

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
APRIL 17, 2018 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Johnnie Franzeskis
Mayor, Osage Beach, John Olivarri
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Lake Ozark, Gerry Murawski
Alderman, Osage Beach, Richard Ross
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting; March 20, 2018 3- 4

4. REPORTS

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March, 2018 Alliance Report of Operations	43-57
Approval of March Flow Chart	

5. OLD BUSINESS

- A. Report of Contract Review Sub Committee
- B. Discussion and possible action regarding the Generator Project.

6. NEW BUSINESS:

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE MAY 15, 2018, 4:00 PM @ LAKE OZARK CITY HALL

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**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – March 20, 2018**

CALL TO ORDER:

Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, March 20, 2018 at Osage Beach City Hall

ROLL CALL:

Mayor, Lake Ozark, Johnnie Franzeskos - Present
Mayor, Osage Beach, John Olivarri- Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee - Present
Alderman Osage Beach, Richard Ross - Present
Alderman Lake Ozark, Gerry Murawski - Present
Public Works Director Osage Beach, Nick Edelman - Present
Public Works Director Lake Ozark, Matt Michalik - Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Public Works Director Michalik motioned to approve the meeting minutes of February 20, 2018. The motion was seconded by Alderman Murawski. The motion passed unanimously.

REPORTS:

City Administrator Woods motioned to approve the February Bills List. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

The February Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. Motion was made by Mayor Olivarri to acknowledge the review of the documents. Seconded by Alderman Murawski. Motion passed unanimously. A short discussion ensued regarding LED lighting vs. sodium vapor lights.

Alliance Report of Operations: The average daily incoming flow for February was 1.311 mgd. We had 5.4 inches of precipitation measured at the WWTP in February.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 3.8 mg/l and TSS of 3.1 mg/l respectively for February, which represents a 98% or better removal.

The MLSS average for both aeration basins was 4,718 mg/l in February. The total dry weight sludge inventory for February totaled 297,113 pounds. There were no tanker loads of biosolids land applied in February. We also received 16 tanker loads or 40,000 gallons of septage for the month of February.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Edelman to approve the Flow Chart, seconded by Public Works Director Michalik, motion passed unanimously.

OLD BUSINESS:

- A. Discussion regarding forming a sub-committee to consider the Alliance Contract renewal. Mayor Olivarri noted that it has been some time since the Contract was placed out for bid. It was the consensus that Alliance was doing a great job, but due diligence is necessary to protect all parties involved. A motion was made by Alderman Murawski that the two Public Works Directors and the two City Administrators should be on the Committee. His motion was seconded by Mr. Hamner and all voted in favor. It was noted that any member was welcome to attend any meetings they wished to.
- B. Discussion and possible action on RFQ's regarding the generator project. Mr. Hutchcraft briefly reviewed the four RFQ's that have been received. Discussion ensued regarding the differences between the four submissions. Mr. Hutchcraft noted that Alliance personnel will disseminate the RFQ's and report back to the Board at the April meeting.

NEW BUSINESS:

- A. Discussion and possible action regarding insurance coverage. The separate options submitted by Naught Naught Agency regarding insurance coverage were reviewed. Discussion turned to Cyber Risk and Terrorism. A motion was made by City Administrator Woods to proceed with Option 1 (one year renewal) with the addition of the Directors and Officers Liability. Her motion was seconded by Alderman Murawski. The motion passed unanimously.

ADJOURNMENT:

With no further business to discuss, a motion to adjourn was made by Alderman Murawski. His motion was seconded by City Administrator Woods and was passed unanimously. The meeting adjourned at 4:35 pm.

Approved On:

Mayor, Johnnie Franzekos

City Clerk, Kathy Vance

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JOINT SEWER BOARD
BILL LIST
APRIL 17, 2018

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 16,587.00
OPERATING FUND BILLS TO BE PAID:	\$ 37,045.12
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 53,632.12

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4140	3651	Naught-Naught	4/10/18-4/11/19	\$ 16,587.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
			TOTAL	\$ 16,587.00

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4185	3652	Ameren MO	Mar. Service	\$ 5,666.54
4000	3653	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4170	3654	Alliance Water Resources, Inc.	Management Fee	\$ 26,584.22
4160	3555	Alliance Water Resources, Inc.	Hauled Waste	\$ 300.00
4020	3556	Alliance Water Resources, Inc.	Calibration & Battery 50%	\$ 277.36
4140	3557	Naught-Naught	Board Liability	\$ 750.00
				\$ -
			TOTAL	\$ 37,045.12

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

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1.877.428.3736
PO Box 88068 Chicago, IL 60680-1068
Ameren payment processing center

FOCUSED ENERGY. For life.

Account Number 4580005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD.
LAKE OZARK, MO 65048

Current Detail for Statement: 04/10/2018

Total Electric Charges \$5,489.07

Total Amount Due \$5,489.07

AMOUNT DUE \$5,489.07

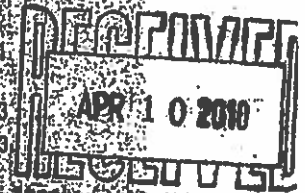
Due Date 05/01/2018

Amount After Due Date \$5,551.11

Previous Statement \$4,038.83

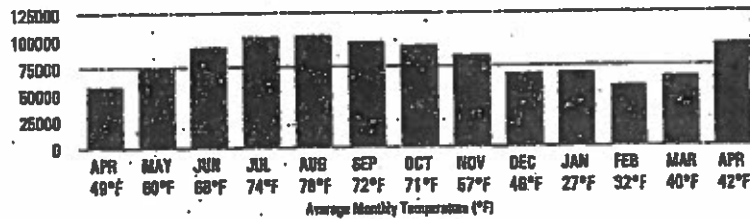
Total Payments \$4,038.83

Thank you for your payment.



Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 38.7% more than last year.

2017 204,320 kWh

2018 285,440 kWh

Usage from Jan-Apr for 2017 & 2018

13073 00104 2318890 0002 092139 102

» See next page for service details.

Keep this portion for your records.

Page 1 of 4

Please return this portion with your payment.



☐ Check if you have address changes on back.

Amount Due	Due Date
Delinquent Amount After Due Date	Account Number

Amount Enclosed \$

>000104 2318890 0002 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65048-1985

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

00600000 0045800058302 000005469070 000005469070



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FOCUSED ENERGY. For life.

Electric Service Details

Service from 03/07/2018 - 04/08/2018 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	03/07 - 04/08	32	Total kWh	Actual	46885.0000	46298.0000	588.0000	180.0000	85380.0000

Usage Summary

Total kWh	85380.0000	Peak kW	186.8000
Total Billing Demand	186.8000	October Winter Base kW	131.2000
Winter Base Demand	131.2000	Base kWh Ratio	0.7031
Base kWh (HUD)	67048.0000	Seasonal kWh (HUD)	28312.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	28,312.00	kWh	@ \$ 0.03880000	\$1,101.34
Demand Charge	186.80	kW	@ \$ 2.00000000	\$373.20
Base Energy Charge / Hours Used	19,680.00	kWh	@ \$ 0.06650000	\$1,308.72
Base Energy Charge / Hours Used	26,240.00	kWh	@ \$ 0.04940000	\$1,298.28
Base Energy Charge / Hours Used	21,128.00	kWh	@ \$ 0.03880000	\$821.88
Customer Charge				\$85.07
Fuel Adjustment Charge	85,380.00	kWh	@ \$ 0.00027000	\$25.75
Energy Efficiency Program Charge	85,380.00	kWh	@ \$ 0.00020000	\$18.07
Energy Efficiency Investment Charge	85,380.00	kWh	@ \$ 0.00448800	\$427.78
Total Service Amount				\$5,469.07
Total Electric Charges				\$5,469.07

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
March 28, 2018	\$4,038.53

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

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Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



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866.268.3729



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PAYSTATION



ONLINE
CREDIT CARD



MAIL
STUB & CHECK



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 1.877.426.8738
 PO Box 88088 Chicago, IL 60680-1068
 Ameren payment processing center

FOCUSED ENERGY. For life.

