OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING AGENDA
October 16, 2018 @ 4:00 p.m.
LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Johnnie Franzeskos
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; August 21, 2018	3-4

PUBLIC COMMENT

This time is set aside on the Agenda for citizens and visitors to address the Joint Sewer Commission on any topic that is not a Public Hearing. The Joint Sewer Commission welcomes input and feedback from the public. Speakers will be restricted to three minutes for non-agenda items; five minutes for agenda items unless otherwise permitted. Minutes may not be donated or transferred from one speaker to another.

4. REPORTS

Bill List (August & September)	**5-24**
Revenue Budget Analysis	**25**
Expenditure Budget Analysis	**26**
Income & Expense Summary	**27**
Check Registers & Bank Statements	**28-31**
Alliance Report of Operations	**32-49**
Approval of Flow Charts	
August , 2017	
September, 2017	49

5. OLD BUSINESS:

A. Report of Contract Review Sub Committee

B. Discussion and possible action regarding the Generator Project

C. Discussion and possible action on snow plow insurance.

6. NEW BUSINESS:

A. Discussion and possible action regarding the 2019 Budget & Capital Improvement Plan. 50-53

B. Discussion and possible action regarding clairifier and sandblasting bids.

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – August 21, 2018

CALL TO ORDER:
Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, August 21, 2018 at Lake Ozark 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, Greg Massey - Absent
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:
City Administrator Woods motioned to approve the meeting minutes of July 17, 2018. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

Mayor Olivarri motioned to approve the special meeting minutes of July 26, 2018. The motion was seconded by Public Works Director Edelman.

REPORTS:
City Administrator Woods motion to approve the July Bills List. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

The July Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. Motion was made by Alderman Murawski to acknowledge the review of the documents. Seconded by Mayor Olivarri. The Motion passed unanimously.

Alliance Report of Operations: The average daily incoming flow for July was 2.227 mgd. We had 2.7 inches of precipitation measured at the WWTP in July.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.8 mg/l and TSS of 1.7 mg/l respectively for July, which represents a 99.1% or better removal.

The MLSS average for both aeration basins was 5,111 mg/l in July. The total dry weight sludge inventory for July totaled 242,026 pounds. There were 126 tanker loads of biosolids or 466,200 gallons land applied in July. We also received 42 tanker loads or 107,000 gallons of septage for the month of July.

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. Report of Contract renewal committee to consider the Alliance Contract. Public Works Director Edelman advised they have chosen Alliance and will work in negotiating a contract for the future

B. Report of action regarding the generator project. Public Works Director Michalik stated Nick, Gary and himself have narrowed it to 2 firms Martin and Empire. Their recommendation is to proceed with Martin Energy. They will negotiate a contract and will bring to the board to proceed.

NEW BUSINESS:

A. Report of action regarding the surplus sale of the Coleman Pressure washer, John Deere Riding Mower, and 2001 Dodge Dakota Pickup. A motion to approve the auction of these items was made by City Administrator Van Dee, seconded by Alderman Murawski, motion passed unanimously.

B. Report on the possible action on replacement Doors. Alliance received several bids to replace the doors. A motion to go with Jeffries Construction was made by Mayor Olivarri, seconded by City Administrator Woods, motion passed unanimously.

C. Report on the possible action for insurance for the snow plow. It was determined the plow is covered while on the truck but not when off. Kerri Bell stated she will look further into this and see if it's covered under the property insurance when not on the truck. She will bring it back to the board in September.

ADJOURNMENT:

With no further business to discuss, a motion to adjourn was made by Alderman Murawski. His motion was seconded by City Administrator Van Dee and was passed unanimously. The meeting adjourned at 4:16 pm.

Approved On: September 18, 2018

Mayor, Johnnie Franzeskos

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
OCTOBER 16, 2018

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	$	31.50
OPERATING FUND BILLS TO BE PAID:	$	37,727.20
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	$	1,178.09
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	$	-
TOTAL	$	38,936.79

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:		Amount:
4020	3688	Lake Sun Leader	Advertise Surplus Property	$	31.50
				$	-
				$	-
				$	-
				$	-
				$	-
			TOTAL	$	31.50

