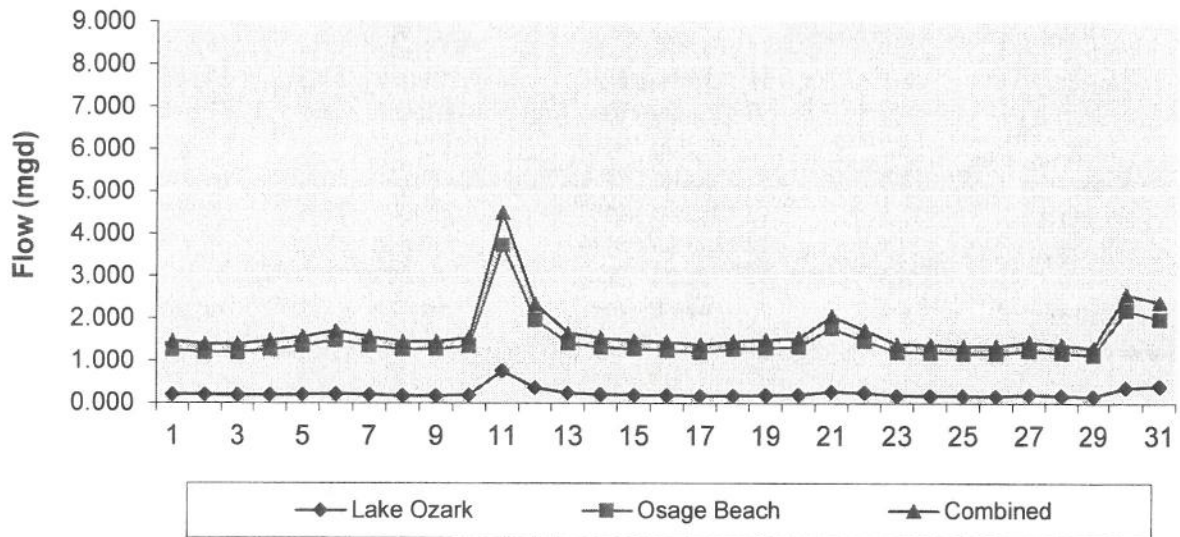
- We advertised the invitation to bid the RAS/WAS MCC replacement project on the 28th of October in the Lake Sun legal notice section. We emailed out four bid packages to interested vendors, Enviro-Line Co., ECCO Electric, Catalyst Electric and JCI Industries. Sealed bids will be accepted until 11am November 15th. We will bring a bid tabulation sheet to the Joint Sewer Board meeting for discussion and approval.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF October 2019

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-Oct	0	0.203	1.260	1.463	13.9	86.1						
2-Oct	0	0.196	1.199	1.395	14.1	85.9						
3-Oct	0.2	0.190	1.200	1.390	13.7	86.3						
4-Oct	0	0.193	1.275	1.468	13.1	86.9	245	133	133	384	124	198
5-Oct	0	0.202	1.363	1.565	12.9	87.1						
6-Oct	0	0.215	1.487	1.702	12.6	87.4						
7-Oct	0.4	0.201	1.364	1.565	12.8	87.2						
8-Oct	0	0.171	1.274	1.445	11.8	88.2						
9-Oct	0	0.173	1.281	1.454	11.9	88.1						
10-Oct	1.75	0.192	1.350	1.542	12.5	87.5	398	190	153	414	152	186
11-Oct	3.75	0.765	3.733	4.498	17.0	83.0						
12-Oct	0	0.367	1.969	2.336	15.7	84.3						
13-Oct	0	0.239	1.421	1.660	14.4	85.6						
14-Oct	0	0.208	1.327	1.535	13.6	86.4						
15-Oct	0.0	0.191	1.288	1.479	12.9	87.1						
16-Oct	0.1	0.188	1.250	1.438	13.1	86.9						
17-Oct	0	0.174	1.206	1.380	12.6	87.4						
18-Oct	0	0.177	1.280	1.457	12.1	87.9	188	210	135	166	202	170
19-Oct	0	0.188	1.311	1.499	12.5	87.5						
20-Oct	0.4	0.203	1.330	1.533	13.2	86.8						
21-Oct	1.3	0.283	1.780	2.063	13.7	86.3						
22-Oct	0	0.253	1.478	1.731	14.6	85.4						
23-Oct	0	0.180	1.217	1.397	12.9	87.1						
24-Oct	0	0.180	1.200	1.380	13.0	87.0	133	113	120	78	106	146
25-Oct	0.2	0.178	1.175	1.353	13.2	86.8						
26-Oct	0	0.170	1.180	1.350	12.6	87.4						
27-Oct	0.25	0.197	1.245	1.442	13.7	86.3						
28-Oct	0	0.180	1.195	1.375	13.1	86.9						
29-Oct	0	0.164	1.142	1.306	12.6	87.4						
30-Oct	2.5	0.370	2.203	2.573	14.4	85.6						
31-Oct	0.25	0.403	1.988	2.391	16.9	83.1						
SUM	11.1	7.194	44.971	52.165								
AVG		0.232	1.451	1.683	14	86	241	162	135	261	146	175
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