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

Current Detail for Statement 04/10/2018

Total Electric Charges \$197.47

Total Amount Due \$197.47

AMOUNT DUE \$197.47

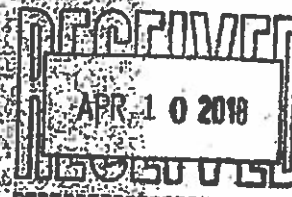
Due Date 05/01/2018

Amount After Due Date \$200.49

Previous Statement \$168.87

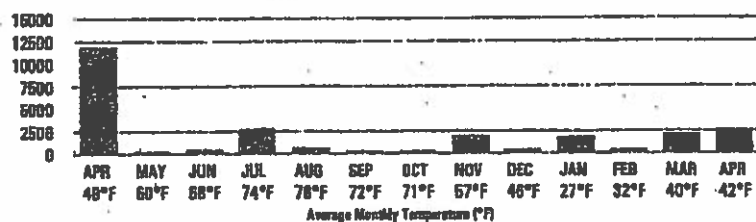
Total Payments \$168.87

Payment Received, Thank You



Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 54.2% less than last year.

2017 15,428 kWh

2018 7,070 kWh

Usage from Jan-Apr for 2017 & 2018

13073 00226 2314890 0002 092139 102

See next page for service details.

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Amount Due	Due Date
\$197.47	05/01/2018
Delinquent Amount After Due Date	Account Number
\$200.49	5580005920

Amount Enclosed \$

>000226 2314890 0002 092139 102

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

AMEREN MISSOURI
 PO BOX 88088
 CHICAGO IL 60680-1068

70633000 0055400059200 000000197470 000000197470



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 ■ PO Box 88068 Chicago, IL 60680-1068
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Electric Service Details

Service from 03/07/2018 - 04/08/2018 (32 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
88041275	03/07 - 04/08	32	Total kWh	Actual	16838.0000	16674.0000	285.0000	10.0000	2650.0000

Usage Summary

Total kWh	2650.0000	Winter Base kWh	1000.0000
Current Base kWh	1000.0000	Seasonal kWh	1650.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	1,000.00	kWh	@ \$ 0.08360000	\$83.60
Seasonal Energy Charge	1,650.00	kWh	@ \$ 0.04820000	\$79.53
Customer Charge				\$21.43
Fuel Adjustment Charge	2,650.00	kWh	@ \$ 0.00027000	\$0.72
Energy Efficiency Program Charge	2,650.00	kWh	@ \$ 0.00010000	\$0.27
Energy Efficiency Investment Charge	2,650.00	kWh	@ \$ 0.00448800	\$11.82
Total Service Amount				\$197.47
Total Electric Charges				\$197.47

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
March 28, 2018	\$188.57

Questions? Contact Ameren Missouri at 1.877.428.3736 or visit AmerenMissouri.com.

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Address Changes or Corrections

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 Address _____
 City, State, Zip _____
 Phone Number _____

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MAIL MAIL STUB & CHECK

IN PERSON
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PAYSTATION

Alliance Water Resources, Inc.
Professional Water and Wastewater Operations
 208 South Keans Street
 Columbia, Missouri 65201
 (573) 874-8080 Fax (573) 443-0833

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board
 c/o Karl Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 65065

INVOICE

Invoice No: 7778

Invoice Date: 1-Apr-18

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Apr-2018 Base Fee	\$26,584.22
TOTAL DUE		\$26,584.22

Alliance Water Resources, Inc.
Professional Water and Wastewater Operations
 208 South Keene Street
 Columbia, Missouri 65201
 (573) 874-8080 Fax (573) 443-0633

SOLD TO:
 Lake Ozark/Osage Beach Joint Utility Board
 c/o Karl Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 65065

INVOICE

Invoice No: 7777

Invoice Date: 1-Apr-18

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payment for the month of: Mar-2018 6 Hauled Waste Loads @ \$50.00 each	\$300.00
TOTAL DUE		\$300.00

Alliance Water Resources, Inc.
Professional Water and Wastewater Operations
 206 South Keene Street
 Columbia, Missouri 65201
 (573) 874-8080 Fax (573) 443-0833

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board
 c/o Karri Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 65066

INVOICE

Invoice No: 7779

Invoice Date: 1-Apr-18

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Cole-Parker - Invoice # 1421853 - 60%	\$124.88
	Haynes Equipment - Invoice # 18280L - 50%	\$152.50
TOTAL DUE		\$277.38



Invoice

Phone: 1-847-549-7600
 Fax: 1-847-247-2929
 Web: WWW.COLEPARMER.COM

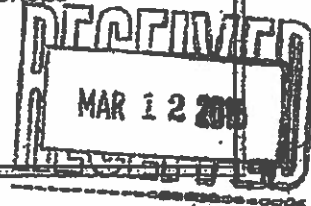
Page 1 of 2

Remittance Address	
13927 Collections Center Drive Chicago, IL 60693-0139	
Federal Tax ID	Duns #
36-2360953	00-885-2253

Invoice #	PO #
1421853	GHUTHCRAFT022218
Invoice Date	Invoice Amount
03/08/2018	\$249.73
Reference #	Terms
8455432-00	Net 30 Days

Billing Address 645024-02
ALLIANCE WATER RESOURCES ACCOUNTS PAYABLE PO BOX 1985 LAKE OZARK, MO 65049-1985

Shipping Address 645024-01
ALLIANCE WATER RESOURCES GARY HUTCHCRAFT 3 ANDERSON RD LAKE OZARK, MO 65049 U.S.A.



Shipping Info:	SHIPPED 03/08/2018, UPS.GND, 1 CARTON(S), 2 lbs TOTAL WEIGHT, TRACKING NUMBER(S): 1Z77357W0353117031
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Invoice Comments: SERVICE RETURN 802200188 ORIGINAL REF# 8145901-00 Service Return: 802200188

Line	Qty Ord	UOM	Item#	Description	Shipped	Back- Ordered	Unit Price	Extended Price
1	1	EA	99999-62	THERMOMETER -20 - 110C Serial Number(s): J90733 NIST TRACEABLE CALIBRATION 1 YR INTERVAL CAL: 0, 4, 20, 37, 44.6, 103C SERIAL#: J90733	1			N/C
2	1	EA	17008-05	NIST CERT GLASS THERM 5-9PTS NON-CANCELABLE/NON-RETURNABLE	1		235.000	235.00

SUB-TOTAL	235.00
FREIGHT AMOUNT	14.73
TAX AMOUNT	.00
OTHER CHARGES	.00
PLEASE PAY THIS TOTAL AMOUNT	\$249.73
DUE DATE	04/05/2018

NOTES:

ORDER PLACED BY GARY HUTCHCRAFT, PHONE # 573-365-0455

Would you like to receive your invoices via email or fax rather than a hard copy through the mail? If so, just contact Tim Howard by phone 888-358-4714 x490214 or by email at tim.howard@coleparmer.com with your preferred fax number or email address.

FOR COMPLETE LIST OF APPLICABLE TERMS PLEASE VISIT US AT
www.coleparmer.com/terms-and-conditions

ANNUAL CALIBRATION OF CERT THERM.
 GL Acct#: 6705-20 \$124.87 120-20 \$124.86
 Signature: *Gary Hutchcraft*
 Date: 3/12/18

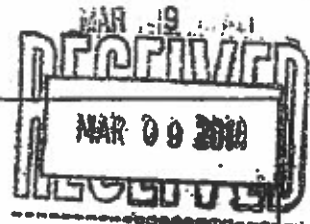


Lake of the Ozark Office
185 Beachwood Dr
Sunrise Beach, MO 64079
(573) 480-9094
Fax: 573-207-0704
www.haynesequip.com
Web: www.haynesequip.com

Invoice

Invoice Number	18280L
Invoice Date	2/27/2018

Job Number:	
Rep	TR



Sold To:
Alliance Water Resources
3 Anderson Rd
Lake Ozark, MO 65049

Ship To
Alliance Water Resources
3 Anderson Rd
Lake Ozark, MO 65049

Customer P.O.	Ship Via	FOB	Terms:
Confirm to:			

Item	Description	Rate	Qty	Amount
00-1000-1000	Ordered by Gary Hutchcraft	266.00	1	266.00
099000208	Desiccant 4oz package	8.00	2	16.00
Freight Charge		23.00	1	23.00
TOTAL: 305.00				
GL Acct#: 4705-20 1167.94 1220-20 152.50				
Signature: Gary Hutchcraft				
Date: 3/9/18				
REVISED				