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:		Amount:
4185	3689	Ameren MO	September Service	$	5,684.73
4000	3690	Equipment Replacement Fund	Payment into ER Fund	$	3,467.00
4170	3691	Alliance Water Resources, Inc.	Management Fee	$	26,584.22
4160	3692	Alliance Water Resources, Inc.	Hauled Waste	$	220.00
4020	3693	Alliance Water Resources, Inc.	maintenance and repair misc.	$	1,532.75
4020	3694	Lake Sun Leader	Bid Clarifier Paint Project	$	238.50
				$	-
				$	-
			TOTAL	$	37,727.20

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:		Amount:
	1025	John Henry Foster	Compressor replace part	$	1,178.09
				$	-
			TOTAL	$	1,178.09

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

Lake Sun GateHouse Media

LAKE SUN LEADER
GATEHOUSE MEDIA MO HOLDINGS, INC.
Legal Advertising Invoice

918 N. Business Route 5
Camdenton, MO 65020-0980
573-317-8151 FAX 573-346-4508

CITY OF OSAGE BEACH
ATTN: ACCTS PAYABLE
1000 CITY PARKWAY
OSAGE BEACH, MO 65065

RECEIVED
SEP 17 2018
By

RE: JOINT SEWER BOARD SUPLUS
PN: 21066
ACCT# 81525

AFFIDAVIT OF PUBLICATION
(State of Missouri)
) SS
(County of Camden)

I, JOYCE MILLER, BEING DULY SWORN ACCORDING TO LAW, STATE THAT I AM (REGIONAL EDITOR) OF THE LAKE SUN LEADER, A DAILY NEWSPAPER OF GENERAL CIRCULATION IN THE COUNTY OF CAMDEN, MISSOURI, WHERE LOCATED; WHICH HAS BEEN ADMITTED TO THE POST OFFICE AS PERIODICAL MATTER IN THE CITY OF CAMDENTON, THE CITY OF PUBLICATION: WHICH NEWSPAPER HAS BEEN PUBLISHED REGULARLY AND CONSECUTIVELY FOR A PERIOD OF THREE YEARS AND HAS A LIST OF BONAFIDE SUBSCRIBERS VOLUNTARILY ENGAGED AS SUCH WHO HAVE PAID OR AGREED TO PAY A STATED PRICE FOR A SUBSCRIPTION FOR A DEFINITE PERIOD OF TIME, AND THAT SUCH NEWSPAPER HAS COMPLIED WITH THE PROVISIONS OF COMMITTEE SUBSTITUTE FOR SENATE BILL 39 ENACTED BY THE FIFTY-NINTH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE AFFIXED NOTICE APPEARED IN SAID NEWSPAPER ON THE FOLLOWING CONSECUTIVE WEEKS (ISSUES).

FROM: 09/14/2018 VOL 139 NO 180
TO: 09/14/2018 DAY OF SEPTEMBER 14, 2018

SIGNED: ____________________
JOYCE MILLER (REGIONAL EDITOR)

PUBLICATION FEE DUE: $ 31.50
SUBSCRIBED AND SWORN TO BEFORE ME THIS
14 DAY OF SEPTEMBER, 2018.

SIGNED: ____________________ (NOTARY PUBLIC)
KATHLEEN L. MOORE
NOTARY PUBLIC STATE OF MISSOURI, CAMDEN COUNTY

MY COMMISSION EXPIRES MARCH 5, 2022

Payment is due upon receipt of this invoice.
Proof of Publication is available on or after the last day of publication.
After payment is received, signed & notarized affidavit will be issued.

Ameren MISSOURI

- AmerenMissouri.com
- 1.877.426.3736
- PO Box 88068 Chicago, IL 60680-1068
  Ameren payment processing center

FOCUSED ENERGY. For life.

Account Number 4680005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD, -
LAKE OZARK, MO 65048

Current Detail for Statement 10/08/2018	
Total Electric Charges	$5,476.64
Total Amount Due	**$5,476.64**

Stay informed about your energy usage anytime. Go to **AmerenMissouri.com** and create an account. It's simple and free!

AMOUNT DUE	**$5,476.64**
Due Date	**10/29/2018**
Amount After Due Date	$5,558.78
Previous Statement	$10,214.13
Total Payments	$10,214.13

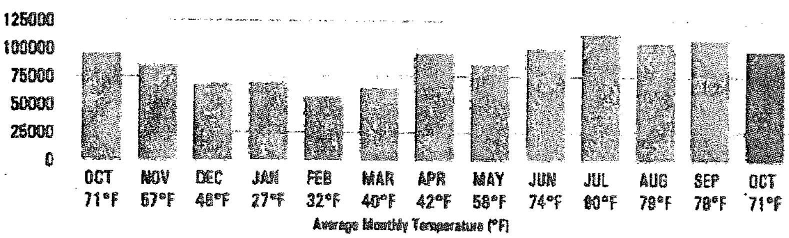
Payment Received. Thank You.