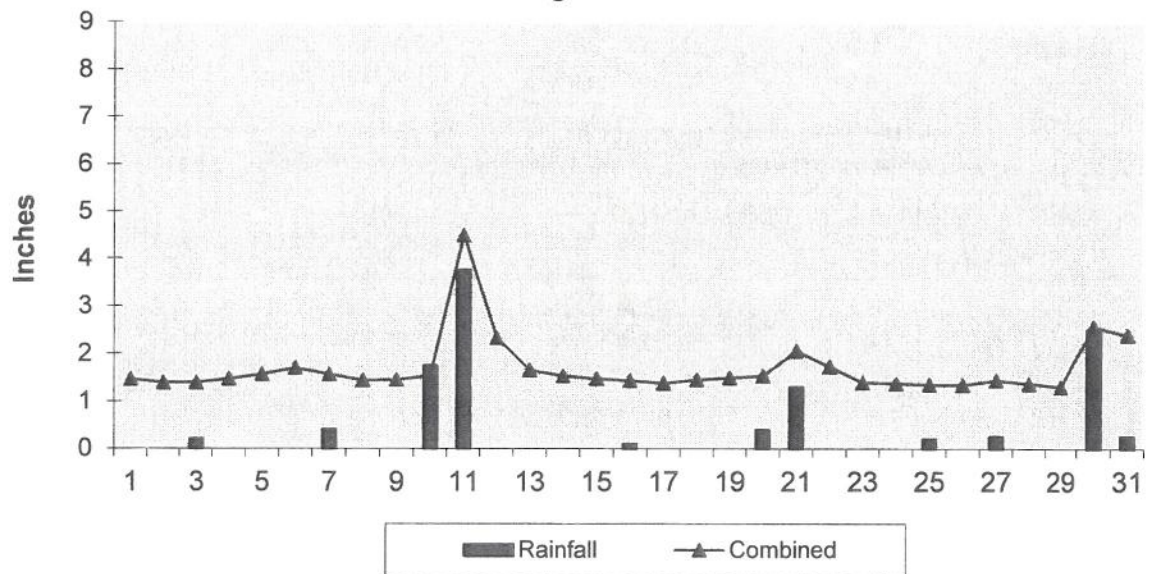
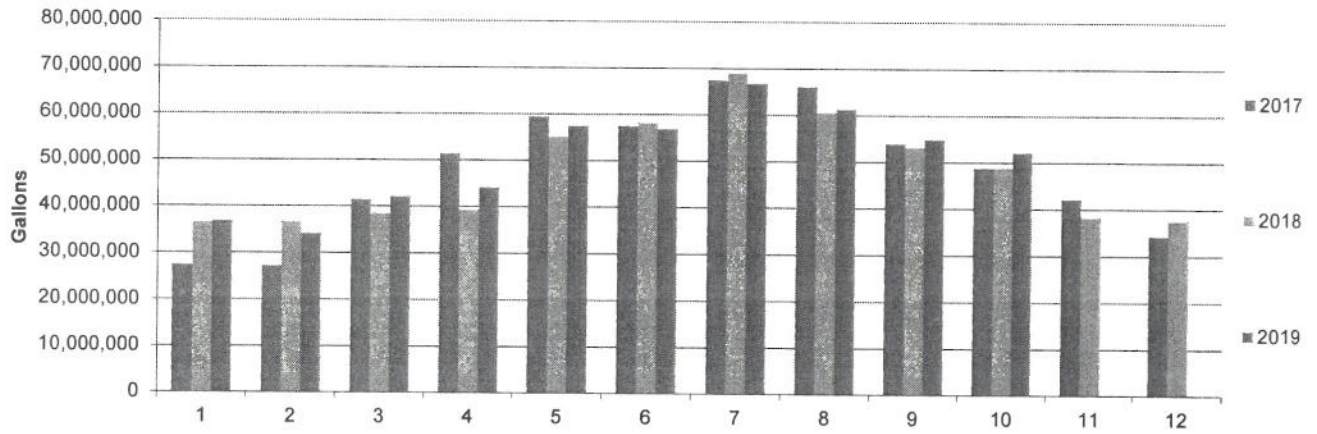