Net Invoice: \$305.00
Sales Tax: (5.475%) \$15.44
Subtotal: \$320.44
Payments/Credits \$0.00

Past Due Invoices Are Subject To Late Fee's
Of 1 1/2% Per Month

Memo:

Invoice Total: \$320.44



Naught-Naught/Osage Beach
P. O. Box 187
Osage Beach, MO 65065
Phone: 573-348-2794

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

INVOICE NO. 209505		Page 1
ACCOUNT NO.	OP	DATE
LAKE-33	TS	04/11/2018
Directors & Officers Liability		
POLICY	LOAN	
EMN 0483573		
COMPANY		
Cincinnati Insurance Company		
PRODUCER		
Steve Naught		
EFFECTIVE	EXPIRATION	BALANCE DUE ON
04/10/2018	04/10/2019	

Item #	Due Date	Trn	Type	Description	Amount
9CG16K	04/11/18	NEW	DOLI	New D&O Liability	\$750.00

Invoice Balance: \$750.00

*



Naught-Naught/Osage Beach
P. O. Box 187
Osage Beach, MO 65065
Phone: 573-348-2794

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

INVOICE NO. 209286

LAKE-33 TS 03/22/2018

UPP 0007040

Cincinnati Insurance Company

Steve Naught

04/10/2018 04/10/2019

Item	Start Date	End Date	Package	Description	Amount
9CFX7Q	04/10/18	MEM	PCKG 18/19	Pkg/Auto/Umb Renewal	\$16,587.00

Invoice Balance: \$16,587.00

pd 3651

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**MONTH-TO-DATE AND YEAR-TO-DATE
REVENUE/BUDGET ANALYSIS
3/31/2018**

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 3/31/2018	2018 March Revenue	Percent YTD
3020	Osage Beach	475,802.57	478,614.41	478,500.00	121,829.35	40,382.51	25%
3010	Lake Ozark	74,197.42	71,385.58	71,500.00	15,670.64	5,450.82	22%
3100	Interest	368.52	781.57	500.00	330.00	169.27	66%
3060	Waste Haulers' Fee	33,460.00	30,500.00	34,500.00	2,700.00	600.00	8%
Total Operating Fund		583,828.51	581,281.56	585,000.00	140,529.99	46,602.60	24%
E/R Fund Income		2,847.67	2,319.07	2,300.00	410.29	196.08	18%
TOTAL INCOME		586,676.18	583,600.63	587,300.00	140,940.28	46,798.68	24%

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**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
3/31/2018**

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 3/31/2018	2018 March Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,604.17	41,604.00	10,401.17	3,467.00	25%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	0%
4020	*Maintenance & Repair	18,735.50	129,788.11	115,000.00	2,809.87	0.00	2%
4140	Insurance	16,977.00	17,144.00	17,600.00	16,652.25	16,587.00	95%
4150	Vehicle Repair/Maint	951.93	12,047.61	3,000.00	0.00	0.00	0%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	1,050.00	800.00	13%
4170	Contract Management	303,638.88	311,229.84	320,566.84	79,752.66	26,584.22	25%
4185	Electric	72,637.17	69,261.90	75,000.00	11,755.35	4,206.50	16%
4190	Bank Charges	14.85	24.35	0.00	0.00	0.00	0%
4200	Audit	2,156.50	2,200.00	2,300.00	0.00	0.00	0%
4220	Professional Service	9,193.09	1,200.00	1,200.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	150,000.00	0.00	0.00	0%
	Totals	473,912.96	592,500.98	734,270.84	122,221.30	51,644.72	17%
	**E/R Expenses	7,980.42	7,554.68	67,500.00	0.00	0.00	0%
	TOTAL EXPENSES	481,893.38	600,055.66	801,770.84	122,221.30	51,644.72	15%
**Equipment & Replacement		35,000.00					500.00
Pickup 4X4 w/snow plow		9,000.00					1,500.00
Replace Actuator		5,000.00					8,000.00
Replace ducking skimmer arm		2,000.00					8,000.00
Replace wooden doors		8,000.00					2,000.00
Replace LED parking lot lights		7,500.00					95,000.00
Replace impellers for RAS pump							
*Maintenance & Repair							
Auto Dialer Yrly Software Fee							500.00
Effluent Testing for Permit Renewal							1,500.00
Normal Maintenance							8,000.00
UV Spare Parts							8,000.00
Rock for Road							2,000.00
Sandblast & paint Clarifier #3							95,000.00
		67,500.00					115,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
3/31/2018

Beginning Balance	301,248.39
Income - Osage Beach	40,382.51
Income - Lake Ozark	5,450.82
Income - Other	-
Income - Waste Haulers' Fees	600.00
Interest - Checking	82.03
Income - CD Interest	87.24
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(48,177.72)
Ending Fund Balance	296,206.27
Central Bank - NOW Acct.	144,931.58
First Bank of the Lake - Money Mkt.	100,923.77
CD St. Elizabeth, 3/18 #400886	50,350.92
Outstanding Checks:	-
Deposit in Transit:	-
	296,206.27

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
3/31/2018

Beginning Balance	530,774.29
Interest - Checking	108.84
Income - CD Interest	87.24
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	534,437.37
First Bank of the Lake - Money Mkt.	179,550.19
CD Providence Bank, 7/18 #1268880	202,070.98
CD First Bank of the Lake, 01/18 #101318429	102,465.28
CD St. Elizabeth, 3/18 #485431	50,350.92
Deposit in Transit	-
Outstanding Checks:	-
	534,437.37

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Operating Fund
CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 10/31/17			116,235.13
3624	Ameren MO	X	4,874.43	-
3625	Equipment Replacement Fund	X	3,467.00	
3626	Alliance Water Resources, Inc.	X	25,935.82	
3627	Alliance Water Resources, Inc.	X	1,028.14	
3628	UV Doctor Lamps LLC		2,199.73	
3629	Roemer's Heavy Equip & Truck	X	2,293.40	-
	Bank charge - checks	X	24.35	-
	Deposit LO	X	-	5,831.73
	Deposit OB	X		40,001.61
	Deposit	X		700.00
	Interest	X		10.59
	reconciled balance 11/30/17			122,956.19
3630	Ameren MO	X	3,738.46	-
3631	Equipment Replacement Fund	X	3,467.00	
3632	Alliance Water Resources, Inc.	X	25,935.82	
3633	Alliance Water Resources, Inc.	X	347.95	
3634	Roemer's Heavy Equip & Truck	X	2,436.92	-
3635	Scott's Handyman Services	X	6,675.00	-
	Deposit LO	X	-	5,944.50
	Deposit OB	X		39,888.83
	Deposit	X		700.00
	Interest	X		10.59
	reconciled balance 12/31/17			126,898.96
3636	Ameren MO	X	3,909.17	-
3637	Equipment Replacement Fund	X	3,467.00	
3638	Alliance Water Resources, Inc.	X	26,584.22	
3639	Alliance Water Resources, Inc.	X	564.48	
	Deposit LO	X	-	5,126.01
	Deposit OB	X		40,707.32
	Deposit	X		500.00
	Interest	X		16.85
	reconciled balance 1/31/18			138,724.27
3640	Ameren MO	X	3,639.68	-
3641	Equipment Replacement Fund	X	3,467.00	
3642	Alliance Water Resources, Inc.	X	26,584.22	
3643	Alliance Water Resources, Inc.	X	250.00	
3644	Alliance Water Resources, Inc.	X	245.39	
3645	JCI Industries	X	1,800.00	
3646	Lake Sun Leader	X	65.25	
	Deposit LO	X	-	5,093.81
	Deposit OB	X		40,739.52
	Deposit	X		1,600.00
	Interest	X		17.26
	reconciled balance 2/28/18			150,123.32
3647	Ameren MO	X	4,206.50	-
3648	Equipment Replacement Fund	X	3,467.00	
3649	Alliance Water Resources, Inc.	X	26,584.22	
3650	Alliance Water Resources, Inc.	X	800.00	
3651	Naught Naught	X	16,587.00	
	Deposit LO	X	-	5,450.82
	Deposit OB	X		40,382.51
	Deposit	X		600.00
	Interest	X		19.65
	reconciled balance 3/31/18			144,931.58

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E/N

Central Bank
of Lake of the Ozarks
 MEMBER FDIC
 P.O. Box 4500, Jefferson City, MO 65102
 (573) 348-2761
 RETURN SERVICE REQUESTED

OSB011001011 OSB001

Fee changes effective May 1, 2018:
 Number of items to determine monthly
 maintenance fee will be 200 combined
 debits, credits, deposited items, ACH
 and/or electronic items processed per
 statement cycle.