RECEIVED
OCT 08 2018

Your electric rate decreased by approximately 6%. Your savings are noted as the Federal Tax Rate Reduction.

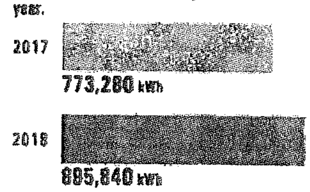
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **15.8% more** than last year.



Usage from Jan-Oct for 2017 & 2018

13073 000984 6017922 000176 000349 0001/0002

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**.

» See next page for service details.

Keep this portion for your records.

Ameren MISSOURI

Please return this portion with your payment.

☐ Check if you have address changes on back.

Amount Due	Due Date
$5,476.64	October 29, 2018
Delinquent Amount After Due Date	**Account Number**
$5,558.78	4680005832

Amount Enclosed $ ______________

>000094 6017922 0002 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

20600000 0045800058302 000005476640 000005476640

Ameren MISSOURI

AmerenMissouri.com
1.877.426.3736
PO Box 88068 Chicago, IL 60680-1068
Ameren payment processing center

FOCUSED ENERGY. For life.

Electric Service Details

Service from 09/05/2018 - 10/04/2018 (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	09/05 - 10/04	29	Total kWh	Actual	49700.0000	49087.0000	613.0000	160.0000	98080.0000
11673321	09/05 - 10/04	29	Peak kW	Actual	1.2880	0.0000	1.2880	160.0000	206.0800

Usage Summary

Total kWh	98080.0000	Peak kW	206.1000
Total Billing Demand	206.1000	Current Base Demand	153.1000
Base kWh Ratio	0.7428	Base kWh (HUD)	72854.0000
Seasonal kWh (HUD)	25226.0000	October Base Demand	153.1000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	25,226.00	kWh	@	$ 0.03880000	$981.29
Demand Charge	206.10	kW	@	$ 2.00000000	$412.20
Base Energy Charge / Hours Used	22,965.00	kWh	@	$ 0.06650000	$1,527.17
Base Energy Charge / Hours Used	30,620.00	kWh	@	$ 0.04940000	$1,512.63
Base Energy Charge / Hours Used	19,269.00	kWh	@	$ 0.03890000	$749.56
Customer Charge					$95.07
Fuel Adjustment Charge	98,080.00	kWh	@	$ 0.00196000	$192.24
Energy Efficiency Program Charge	98,080.00	kWh	@	$ 0.00020000	$19.62
Energy Efficiency Investment Charge	98,080.00	kWh	@	$ 0.00448600	$439.99
Federal Tax Rate Reduction	98,080.00	kWh	@	$-0.00462000	$-453.13
				Total Service Amount	$5,476.64
				Total Electric Charges	**$5,476.64**

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

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 PAYSTATION AT AMERENMISSOURI.COM/PAYSTATION

ONLINE CREDIT CARD

MAIL STUB & CHECK

Ameren MISSOURI

- AmerenMissouri.com
- 1.877.426.3736
- PO Box 88068 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 10/08/2018

Total Electric Charges	$208.09
Total Amount Due	**$208.09**

Stay informed about your energy usage anytime. Go to **AmerenMissouri.com** and create an account. It's simple and free!

AMOUNT DUE	**$208.09**
Due Date	**10/29/2018**
Amount After Due Date	$211.21
Previous Statement	$185.43
Total Payments	$185.43

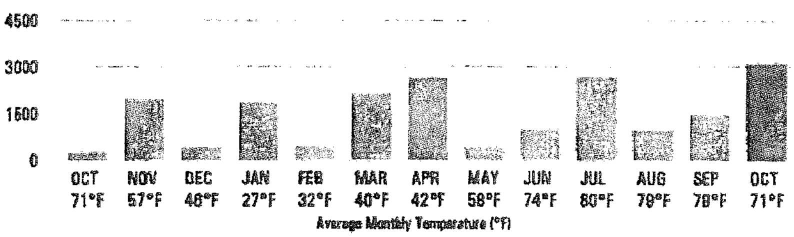
Payment Received. Thank You.