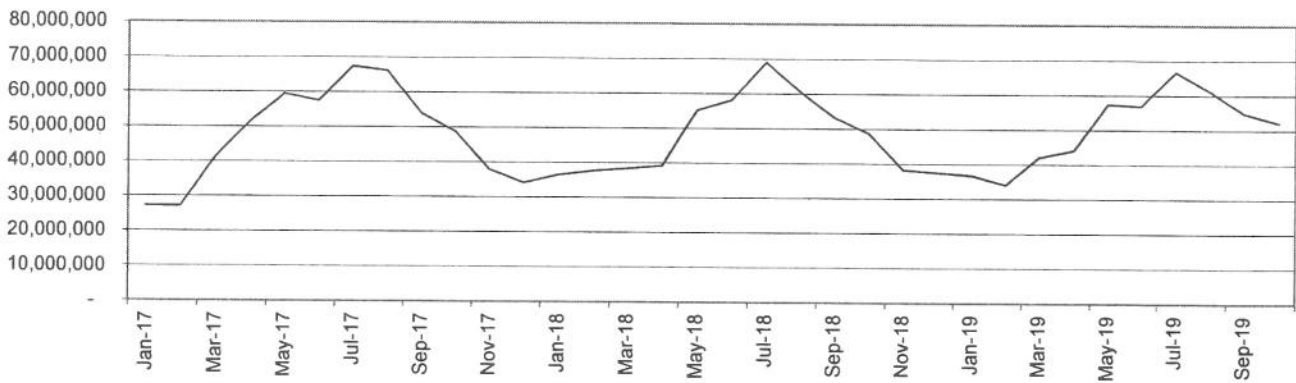
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2017</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8	44,665,000	87%	6,723,000	13%	51,388,000	100%
May	8.1	51,527,000	87%	7,979,000	13%	59,506,000	100%
June	2.9	50,926,000	88%	6,618,000	12%	57,544,000	100%
July	5.2	59,347,000	88%	8,092,000	12%	67,439,000	100%
August	12.4	57,736,000	87%	8,409,000	13%	66,145,000	100%
September	1.5	47,096,000	87%	6,866,000	13%	53,962,000	100%
October	7.4	42,489,000	87%	6,332,000	13%	48,821,000	100%
November	0.5	37,947,000	90%	4,244,000	10%	42,191,000	100%
December	0.9	30,459,000	89%	3,808,000	11%	34,267,000	100%
	55.6	505,531,000	88%	71,636,000	12%	577,167,000	100%
<u>2018</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%
<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
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						-	
December						-	
	57.9	437,396,000	86%	69,272,000	14%	506,668,000	100%