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

Period 03/01/2018 - 03/30/2018 Page 1 of 2

Web Address
www.centralbank.net

M
 00001

YOUR FINANCIAL SUMMARY ON MARCH 30, 2018

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 144,931.58	
Bank Deposit Total		\$ 144,931.58
Total Assets:	\$ 144,931.58	\$ 144,931.58

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297	Beginning Balance February 28, 2018	\$ 153,763.00
Deposits		
Mar. 20 Deposit		5,450.82
Mar. 20 Deposit		40,382.51
Mar. 21 Deposit		600.00
Mar. 30 Interest Earned		19.65
	Total	+\$ 46,452.98
Checks		
Check No. Date Paid Amount	Check No. Date Paid Amount	
3640 Mar. 01 3,639.68	3649 Mar. 22 26,584.22	
3647 Mar. 27 4,208.50	3650 Mar. 22 800.00	
3648 Mar. 22 3,467.00	3651 Mar. 26 16,587.00	
	Total	-\$ 55,284.40
	Ending Balance March 30, 2018	\$ 144,931.58

Number of days since last statement/interest cycle 31
 Beginning and ending dates for calculation of statement/interest cycle are 03/01/2018 through 03/31/2018
 Average collected balance 154,217.00
 Interest rate 0.15%
 Annual percentage yield earned 0.15%

End of Bank Deposits

JSB - CHECK REGISTERS 2018

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 10/31/17			263,398.18
	Interest	X	108.34	263,506.52
	Deposit	X	3,467.00	266,973.52
	reconciled balance 11/30/17			266,973.52
1023	Alliance Water Resources		1,014.97	265,958.55
	Interest	X	135.36	266,093.91
	Deposit	X	3,467.00	269,560.91
	reconciled balance 12/31/17			269,560.91
	Interest	X	183.43	269,744.34
	Deposit	X	3,467.00	273,211.34
	reconciled balance 1/31/18			273,211.34
	Interest	X	157.40	273,368.74
	Deposit	X	3,467.00	276,835.74
	reconciled balance 2/28/18			276,835.74
	Interest	X	171.22	277,006.96
	Deposit	X	3,467.00	280,473.96
	reconciled balance 3/31/18			280,473.96



4558 Osage Beach Pkwy, Suite 100
Osage Beach, MO 65065
(573) 348-2265

536 00010 01
ACCOUNT:
DOCUMENTS:

PAGE: 1
03/30/2018

00112 2905133 10Z ATM 608.85.1.4

LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT
SEWER BD.-TREATMENT PLANT BD.
1000 CITY PKWY
OSAGE BEACH MO 65065-3058



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BUSINESS MONEY MARKET ACCOUNT

(BUSINESS MONEY MARKET)

LAST STATEMENT 02/28/18 276,835.74
2 CREDITS 3,638.22
DEBITS .00
THIS STATEMENT 03/30/18 280,473.96

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
03/21 3,467.00

DESCRIPTION OTHER CREDITS DATE AMOUNT
INTEREST 03/30 171.22

AVERAGE LEDGER BALANCE: 277,991.40 INTEREST EARNED: 171.22
AVERAGE AVAILABLE BALANCE: 277,760.27 DAYS IN PERIOD: 30
INTEREST PAID THIS PERIOD: 171.22 ANNUAL PERCENTAGE YIELD EARNED: .75%
INTEREST PAID 2018: 512.05

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION



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WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

REPORT OF OPERATIONS

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

Month of March 2018

Submitted by Alliance Water Resources, Inc. for the

April 2018

Joint Sewer Board Meeting

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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	2.7	2.7	N/A	0		0.08	< 5.0	< 1.0
Peak Day	3.3	3.1	7.9	0		0.14	< 5.0	< 1.0
Percent Removal	98.8	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	N/A		2.7	10	4.0
Weekly Average	45	45		N/A				
Daily Max						11.5	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.240 MGD or 41% 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 74942 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 495,000 gallons with a level of 5.5 feet in Tank 1 and 5.5 feet in Tank 2.

WASTEHAULERS

The plant received 6 loads of septage during the month totaling 15,000 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)
- We installed the UV banks back into the UV channels on the 15th of March and had to change out one wiper cylinder and five bulbs which we had in inventory and ran a process control E.coli on the 26th of March with a result of < 20/100ml colony count.

SAFETY

- We conducted our monthly routine Safety Meeting on Back/Lifting Safety on the 13th of March.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 4th of April.
- We received the lab results for our first quarter 503 sludge testing on the 16th of March and everything looked good.
- MDNR was here on the 7th of March and set up a sampler on the Effluent and was back the next day to pick it up. They said it was just was a routine compliance check which is now being done about every three years.

MISCELLANEOUS AND RECOMMENDATIONS

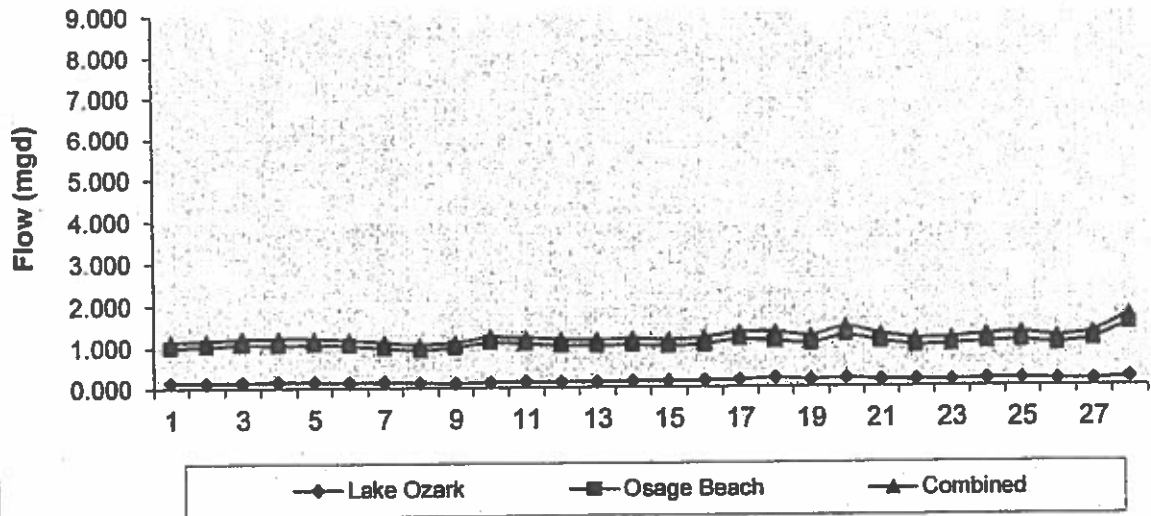
- We would like to Thank the City of Osage Beach for sending their jetter & crew to assist us in getting the scum trough drain on Clarifier #3 opened and would also like to Thank the City of Lake Ozark for the many times they have sent their service truck w/boom & crew out to assist in removing & setting the RAS pumps in and out of the RAS basement. Many Thanks!