RECEIVED
OCT 08 2018

Your electric rate decreased by approximately 6%. Your savings are noted as the Federal Tax Rate Reduction.

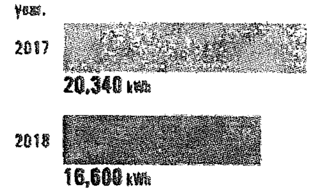
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **18.4% less** than last year.



Usage from Jan-Oct for 2017 & 2018

13073
00312 6017922 000611 001221 0001/0002

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**.

» See next page for service details.

Keep this portion for your records.

Please return this portion with your payment.

Ameren MISSOURI

☐ Check if you have address changes on back.

Amount Due	Due Date
$208.09	October 29, 2018
Delinquent Amount After Due Date	**Account Number**
$211.21	5580005920

Amount Enclosed $ ____________

>000312 6017922 0002 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

30633000 0055800059200 000000208090 000000208090

Ameren MISSOURI

AmerenMissouri.com
1.877.426.3736
PO Box 88068 Chicago, IL 60680-1068
Ameren payment processing center

FOCUSED ENERGY. For life.

Electric Service Details

Service from 09/05/2018 - 10/04/2018 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
88041275	09/05 - 10/04	29	Total kWh	Actual	17892.0000	17583.0000	309.0000	10.0000	3090.0000
88041275	09/05 - 10/04	29	Peak kW	Actual	5.9780	0.0000	5.9780	10.0000	59.7800

Usage Summary

Total kWh	3090.0000	Base kWh	1000.0000
Winter Base kWh	1000.0000	Current October Base kWh	1000.0000
Seasonal kWh	2090.0000		

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	2,090.00	kWh	@	$ 0.04820000	$100.74
Customer Charge					$21.43
Fuel Adjustment Charge	3,090.00	kWh	@	$ 0.00196000	$6.06
Energy Efficiency Program Charge	3,090.00	kWh	@	$ 0.00010000	$0.31
Energy Efficiency Investment Charge	3,090.00	kWh	@	$ 0.00449900	$13.90
Federal Tax Rate Reduction	3,090.00	kWh	@	$-0.00581000	$-17.95
				Total Service Amount	$208.09
				Total Electric Charges	**$208.09**

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
September 25, 2018	$185.43

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

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

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

INVOICE

Invoice No:	8039
Invoice Date:	1-Oct-18
Customer No:	20220
Terms:	30 days

SOLD TO:

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

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

Alliance Water Resources, Inc.

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

INVOICE

Invoice No: **8041**

Invoice Date: **30-Sep-18**

Customer No: **20220**

Terms: **30 days**

SOLD TO:

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

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Sep-2018	
	2 Hauled Waste Loads @ $50.00 each	$100.00
	2 Hauled Waste Loads @ $60.00 each	$120.00
	TOTAL DUE	$220.00

Alliance Water Resources, Inc.

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

INVOICE

Invoice No: 8040

Invoice Date: 1-Oct-18

Customer No: 20220

Terms: 30 days

SOLD TO:

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

REFERENCE	DESCRIPTION	AMOUNT
	Jani-King - Invoice # CLM10180094 - 50%	$97.50
	Pace Analytical - Invoice # 1860058235 - 100%	$590.00
	Aesthetix Electric - Invoice # 90618668 - 50%	$95.00
	John Henry Foster - Invoice # INV-00240177 - 50%	$223.36
	Sears - Invoice # 4194 - 50%	$57.73
	Walmart - Invoice # 1042000314 - 50%	$52.38
	Mouser Electronics - Invoice # 49446171 - 50%	$201.09
	Lowe's - Invoice # 08815 - 50%	$65.92
	Case - Invoice # 18420E - 50%	$149.77
	TOTAL DUE	$1,532.75

Remit To:
MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
14821 W. 95TH STREET
LENEXA KS 66215
(573) 442-8455

Invoice	
Date	Number
10/01/2018	CLM10180094
Due Date	Cust #
10/31/2018	022031
Invoice Amount	Amount Remitted
$ 195.00	

Sold To:
ALLIANCE WATER
3 ANDERSON RD
LAKE OZARK MO 65049

For:
Same as Sold To

RECEIVED SEP 26 2018

Make All Checks Payable To: MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
RETURN THIS PORTION WITH YOUR PAYMENT

MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
Commercial Cleaning Services
(573) 442-8455

Sold To:
ALLIANCE WATER
3 ANDERSON RD
LAKE OZARK MO 65049

For:
Same as Sold To

Invoice No	Date	Cust No	Slsmn No	PO Number	Franchisee	Due Date
CLM10180094	10/01/2018	022031			RJ ENTERPRISES, LLC	10/31/2018

Quantity	Description	Unit Price	Extended Price
1	MONTHLY CONTRACT BILLING AMOUNT FOR OCTOBER	195.00	195.00

GL Acct#: 6700-20 $97.50 1220-20 $97.50
Signature: [signature]
Date: 9/26/18

Amount of Sale	$ 195.00
Sales Tax	$ 0.00
Total	$ 195.00

Make All Checks Payable To:
MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA

Pace Analytical™

www.pacelabs.com

INVOICE

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: (913)599-5665

Invoice Number: 1860058235
Date: 09/20/2018
Total Amount Due: $590.00

Sold To:
Gary Hutchcraft
Alliance Water Resources
#3 Anderson Road
Lake Ozark, MO 65049
(573)365-0455

RECEIVED
SEP 2 1 2018

Please Remit To:
Pace Analytical Services, LLC
P.O. Box 684056
Chicago, IL 60695-4056

Client Number/Name	Purchase Order No.	Pace Project Mgr	Terms	Page
60-531557 / Alliance Oza		Heather Wilson	Net 30 Days	1

Client Project: EXPANDED EFF TEST #2
Pace Project No: 60279538
Report Sent To: Gary Hutchcraft, Alliance Water Resources
Comments:
Client Name: Alliance Water Resources_Lake Ozark MO
Sample Received: 9/5/2018

ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
1	Ea	200.7 Metals, Total	EPA 200.7	Water	$26.00	$26.00
1	Ea	200.8 ICPMS Metals	EPA 200.8	Water	$112.00	$112.00
1	Ea	245.1 Mercury	EPA 245.1	Water	$20.00	$20.00
1	Ea	4500CNE Cyanide, Total	SM 4500-CN-E	Water	$35.00	$35.00
2	Ea	624 Volatile Organics	EPA 624 Low	Water	$85.00	$170.00
1	Ea	625 Semivolatile Organics	EPA 625	Water	$185.00	$185.00
1	Ea	Chromium, Hexavalent	SM 3500-Cr B	Water	$25.00	$25.00
1	Ea	Sample Disposal	Miscellaneous Charges	Water	$2.00	$2.00
1	Ea	Shipping/Courier Charges	Miscellaneous Charges	Water	$0.00	$0.00
1	Ea	Trivalent Chromium Calculation	Trivalent Chromium Calc	Water	$15.00	$15.00
					Analytical Subtotal	$590.00

Total Number of Charges 11

Total Invoice Amount **$590.00**

Samples Received for analysis:

Lab ID	Client Sample ID	Received
60279538001	EXPANDED EFF TEST #2	9/5/2018 9:54:00
60279538002	TRIP BLANK	9/5/2018 9:54:00

****1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**
PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

2ND ROUND OF TESTING FOR NEXT PERMIT RENEWAL

Please complete and return copy of invoice with your payment.

INVOICE TOTAL **$590.00**

Amount Paid: $ ______

Check No: ______

Customer No: 60-531557 Invoice No: 1860058235

GL Acct#: 1230-20 100% / BUDGET

Signature: Gary Hutchcraft

Date: 9/21/18

AESTHETIX ELECTRIC

September 6, 2018.

Alliance Water Resources
Lake Ozark/Osage Beach WWTP
PO Box 1985
Lake Ozark Mo, 65049

RECEIVED SEP 17 2018

Invoice#90618668

A. Repairs to UV Flow Meter:
   - Looked at UV Flow Meter
   - Found a Bad Surge Suppression Card for the Current Loop
   - Bypassed Protection until Customer Install New Surge Suppression

Invoice Total $190.00

- **Net 30 days with 1.5% added monthly**

GL Acct#: 6705-20 $95.00 1220-20 $95.00
Signature: [signature]
Date: 9/17/18

Steve Durbin
Aesthetix Electric

THANK YOU FOR YOUR BUSINESS AND REFERRALS

573.348.1429
aesthetixelectric.com | steve@aesthetixelectric.com
6181 Brook Hollow | Osage Beach MO, 65065