Monthly Influent Flow
Figure 3A

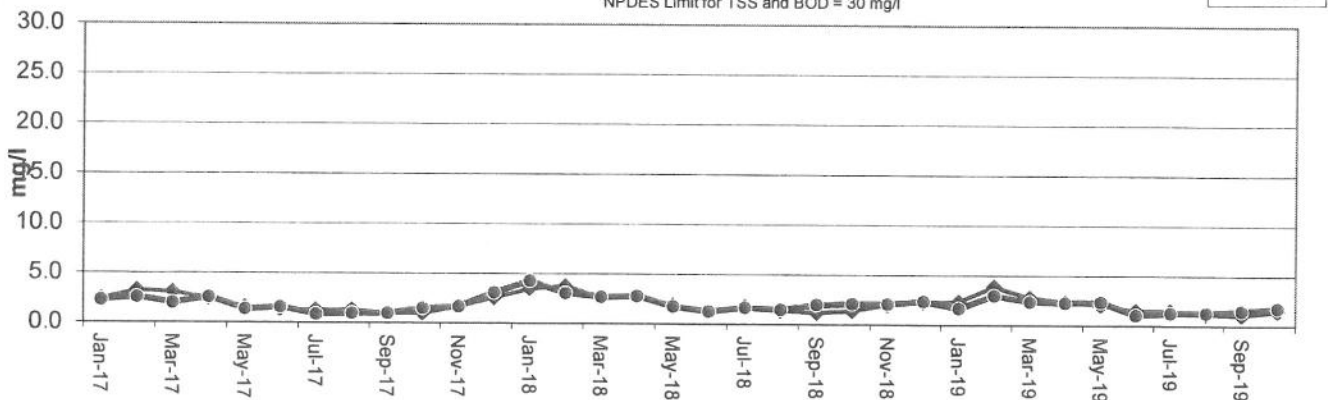


Monthly Influent Flow
Figure 3B



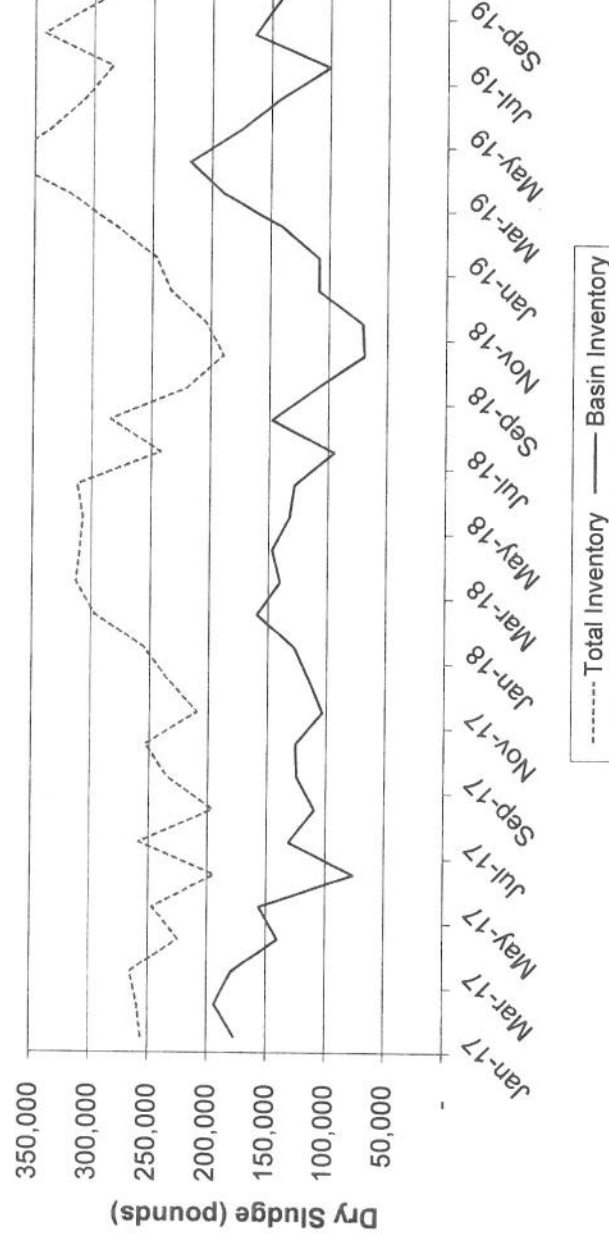
Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