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF March **2018**

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-Mar	0	0.144	0.991	1.135	12.7	87.3						
2-Mar	0	0.129	1.021	1.150	11.2	88.8	148	185	210	130	168	226
3-Mar	0	0.136	1.063	1.199	11.3	88.7						
4-Mar	0	0.158	1.049	1.207	13.1	86.9						
5-Mar	0.4	0.148	1.062	1.210	12.2	87.8						
6-Mar	0	0.135	1.032	1.167	11.6	88.4						
7-Mar	0	0.139	0.968	1.107	12.6	87.4						
8-Mar	0	0.130	0.914	1.044	12.5	87.5						
9-Mar	0	0.114	0.982	1.096	10.4	89.6	195	245	228	146	158	216
10-Mar	0	0.133	1.105	1.238	10.7	89.3						
11-Mar	0.2	0.148	1.073	1.221	12.1	87.9						
12-Mar	0	0.132	1.021	1.153	11.4	88.6						
13-Mar	0	0.133	1.013	1.146	11.6	88.4						
14-Mar	0	0.145	1.038	1.183	12.3	87.7						
15-Mar	0.0	0.145	0.996	1.141	12.7	87.3						
16-Mar	0	0.162	1.037	1.199	13.5	86.5	238	200	243	158	124	244
17-Mar	0.3	0.176	1.163	1.339	13.1	86.9						
18-Mar	0	0.219	1.113	1.332	16.4	83.6						
19-Mar	0.25	0.181	1.044	1.225	14.8	85.2						
20-Mar	0.6	0.209	1.265	1.474	14.2	85.8						
21-Mar	0	0.172	1.100	1.272	13.5	86.5						
22-Mar	0	0.173	0.988	1.161	14.9	85.1						
23-Mar	0	0.159	1.018	1.177	13.5	86.5	200	195	295	160	138	444
24-Mar	0	0.182	1.075	1.257	14.5	85.5						
25-Mar	0	0.190	1.109	1.299	14.6	85.4						
26-Mar	0.25	0.165	1.026	1.191	13.9	86.1						
27-Mar	0.4	0.153	1.133	1.286	11.9	88.1						
28-Mar	0.6	0.225	1.504	1.729	13.0	87.0						
29-Mar	0	0.195	1.193	1.388	14.0	86.0						
30-Mar	0.2	0.193	1.126	1.319	14.6	85.4	180	190	193	146	142	216
31-Mar	0	0.187	1.202	1.389	13.5	86.5						
SUM	3.2	5.010	33.424	38.434								
AVG		0.162	1.078	1.240	13	87	192	203	234	148	146	269
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

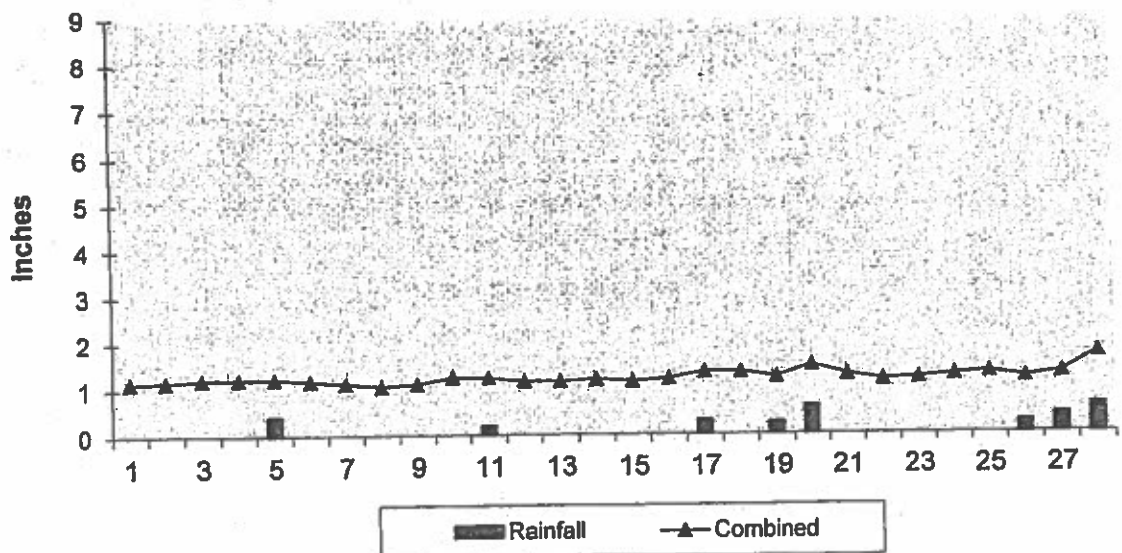
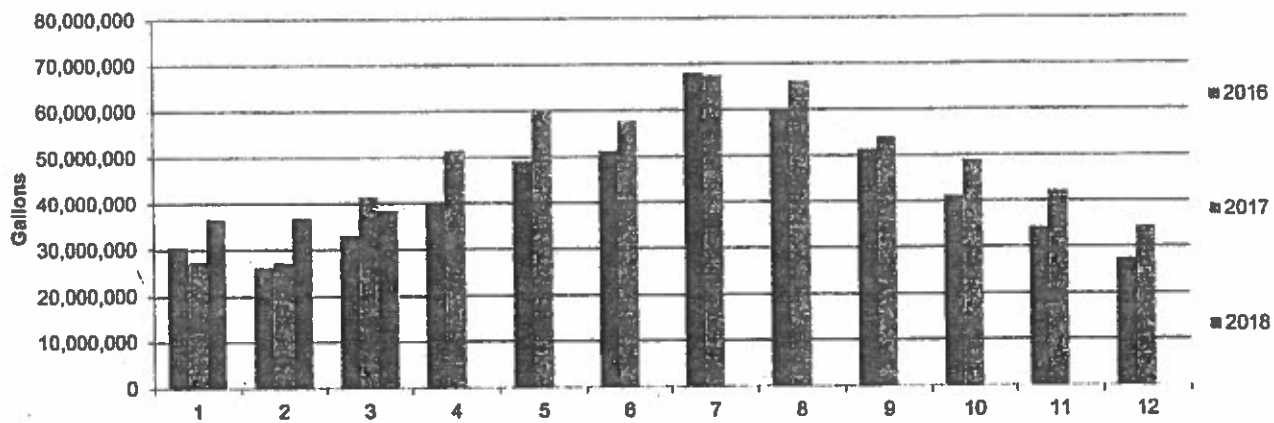


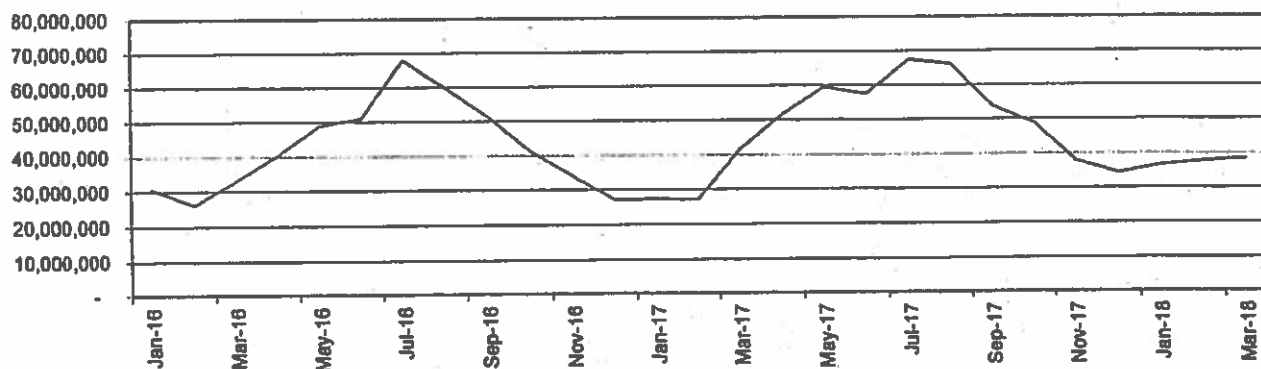
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2016</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April	5.3	35,053,000	87%	5,231,000	13%	40,284,000	100%
May	7.0	42,126,000	86%	6,704,000	14%	48,830,000	100%
June	1.2	44,599,000	87%	6,545,000	13%	51,144,000	100%
July	8.7	59,190,000	87%	8,793,000	13%	67,983,000	100%
August	7.7	51,798,000	86%	8,171,000	14%	59,969,000	100%
September	6.0	44,634,000	87%	6,655,000	13%	51,289,000	100%
October	0.5	36,156,000	88%	5,029,000	12%	41,185,000	100%
November	1.2	29,750,000	87%	4,357,000	13%	34,107,000	100%
December	0.8	23,139,000	86%	3,914,000	14%	27,053,000	100%
	45.4	467,718,000	87%	71,221,000	13%	538,939,000	100%
<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							
May							
June							
July							
August							
September							
October							
November							
December							
	11.4	97,460,000	87%	14,216,000	13%	111,676,000	100%