John Henry Foster

REMIT TO: P.O. BOX 419161
Creve Coeur, MO 63141-9161

Ph (314) 427-0600
Fax (314) 427-3502

Invoice #	INV-O0240177
Page	1 of 1
Invoice Date	09/18/2018

SOLD TO

Account #: C000462
Alliance Water Resources
#3 Anderson Road
P.O. Box #1985
Lake Ozark, MO 65049

RECEIVED SEP 21 2018

SHIP TO

C000462
Alliance Water Resources
#3 Anderson Road
P.O. Box #1985
Lake Ozark, MO 65049

Customer PO Number	Ship Date	Salesperson	Packing Slip	Terms	Order Date
VERBAL GARY HUTCHCRAFT	09/18/2018	John Henry Foster	PS-00498622	Net 20 Days	09/10/2018

JHF Order #	Order Entered By	Placed By	Ship Via / Secondary Shipping	
SO-00204370	Carla Ficke	Gary Hutchcraft	UPSG	BestWay

Part Number / Description	Ordered	Shipped	Backordered	Price Each	Extension
85565505 I-R FILTER ELEMENTFOR F35IG	1	1	0	79.00	79.00
85565513 I-R F35IHE FILTER ELEMENT	1	1	0	79.00	79.00
88347497 IR DESICCANT REPLACEMENTKIT -40 DEWPOINT	1	1	0	92.00	92.00
85565539 I-R FILTER ELEMENTFOR F35ID	1	1	0	92.00	92.00
85582229 I-R CHECK VALVEPORTD FOR REL VLV & UNLOADER	1	1	0	60.00	60.00

UV system Supplies

GL Acct#: 6705-20 $262.00 1820-20 $223.36

Signature: [signature]

Date: 9/21/18

Review and place orders at www.jhf.com!	Subtotal	Charges	Freight	Sales Tax	TOTAL
Subject to Terms and Conditions at http://www.jhf.com/terms_of_purchase.htm	402.00	0.00	44.72	38.64	485.36

QF-03-02 10-01-2005

Sears
OSAGE BEACH - AUTH H 03762
3629 OSAGE BEACH PARKWAY
OSAGE BEACH, MO 65065-0000
573-348-8999

SALESCHECK # 037629014194

TRAN#	PG/STORE	REG#	ASSOC#
4194	01 03762	901	745

SALE

71 74092	CM26CCTRIM SAL	99.99T
71 85970	TUBE CUT X MDS	7.49T
	UPC: 750631040912	
71 36549	2 CYCLE OI MDS	1.99T
	UPC: 085051000810	
71 33500	STABILIZER MDS	5.99T
	UPC: 085051101636	
	SUBTOTAL	115.46
	TAX 07.475%	8.63

ACCT #: C1719/0
AUTH CODE: 020266/E
AID: A0000000041010
APPL PREF NAME: MasterCard
CVM: VERIFIED BY SIG
P.O. NUMBER:
08/17/18 MASTERCARD TOTAL 124.09

RC: 8129-2078-2900-2919-0619

I AGREE TO THE TERMS OF
MY CARDHOLDER AGREEMENT.

RETURN POLICY
FOR MEMBERS AT TIME OF PURCHASE, 45 DAYS FOR REFUNDS OR EXCHANGES FOR MOST ITEMS- 30 DAYS FOR ALL DELIVERED/ INSTALLED AND NON-MEMBER PURCHASES. RECEIPT ALWAYS REQUIRED. SEE SEARS.COM OR ASSOCIATE FOR COMPLETE POLICY AND EXCEPTIONS.

YOU MUST REPORT ANY VISIBLE DAMAGE ON THIS ITEM WITHIN 72 HOURS OF HOME DEL. TO BE ELIGIBLE FOR REFUND OR EXCHANGE. IF VISIBLE DAMAGE IS NOT REPORTED THE REFUND OR EXCHANGE WON'T BE ACCEPTED. TO REPORT DAMAGES AND OBTAIN REQUIRED CLAIM NO. CALL 1-800-732-7747 M-F 6:00 AM TO MIDNIGHT CST (EXCEPT CHRISTMAS). IN THE EVENT OF A RETURN OF ORIGINAL QUALIFYING MERCHANDISE, REWARD CARD(S) WILL BE DEDUCTED FROM ANY REFUND AMOUNT.