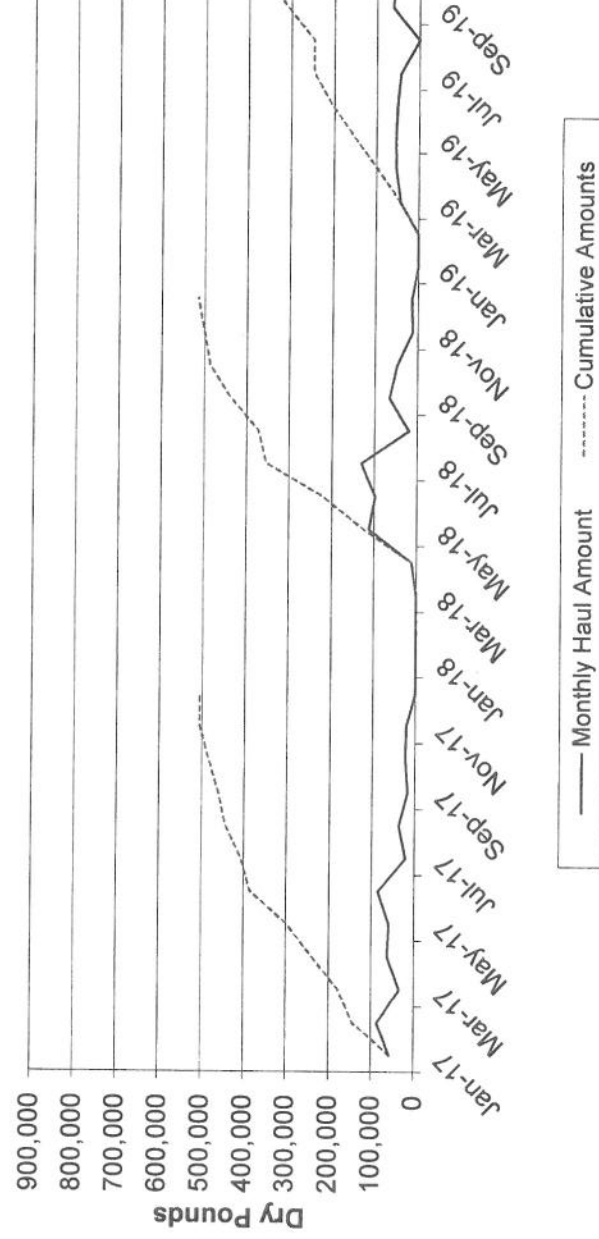


	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clarif #1	Clarif #2	Clarif #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-17	47	173,000	56,748	3.9%	56,748	6.0	6.0	0.0	540,000	177,132	1.0	0.0	1.0	-	5,080	1,861,190	78,853	0.00508	255,986	15	37,500
Feb-17	68	251,600	86,649	4.1%	143,397	5.5	7.0	0.0	562,500	193,720	1.5	0.0	2.0	-	4,090	1,913,499	85,271	0.00409	258,991	5	12,500
Mar-17	33	122,100	34,808	3.4%	178,205	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,896,714	85,420	0.0054	265,019	41	102,500
Apr-17	59	218,300	61,994	3.4%	240,199	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	224,939	8	20,000
May-17	51	188,700	59,556	3.8%	299,755	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00295	246,426	45	116,000
Jun-17	75	277,500	85,724	3.7%	385,479	2.5	3.0	0.0	247,500	76,457	3.0	2.5	1.5	4,530	3,000	3,762,833	118,153	0.00377	194,610	33	82,500
Jul-17	20	74,000	21,531	3.5%	407,110	4.5	5.5	0.0	450,000	131,540	1.0	1.0	0.5	4,670	3,650	3,657,238	126,886	0.00416	258,426	43	107,500
Aug-17	39	144,300	37,030	3.1%	444,140	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	196,173	41	103,500
Sep-17	16	59,200	17,311	3.5%	461,451	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	234,892	48	122,000
Oct-17	20	74,000	23,051	3.7%	484,502	8.0	1.0	0.0	405,000	126,158	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	253,182	10	23,500
Nov-17	20	74,000	21,292	3.4%	505,794	4.5	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,060	3,666,119	108,250	0.00348	209,832	7	17,500
Dec-17	0	-	0	3.4%	505,794	6.0	3.0	0.0	405,000	114,842	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792	7	17,500
Jan-18	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Jul-18	126	486,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026	42	107,000
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132	45	113,500
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409	21	59,500
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809	8	21,500
Dec-18	14	51,800	14,688	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494	22	55,000
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	140,362	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	585,000	189,462	0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033	9	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	54,866	3.6%	151,945	8.0	5.0	0.0	585,000	177,036	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	3,763,810	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	0.00489	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