Monthly Influent Flow
Figure 3A

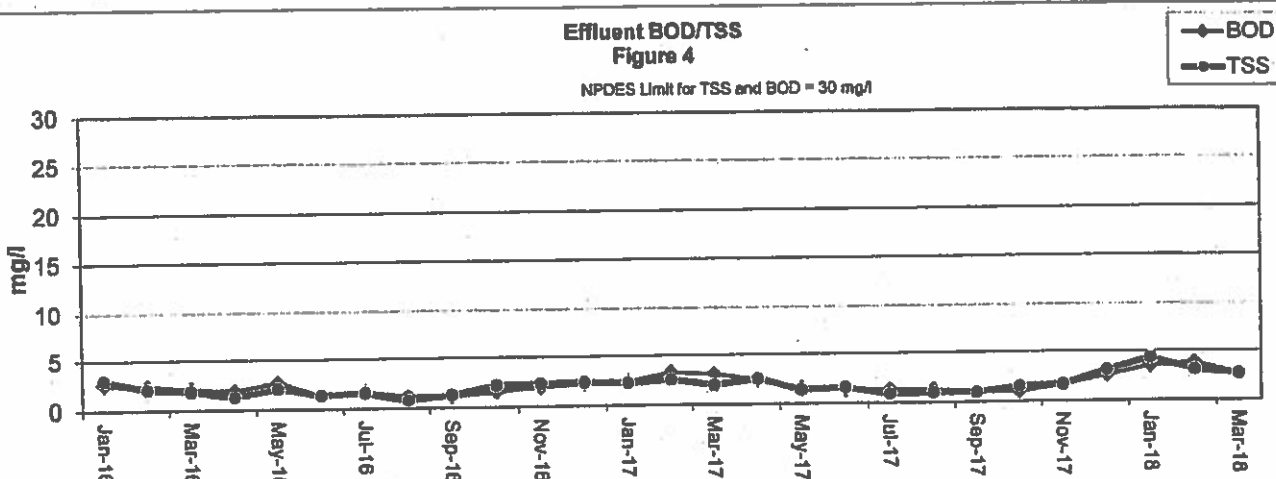


Monthly Influent Flow
Figure 3B



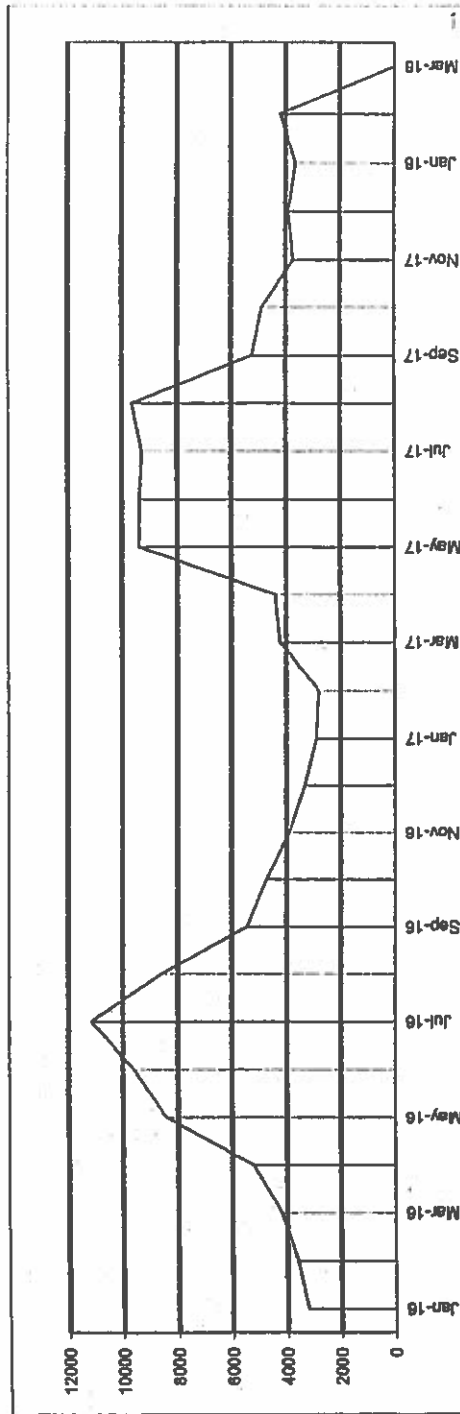
Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

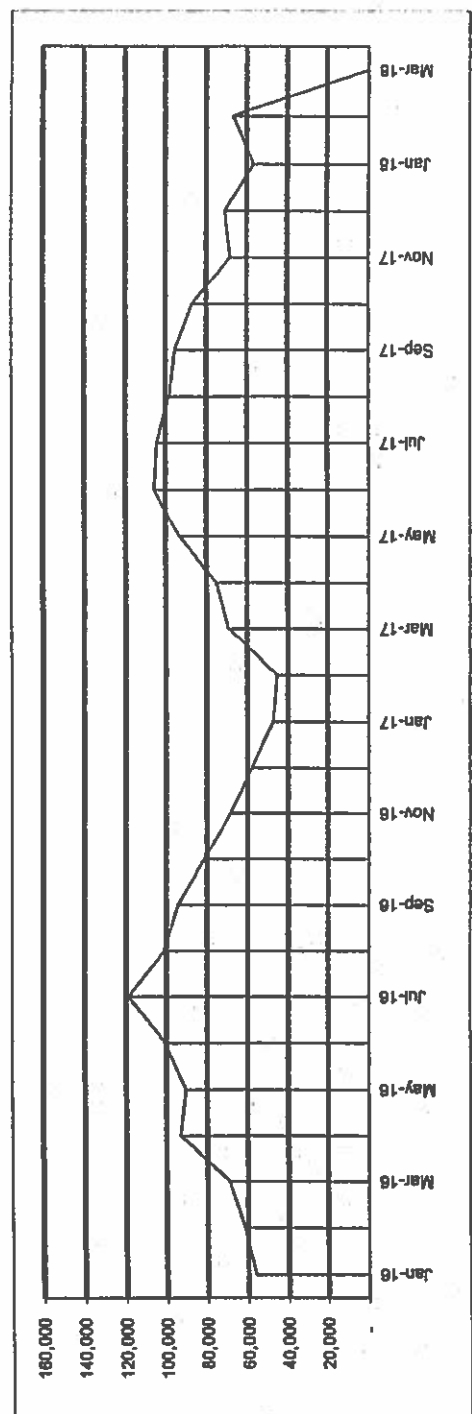


Date	Loads	Hauled Sludge			Annual Cumulative # Dry	Basin Decolize			Blanket Decolize			MLSS Inventory			Blanket and MLSS Inventory			Total Dry		
		Gallons	# Dry	% Solids		Tank #1	Tank #2	AB #1	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	# Dry	% Solids	Sludge Inventory
Jan-16	0	-	0	3.0%	-	5.0	5.0	0.0	450,000	148,367	0.5	0.5	3,760	3,610	3,617,762	111,184	0.00369	257,551	22	55,000
Feb-16	0	-	0	3.9%	-	6.0	3.5	0.0	427,500	139,049	1.0	1.0	3,210	3,730	3,835,824	105,211	0.00347	244,260	6	15,000
Mar-16	0	-	0	3.9%	-	6.0	5.5	0.0	617,500	188,322	2.0	2.0	4,670	4,320	3,714,478	139,249	0.00445	307,871	44	110,000
Apr-16	66	318,200	103,652	3.9%	103,652	5.5	5.0	0.0	472,500	163,914	2.5	2.5	5,540	3,180	3,732,238	132,600	0.00426	288,515	8	15,000
May-16	77	284,900	91,185	3.6%	194,837	5.5	3.0	0.0	362,500	122,423	1.0	5.0	3,770	3,670	3,750,000	116,343	0.00372	238,766	40	100,000
Jun-16	99	396,300	111,708	3.7%	306,543	6.0	4.0	0.0	270,000	82,339	1.5	1.0	2,570	3,840	3,709,547	99,155	0.00321	181,484	30	75,000
Jul-16	28	103,600	29,408	3.4%	335,951	6.0	0.0	0.0	362,500	106,577	1.0	1.0	1,740	2,630	3,678,952	87,041	0.00219	176,818	48	111,000
Aug-16	0	-	0	3.4%	335,951	5.0	3.5	0.0	427,500	121,222	1.0	1.0	2,860	2,220	3,678,952	76,240	0.00255	199,482	43	95,000
Sep-16	0	-	0	3.4%	335,951	6.0	5.0	0.0	450,000	127,002	1.0	1.0	2,800	3,690	3,678,952	81,822	0.00267	236,045	35	75,500
Oct-16	0	-	0	3.4%	335,951	6.5	5.5	0.0	540,000	163,122	1.0	1.0	1,740	3,770	1,882,904	59,202	0.00377	234,497	11	20,000
Nov-16	52	192,400	62,457	3.9%	398,408	6.5	5.5	0.0	540,000	176,285	1.0	0.0	-	4,700	1,881,190	72,955	0.0047	256,348	28	54,500
Dec-16	36	133,200	45,237	4.1%	443,645	7.5	4.5	0.0	540,000	183,393	1.0	0.0	-	5,060	1,881,190	78,853	0.00508	255,986	15	37,500
Jan-17	47	173,000	58,748	3.9%	567,748	8.0	6.0	0.0	540,000	177,132	1.5	0.0	-	4,090	1,813,499	65,271	0.00409	258,981	5	12,500
Feb-17	68	251,800	88,848	4.1%	656,596	5.5	7.0	0.0	562,500	193,720	3.0	0.0	-	5,400	1,896,714	85,420	0.00519	265,019	41	102,500
Mar-17	33	122,100	34,808	3.4%	778,205	7.5	6.5	0.0	630,000	179,599	8.0	10.0	-	4,830	2,184,858	94,367	0.00463	224,939	8	20,000
Apr-17	59	218,300	61,894	3.4%	840,199	6.5	4.5	0.0	485,000	140,673	1.0	1.5	3,420	2,480	3,696,119	90,198	0.00295	246,428	45	116,000
May-17	51	188,700	59,595	3.6%	929,795	7.0	4.0	0.0	485,000	150,228	1.0	1.5	4,630	3,000	3,762,833	118,153	0.00377	194,810	33	82,500
Jun-17	75	277,500	85,774	3.7%	1,007,369	2.5	3.0	0.0	247,500	76,457	3.0	2.5	4,670	3,850	3,657,238	126,896	0.00416	258,428	43	107,500
Jul-17	20	74,000	21,631	3.5%	1,029,000	4.5	5.5	0.0	450,000	131,540	1.0	1.0	2,910	2,740	3,670,071	86,488	0.00283	196,173	41	103,500
Aug-17	39	144,300	37,030	3.1%	1,066,030	6.0	4.5	0.0	427,500	109,704	0.5	1.0	3,690	3,300	3,670,071	109,884	0.00359	234,862	48	122,000
Sep-17	16	59,200	17,311	3.7%	1,083,341	8.0	3.5	0.0	405,000	126,168	0.5	1.0	4,520	3,780	3,670,071	127,025	0.00415	253,182	10	23,500
Oct-17	20	74,000	23,051	3.7%	1,106,392	4.5	3.5	0.0	380,000	103,583	1.0	1.0	2,860	4,060	3,696,119	106,250	0.00348	209,832	7	17,500
Nov-17	20	74,000	21,292	3.4%	1,127,684	6.0	3.0	0.0	405,000	114,842	1.0	1.5	2,890	4,120	3,687,833	119,950	0.00339	234,792	7	17,500
Dec-17	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	4,880	3,920	3,750,000	137,810	0.00442	255,990	5	12,500
Jan-18	0	-	0	3.4%	-	7.5	6.0	0.0	682,500	190,503	2.0	4.0	5,580	5,760	3,636,478	172,408	0.00568	312,769	18	40,000
Feb-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	-	-	-	-	-	-	6	15,000

Electric Cost



Kilowatts Used



Electric Cost Kilowatts Used

Jan-16	3223	56,290
Feb-16	3613	61,740
Mar-16	4195	69,020
Apr-16	5235	93,310
May-16	8446	90,640
Jun-16	9618	100,670
Jul-16	11166	119,020
Aug-16	8627	101,260
Sep-16	5460	94,280
Oct-16	4737	81,500
Nov-16	3903	68,360
Dec-16	3324	57,810
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	85,470
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	0	0



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

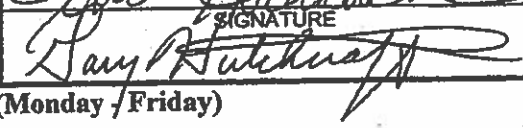
NAME OF FACILITY						LOCATION ADDRESS & CITY						COUNTY/REGION		
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road						Miller/SWRO		
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Mar-18		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	7.5			11.4	1.406	7.8			0.07	7.1		11.8		
2	7.5	210	226	11.0	1.373	7.8	2.4	2.2		8.1		10.9	98.9	99.0
3	7.5			10.5	1.437	7.8				7.4		10.1		
4	7.4			11.8	1.502	7.7				6.6		10.6		
5	7.4			12.5	1.475	7.7				6.4		11.7		
6	7.4			11.7	1.425	7.8				7.4		11.2		
7	7.5			11.0	1.399	7.8				7.4		9.9		
8	7.5			10.3	1.319	7.8			0.08	7.9		9.3		
9	7.4	228	216	11.7	1.392	7.8	2.7	2.6		8.3		9.8	98.8	98.8
10	7.4			11.9	1.466	7.8				7.0		9.8		
11	7.5			11.3	1.541	7.9				7.2		10.2		
12	7.5			11.1	1.497	7.8				7.0		9.7		
13	7.5			11.1	1.499	7.7				6.4		9.5		
14	7.5			10.2	1.473	7.8				7.7		8.8		
15	7.5			11.1	1.411	7.8			0.14	7.2		9.7		
16	7.5	243	244	11.8	1.413	7.8	3.3	2.9		7.2		11.0	98.6	98.8
17	7.5			11.5	1.645	7.8				6.7		10.6		
18	7.5			11.9	1.665	7.9				7.4		11.0		
19	7.4			12.3	1.524	7.8				5.9		11.0		
20	7.4			11.7	1.895	7.7				5.6		11.4		
21	7.4			12.1	1.546	7.8				6.2		11.3		
22	7.5			11.1	1.486	7.8			0.06	6.8		10.6		
23	7.5	295	444	12.2	1.447	7.8	2.7	3.1		6.5		11.6	99.1	99.3
24	7.3			12.5	1.457	7.8				6.7		12.3		
25	7.4			11.6	1.564	7.8				6.5		11.2		
26	7.5			11.8	1.491	7.8				6.6		11.6		
27	7.3			13.0	1.584	7.7				5.5		12.5		
28	7.3			12.5	2.151	7.7				5.8		12.3		
29	7.3			13.0	1.704	7.7			0.06	6.5		12.5		
30	7.3	193	216	12.0	1.662	7.6	2.5	2.7		6.4		12.1	98.7	98.8
31	7.4			12.6	1.641	7.8				6.8		12.5		
Total					47.490									
Avg		234	269	12	1.532		2.7	2.7	0.08	6.8	0.0	10.9	98.8	98.9
Min	7.3	193	216	10	1.319	7.6	2.4	2.2	0.06	5.5	0.0	8.8	98.6	98.8
Max	7.5	295	444	13	2.151	7.9	3.3	3.1	0.14	8.3	0.0	12.5	99.1	99.3