Sludge Inventory



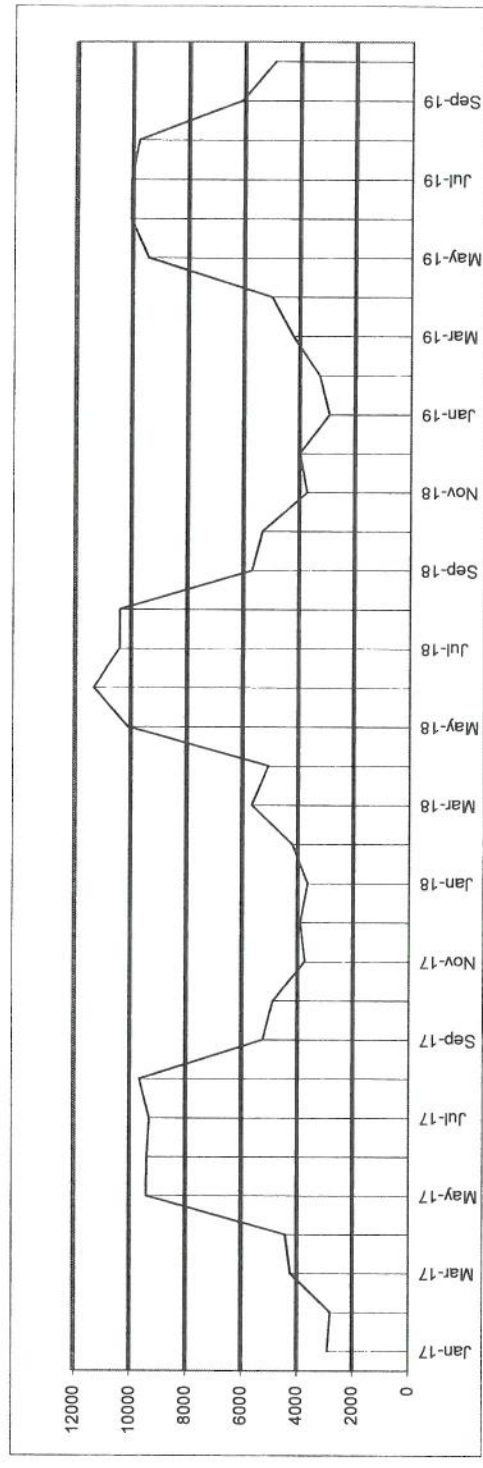
Hauled Sludge Summary



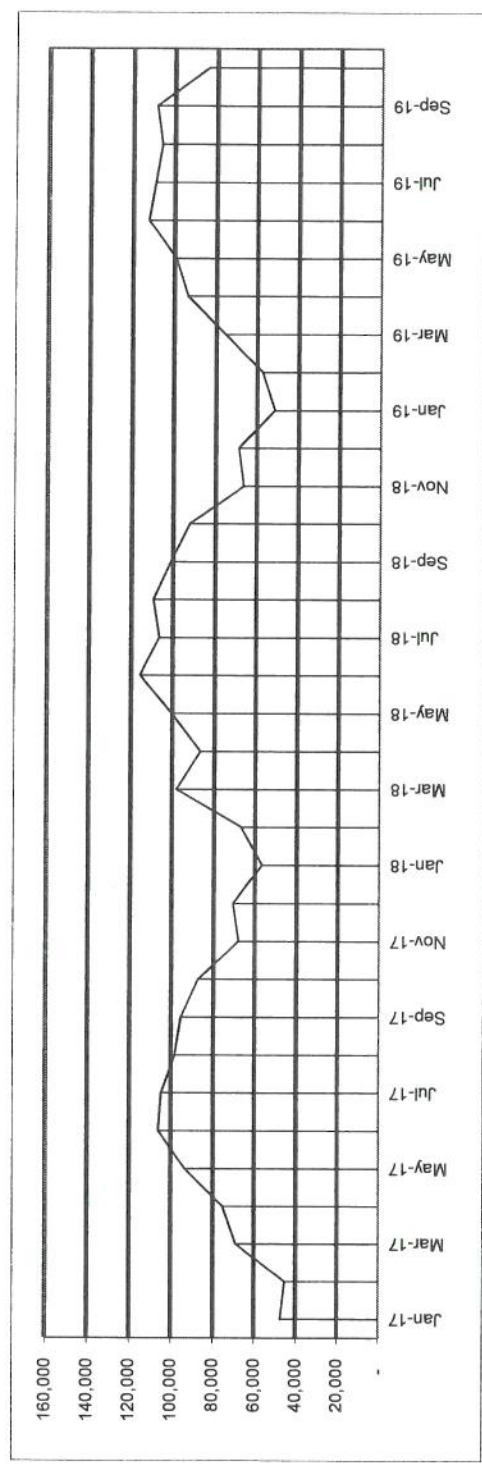
Electric Cost Kilowatts Used

Jan-17	2904	47,480
Feb-17	2796	45,240
Mar-17	4233	69,210
Apr-17	4411	75,480
May-17	9413	93,494
Jun-17	9388	106,070
Jul-17	9310	104,700
Aug-17	9666	98,220
Sep-17	5246	95,470
Oct-17	4874	87,240
Nov-17	3738	68,100
Dec-17	3909	70,820
Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
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