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	< 5.0	< 1.0	239	285	1.9	< 0.10	24.9	0.59	< 5.0	< 10.0
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 5.0	< 1.0	239	285	1.9	< 0.10	24.9	0.59	< 5.0	< 10.0
Avg	< 5.0	< 1.0	239	285	1.9	< 0.10	24.9	0.59	< 5.0	< 10.0
Min	< 5.0	< 1.0	239	285	1.9	< 0.10	24.9	0.59	< 5.0	< 10.0
Max	< 5.0	< 1.0	239	285	1.9	< 0.10	24.9	0.59	< 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		3.1	5,180	700	11.7	4.0	4,230	450	11.7	46	0	7:30
2		5.4	4,950	680	11.1	5.4	4,700	600	10.8	30	0	7:30
3		5.0	5,060	650	10.0	4.7	4,780	610	10.1	38	0	7:30
4		4.6	5,100	730	10.6	5.0	4,160	430	10.6	38	0	7:30
5		1.6	6,730	860	11.7	4.2	3,900	360	11.7	50	0.4	7:30
6		3.6	5,430	740	11.3	5.0	5,240	700	11.2	42	0	7:30
7		3.8	5,980	810	10.0	5.4	4,670	600	9.9	34	0	7:30
8		4.9	5,630	800	8.8	5.0	5,260	750	9.0	31	0	7:30
9		4.6	5,470	780	9.8	4.0	5,290	720	9.6	33	0	7:30
10		5.4	5,370	770	10.0	4.8	5,030	700	10.0	35	0	7:30
11		3.7	5,470	760	10.6	4.2	5,370	740	10.6	44	0.2	7:30
12		3.9	5,410	730	9.5	3.4	5,380	730	9.7	35	0	7:30
13		4.1	5,170	760	8.8	3.1	5,680	780	9.2	28	0	7:30
14		4.8	4,850	760	8.7	4.8	5,760	770	8.8	25	0	7:30
15		3.6	5,820	800	9.5	4.4	5,290	670	9.7	34	0	7:30
16		3.0	5,620	730	11.1	3.5	5,690	740	11.3	52	0	7:30
17		2.1	5,520	720	11.3	2.2	5,610	750	11.6	46	0.3	7:30
18		1.8	6,120	800	11.3	3.8	5,280	670	11.4	44	0	7:30
19		2.7	5,240	660	11.5	2.1	5,730	760	11.7	44	0.25	7:30
20		1.8	6,690	840	11.2	2.7	4,760	550	11.1	42	0.6	7:30
21		1.7	6,410	800	11.2	3.4	4,750	600	11.1	40	0	7:30
22		2.3	5,780	700	10.2	3.2	5,670	710	10.3	34	0	7:30
23		1.9	5,990	740	11.8	1.6	5,430	700	11.7	46	0	7:30
24		2.2	5,800	750	12.4	2.8	5,220	590	12.3	55	0	7:30
25		2.2	5,790	760	11.5	2.5	5,310	650	11.5	38	0	7:30
26		2.2	6,010	760	11.3	3.0	5,360	650	11.4	45	0.25	7:30
27		1.4	5,570	730	12.7	1.4	5,420	630	12.6	57	0.4	7:30
28		1.3	6,000	770	12.5	1.8	4,490	420	12.3	46	0.6	7:30
29		3.0	6,680	800	12.4	4.8	4,900	440	12.4	49	0	7:30
30		3.6	5,680	710	12.3	2.5	5,620	710	12.0	38	0.2	7:30
31		2.6	5,580	700	12.3	2.5	5,780	710	12.4	45	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	4/4/2018
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	4/4/2018

*Required Daily (Monday / Friday)

**Required 1/week

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional W/WTP I
ADDRESS: 43 Anderson Road
LAKE OZARK, MO 65049

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)

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2018	03	01	2018 03 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	*****	*****	*****	3.3	2.7	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (01010)	REPORTD	*****	*****	*****	*****	98.6	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Flow, in conduit or thru treatment plant (30050)	REPORTD	2.151	1.532	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMNT	Daily Maximum: Monitoring Required	Monthly Average: Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	*****	0.14	0.08	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Daily Maximum: 11.5	Monthly Average: 2.2	Weekly	Grab
Oil and grease (excluding emulsified) (00550)	REPORTD	*****	*****	*****	<5.0	<5.0	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Daily Maximum: 15	Monthly Average: 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	*****	7.6	7.9	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Minimum: 6.5	Maximum: 9.0	Weekly	Grab
Selenium (Se), total recoverable (00921)	REPORTD	*****	*****	*****	<1.8	<1.8	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Daily Maximum: 9.1	Monthly Average: 3.6	Monthly	Grab

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

I certify under penalty of law that this document and all statements were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons 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		7305
Gary Hutchcraft		CERTIFICATE NUMBER
TYPED OR PRINTED NAME		573-365-0455
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE
Gary F Hutchcraft		2018-04-04 15:20:58
TYPED OR PRINTED NAME		DATE

Page 1

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional W/WTP I
ADDRESS: 43 Anderson Road
LAKE OZARK, MO 65049

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)

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2018	03	01	2018 03 31

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

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Suspended Solids, percent removal (01011)	REPORTD	*****	*****	*****	98.8	*****	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Monthly Average Minimum: 85	*****	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	3.1	2.7	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite

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

I certify under penalty of law that this document and all statements were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons 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		7305
Gary Hutchcraft		CERTIFICATE NUMBER
TYPED OR PRINTED NAME		573-365-0455
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE
Gary F Hutchcraft		2018-04-04 15:20:58
TYPED OR PRINTED NAME		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 WWT #1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049MO0103241 SM2 A
PERMIT NUMBER DIRECTOR'S NUMBER

MONITORING PERIOD

YEAR MONTH DAY YEAR MONTH DAY
2018 03 01 2018 03 31NOTE: 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) (50900)	REPORTD	*****		285	*****	Monthly	Grab	
Stage Type: Instream Monitoring	REQRMNT	*****		Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	Monthly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:

(OPTIONAL) SPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

I certify under penalty of law that this document and all attachments were prepared solely by myself or supervised in accordance with a system designed to ensure that qualified personnel properly gather and analyze the information submitted by, 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
Gary F Hutchcraft	2018-04-04 15:20:58
TYPED OR PRINTED NAME	SIGNATURE
	Date

Page 3

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 65807-5V12
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

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

MO0103241		D01 B	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO YEAR MO DAY
2018	01	01	2018 03 31

NOTE: READ PERMIT AND GENERAL DISCHARGE LIMITS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Cadmium, total recoverable (01113)	REPORTD REQRMNT	***** *****		<5.0 Daily Maximum : Monitoring Required	***** *****	<5.0 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: End of Pipe								
Copper, total recoverable (01119)	REPORTD REQRMNT	***** *****		<10.0 Daily Maximum : Monitoring Required	***** *****	<10.0 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: End of Pipe								
Nitrogen, total (as N) (00600)	REPORTD REQRMNT	***** *****		24.9 Daily Maximum : Monitoring Required	***** *****	24.9 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: End of Pipe								
Phosphorus, total (as P) (00665)	REPORTD REQRMNT	***** *****		1.9 Daily Maximum : Monitoring Required	***** *****	1.9 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: End of Pipe								

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OR TYPICAL 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 ensure that qualified personnel properly gather and analyze 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		7305
Gary Hutchcraft		CERTIFICATE NUMBER
TYPED OR PRINTED NAME		573-365-0455
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE
Gary F Hutchcraft		2018-04-04 15:27:15
TYPED OR PRINTED NAME		DATE

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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 65807-5V12
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

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

MO0103241		SM1 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO YEAR MO DAY
2018	01	01	2018 03 31

NOTE: READ PERMIT AND GENERAL DISCHARGE LIMITS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Nitrogen, total (as N) (00600)	REPORTD REQRMNT	***** *****		0.59 Daily Maximum : Monitoring Required	***** *****	0.59 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: Instream Monitoring								
Phosphorus, total (as P) (00665)	REPORTD REQRMNT	***** *****		<0.10 Daily Maximum : Monitoring Required	***** *****	<0.10 Monthly Average : Monitoring Required	Quarterly Grab	
Stage Type: Instream Monitoring								

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OR TYPICAL 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 ensure that qualified personnel properly gather and analyze 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.

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FOR MARCH 2018

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HD **High priority**

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4/10/2013

**Semi - Annual I & I Flow Report
Wastewater Treatment Summary for the City of Lake Ozark
(Million Gallons)**

2017 - 2018

	October	November	December	January	February	March
L.O. Total MG	6.332	4.244	3.808	4.345	4.861	5.010
L.O. Peak MG	0.327	0.190	0.167	0.258	0.468	0.225
Avg. Daily MG	0.204	0.141	0.123	0.140	0.174	0.162
% Diff.	60%	35%	36%	84%	169%	39%
Rainfall Inches	6.4	0.5	0.9	2.8	5.4	3.2