Electric Cost



Kilowatts Used





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

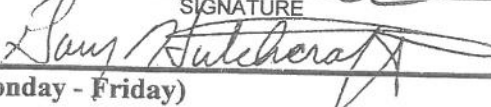
NAME OF FACILITY						LOCATION ADDRESS & CITY								COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road								Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Oct-19		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
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	7.3			22.5	1.716	7.7				5.2		23.7			
2	7.3			23.5	1.636	7.8			0.04	6.3		24.2			
3	7.3			22.0	1.632	7.7				5.8		23.1			
4	7.3	133	198	22.1	1.620	7.8	1.3	1.5		6.5		22.2	99.0	99.2	
5	7.3			21.9	1.564	7.7				6.7		21.2			
6	7.1			21.4	1.798	7.6				6.3		20.7			
7	7.4			20.0	1.681	7.7				6.6	< 20	19.8			
8	7.4			20.0	1.599	7.7				6.4		19.5			
9	7.3			20.6	1.530	7.7			0.20	6.9		19.1			
10	7.3	153	186	21.4	1.579	7.6	1.7	1.7		6.0		19.7	98.9	99.1	
11	7.1			18.5	5.148	7.5				4.0		19.3			
12	7.2			18.3	2.640	7.5				5.8		17.4			
13	7.4			17.9	1.893	7.7				6.6		16.4			
14	7.4			18.2	1.686	7.7				6.8	< 20	17.1			
15	7.2			20.2	1.617	7.7				6.7		18.4			
16	7.4			18.2	1.569	7.7				6.8		17.2			
17	7.3			18.6	1.602	7.6			0.01	7.0		16.8			
18	7.1	135	170	18.2	1.701	7.6	1.5	2.0		7.1		17.0	98.9	98.8	
19	7.1			19.0	1.636	7.6				7.3		16.7			
20	7.1			19.3	1.753	7.7				6.8		17.3			
21	7.0			19.3	2.307	7.5				5.7	< 20	17.7			
22	7.3			18.6	1.731	7.7			0.01	6.9		17.0			
23	7.1			18.7	1.594	7.8				7.4		16.4			
24	7.1	120	146	18.4	1.608	7.7	1.5	1.9		7.7		16.3	98.8	98.7	
25	6.7			18.6	1.655	7.8				7.6		15.8			
26	7.2			18.6	1.546	7.6				8.1		15.4			
27	6.9			17.7	1.734	7.6				7.9		14.7			
28	7.3			16.9	1.589	7.6				7.4	< 20	15.3			
29	6.7			17.2	1.573	7.8				7.8		15.0			
30	7.1			16.3	3.059	7.4			0.64	5.2		14.5			
31	7.3			14.8	3.034	7.5				7.7		13.1			
Total					59.030										
Avg		135	175	19.3	1.904		1.5	1.8	0.18	6.7	< 20	18.0	98.9	99.0	
Min	6.7	120	146	14.8	1.530	7.4	1.3	1.5	0.01	4.0	< 20	13.1	98.8	98.7	
Max	7.4	153	198	23.5	5.148	7.8	1.7	2.0	0.64	8.1	< 20	24.2	99.0	99.2	

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	< 4.8	< 1.0	300	269	2.0	< 0.10	32.7	1.8	< 5.0	< 10.0
2										
3										
4										
5										
6										
7										
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11										
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22										
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24										
25										
26										
27										
28										
29										
30										
31										
Total	< 4.8	< 1.0	300	269	2.0	< 0.10	32.7	1.8	< 5.0	< 10.0
Avg	< 4.8	< 1.0	300	269	2.0	< 0.10	32.7	1.8	< 5.0	< 10.0
Min	< 4.8	< 1.0	300	269	2.0	< 0.10	32.7	1.8	< 5.0	< 10.0
Max	< 4.8	< 1.0	300	269	2.0	< 0.10	32.7	1.8	< 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				* 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	3,518	2.4	4,670	760	23.4	2.0	4,950	740	23.5	68	0	7:30
2	7,036	3.3	5,320	730	23.5	2.0	4,920	690	23.8	68	0	7:30
3		3.4	5,550	700	22.5	1.4	4,860	710	23.0	65	0.2	7:30
4	6,480	4.0	5,150	730	21.4	2.7	4,910	630	21.6	56	0	7:30
5		4.7	5,020	770	20.8	4.2	4,350	690	21.1	59	0	7:30
6		4.5	4,690	750	20.6	4.8	4,300	700	20.8	60	0	7:30
7		3.6	4,610	750	19.2	3.6	4,700	780	19.5	48	0.4	7:30
8	6,480	4.6	5,040	850	18.7	3.6	4,290	650	18.8	46	0	7:30
9	6,480	4.0	4,810	810	18.6	4.6	4,740	760	18.8	46	0	7:30
10		1.6	3,970	760	19.9	1.8	4,440	750	19.9	64	1.75	7:30
11		1.7	3,690	560	19.1	1.5	4,440	700	19.0	46	3.75	7:30
12		3.9	4,070	620	17.6	4.5	4,390	720	17.9	37	0	7:30
13		4.7	4,730	780	16.8	5.2	4,030	600	17.0	43	0	7:30
14		4.4	4,040	730	17.2	4.3	4,550	700	17.4	44	0	7:30
15		4.4	4,470	740	18.3	3.0	4,880	780	18.4	60	0	7:30
16	2,962	4.8	4,980	740	16.8	4.0	4,180	680	17.2	44	0.1	7:30
17	1,975	4.8	4,820	770	15.8	4.0	4,350	640	16.6	40	0	7:30
18	2,870	4.2	4,670	740	16.8	4.6	4,500	720	16.8	46	0	7:30
19		4.6	4,540	780	16.7	5.1	4,290	680	17.2	50	0	7:30
20		3.7	4,750	740	17.4	4.5	4,260	620	17.4	54	0.4	7:30
21		1.4	4,230	650	17.5	1.6	4,680	750	17.7	59	1.3	7:30
22		4.3	4,620	700	17.3	4.3	4,180	640	17.1	48	0	7:30
23	6,665	5.1	4,700	760	16.2	5.3	4,200	660	16.3	44	0	7:30
24		5.2	4,630	750	16.2	5.3	4,530	660	16.4	51	0	7:30
25		5.1	4,450	690	15.8	3.3	4,330	620	16.0	47	0.2	7:30
26		5.7	4,390	710	15.9	5.6	4,220	600	15.8	48	0	7:30
27		4.8	4,510	700	14.8	5.4	4,210	630	15.1	42	0.25	7:30
28	10,276	4.3	4,370	720	15.6	3.3	4,290	700	15.9	50	0	7:30
29		4.9	4,340	570	14.7	3.6	4,680	710	15.0	42	0	7:30
30		2.3	3,410	450	14.8	2.2	4,690	730	14.9	40	2.5	7:30
31		5.2	4,170	590	12.8	5.4	4,350	680	13.5	33	0.25	7:30
COMMENTS:												

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 11/6/2019
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 11/6/2019

*Required Daily (Monday - Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	10	01		2019	10	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTD	*****	*****	*****	1.7	1.5	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQMNT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****	*****	*****	98.8	Monthly	Calculated
Stage Type: End of Pipe	REQMNT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Escherichia coli (E. coli) (51040)	REPORTD	*****	*****	*****	<20	<20	Weekly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	*****	7 Day Geometric : 630	30 Day Geometric Mean : 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTD	5.148	1.904	Mgal/d	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	*****	0.64	0.18	Weekly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	*****	Daily Maximum : 11.5	Monthly Average : 2.2	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****	*****	<4.8	<4.8	Monthly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	*****	Daily Maximum : 15	Monthly Average : 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	*****	7.4	7.8	Weekly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	*****	Minimum : 6.5	Maximum : 9.0	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS:

OUTFALL-SPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

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.

OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	573-365-0455	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 1

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	10	01		2019	10	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****	<1.0	*****	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	Daily Maximum : 9.1	*****	Monthly Average : 3.6	Monthly	Grab
Suspended Solids, percent removal (81011)	REPORTD	*****	*****	*****	*****	98.7	Monthly	Calculated
Stage Type: End of Pipe	REQMNT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	2.0	1.8	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQMNT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	Weekly	24 Hour Composite

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OUTFALL-SPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	573-365-0455	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 2

PERMITTEE NAME/ADDRESS

State of Missouri

Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)

Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
-------------------	--	--	--	--	--

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	10	01		2019	10	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

Parameter		MASS		Unit	CONCENTRATION		Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTD	*****	*****		269	*****	269	Monthly	Grab	
Stage Type: Instream Monitoring	REORMNT	*****	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Monthly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:

OUTFALL-SPECIFIC COMMENTS:

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
TYPED OR PRINTED NAME	SIGNATURE	Date	

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM 2019 10 01 TO 2019 12 31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Cadmium, total recoverable (01113)	REPORTD	*****	*****	<5.0	*****	<5.0	Quarterly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab
Copper, total recoverable (01119)	REPORTD	*****	*****	<10.0	*****	<10.0	Quarterly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab
Nitrogen, total (as N) (00600)	REPORTD	*****	*****	32.7	*****	32.7	Quarterly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab
Phosphorus, total (as P) (00665)	REPORTD	*****	*****	2.0	*****	2.0	Quarterly	Grab
Stage Type: End of Pipe	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
Gary F Hutchcraft	Gary F Hutchcraft		2019-11-06 10:01:59
TYPED OR PRINTED NAME	SIGNATURE		Date

Page 1

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM1 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM 2019 10 01 TO 2019 12 31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Nitrogen, total (as N) (00600)	REPORTD	*****	*****	1.8	*****	1.8	Quarterly	Grab
Stage Type: Instream Monitoring	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab
Phosphorus, total (as P) (00665)	REPORTD	*****	*****	<0.10	*****	<0.10	Quarterly	Grab
Stage Type: Instream Monitoring	REQMNT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Quarterly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
Gary F Hutchcraft	Gary F Hutchcraft		2019-11-06 10:01:59
TYPED OR PRINTED NAME	SIGNATURE		Date

Page 2

FOR OCTOBER 2019

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

Date 11/6/2019