RECEIVED
AUG 17 2018

REPLACED OLD WEED EATER

GL Acct#: 6700-20 $66.36 1280-20 $57.73
Signature: [signature]
Date: 8/17/18

See back of receipt for your chance
to win $1000 ID #:7N4D8QGTU5M

Walmart

573-348-6445 Mgr:DAVID BLANKENSHIP
4252 HIGHWAY 54
OSAGE BEACH MO 65065
ST# 00015 OP# 002124 TE# 06 TR# 09064

WEED KILLER	002149626171	34.92 X
WEED KILLER	002149626171	34.92 X
WEED KILLER	002149626171	34.92 X
	SUBTOTAL	104.76
TAX 1 7.475 %		7.83
	TOTAL	112.59
	MCARD TEND	112.59

MasterCard 1249 I 1 APPR#013765
REF # 1042000814
AID A0000000041010
TC 0D88BA41CD325BF9
TERMINAL # 203797587
*NO SIGNATURE REQUIRED
08/21/18 11:37:20
* CHANGE DUE 0.00
# ITEMS SOLD 3
TC# 0593 0078 2142 9640 9621 6

08/21/18 11:37:20
CUSTOMER COPY
Use Walmart Pay to save your receipts.

RECEIVED
AUG 21 2018

GROUNDS
WEED KILLER

GL Acct#: 6700-20 $60.21 1220-20 $52.38

Signature: Gary [signature]

Date: 8/21/18

MOUSER ELECTRONICS

1000 North Main Street, Mansfield, TX 76063

Customer Service Rep: Anthony Hernandez
Customer Service: 800-346-6873
Credit: 800-333-9924
Federal ID# 61-1520598

Mouser Electronics, Inc.
P.O. Box 99319
Fort Worth, TX 76199-0319
* Reference Number: 1883729

INCOTERMS: FCA Shipping Point

Invoice - Credit Card Receipt

Invoice No.	Invoice Date	Page No.
69446171	31-AUG-18	1 of 1

Purchase Order No.	Master Tracker No.
083018	1277594 50307864231

Buyer Name	Ship Via	Customer No.	Terms	Order Date
GARY HUTCHCRAFT	UPS GROUND SERVICE	1883729	MC 1719	30-AUG-18

Bill To
ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK, MISSOURI 65049
UNITED STATES

Ship To
ALLIANCE WATER RESOURCES
3 ANDERSON RD.
LAKE OZARK, MISSOURI 65049
UNITED STATES

Line No.	Mouser Part Number Customer/MFG Part No. Description	Quantity Ordered	Quantity Shipped	Quantity Pending	Unit Price (USD)	Extended Price (USD)
1	651-2814508 MFG Part No: 2814508 Phoenix Contact MCR-C-I/I-00-DC / Terminal Block Interface Modules US HTS:8538901000 ECCN:EAR99 COO:DE	1	1	0	391.490	391.49

RECEIVED
SEP 05 2018

Merchandise	Handling	Freight	TAX	Paid by credit card	USD $402.18
391.49	0.00	10.69	0.00		

Shipping Information

GL Acct#: 6705-20 $201.09 1220-20 $201.09
Signature: [signature]
Date: 9/5/18

Tracking Number(s) and Billed Weights

1277594503078642 31	1.00 lb

This order is subject to all terms and conditions displayed at: http://www.mouser.com/salesterms

LOWE'S

LOWE'S HOME CENTERS, LLC
950 HIGHWAY 42
OSAGE BEACH, MO 65065 (573) 302-8808

\- SALE -

SALES#: S1147SE1 840172 TRANS#: 26075175 09-04-18

1034248 12V/7AH BATTERY	131.84
4 @ 32.96	
SUBTOTAL:	131.84
TAX:	10.18
INVOICE 08815 TOTAL:	142.02
M/C:	142.02

M/C:XXXXXXXXXXXX1719 AMOUNT:142.02 AUTHCD:080910
CHIP REFID:114708331244 09/04/18 10:32:03
CUSTOMER CODE: gary
APL: MasterCard TVR: 0000008000
AID: A0000000041010 TSI: E800
STORE: 1147 TERMINAL: 08 09/04/18 10:33:40
\# OF ITEMS PURCHASED: 4
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS

THANK YOU FOR SHOPPING LOWE'S.
SEE REVERSE SIDE FOR RETURN POLICY.
STORE MANAGER: BRIAN ARWOOD

LOWE'S PRICE MATCH GUARANTEE
FOR MORE DETAILS, VISIT LOWES.COM/PRICEMATCH

STORE: 1147 TERMINAL: 08 09/04/18 10:33:40

RECEIVED
SEP 0 4 [redacted]

REPLACEMENT BATTERY
BACKUP BATTERIES
FOR UV SYSTEM

GL Acct#: 6705-20 $76.10 1220-20 $65.92
Signature: Gary Hutchcraft
Date: 9/4/18

CASE IH CASE Kubota

3621 Rockport Hills Rd
Jefferson City, MO 65101
Phone: (573) 636-5281

3969 Hwy 52 West
Eldon, MO 65026
Phone: (573) 392-0230

1881 Prathersville Rd
Columbia, MO 65202
Phone: (573) 443-4541

3815 South Springfield Ave
Bolivar, MO 65613
Phone: (417) 326-7641

22089 Hwy 127
LaMonte, MO 65337
Phone: (660) 347-5855

103 Hwy 24 West
Salisbury, MO 65281
Phone: (660) 388-6425

22595 Highway H
Monett, MO 65708
Phone: (417) 235-5222

RECEIVED
SEP 1 0 2018

RO: 13731E
Invoice: 18420E
Date: 09/10/2018

ALLIANCE WATER RESOURCES
GARY HUTCHCRAFT
PO BOX 1985
LAKE OZARK, MO 65049

Type: LAWNMOWER RO Open Date: 09/10/18 Meter In: 158

001		DECK BELT				
		D DECK BELT				
		F BLADES VERY VERY WORN. REPLACED BLADES. CHECK PULLEYS FOR DAMAGE, NONE FOUND. INSTALLED BELT. MOWED WITH UNIT FOR APPROXIMATLEY 30 MINUTES. INSPECTED BELT FOR DAMAGE, NONE FOUND. TESTED OK.				
	CL	L CUSTOMER LABOR				
		CUSTOMER LABOR				169.20
		P K5579-36710 BELT, MOWE	1.00	68.80	68.80	68.80
		P K5575-97530 KIT BLADE	1.00	49.69	49.69	49.69
			Subtotal charges this section			287.69
		M SHOP SUPPLIES				11.84

THANK YOU FOR YOUR BUSINESS

GL Acct#: 6702-20 $157.22 1220-20 $149.77

Signature: Gary Hutchcraft

Date: 9/10/18

MASTER CARD *1719 XX/XX Auth:049172 306.99

Order ID: 180910102737604O2

CUSTOMER FINAL INVOICE

page 1 of 1

Lake Sun GateHouse Media

LAKE SUN LEADER
GATEHOUSE MEDIA MO HOLDINGS, INC.
Legal Advertising Invoice

918 N. Business Route 5
Camdenton, MO 65020-0980
573-317-8151 FAX 573-346-4508

JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049

RECEIVED SEP 27 2018

RE: BID- CLARIFIER PAINT PROJECT
PN: 21073
ACCT# 86691

AFFIDAVIT OF PUBLICATION
(State of Missouri)
) SS
(County of Camden)

I, JOYCE MILLER, BEING DULY SWORN ACCORDING TO LAW, STATE THAT I AM (REGIONAL EDITOR) OF THE LAKE SUN LEADER, A DAILY NEWSPAPER OF GENERAL CIRCULATION IN THE COUNTY OF CAMDEN, MISSOURI, WHERE LOCATED; WHICH HAS BEEN ADMITTED TO THE POST OFFICE AS PERIODICAL MATTER IN THE CITY OF CAMDENTON, THE CITY OF PUBLICATION: WHICH NEWSPAPER HAS BEEN PUBLISHED REGULARLY AND CONSECUTIVELY FOR A PERIOD OF THREE YEARS AND HAS A LIST OF BONAFIDE SUBSCRIBERS VOLUNTARILY ENGAGED AS SUCH WHO HAVE PAID OR AGREED TO PAY A STATED PRICE FOR A SUBSCRIPTION FOR A DEFINITE PERIOD OF TIME, AND THAT SUCH NEWSPAPER HAS COMPLIED WITH THE PROVISIONS OF COMMITTEE SUBSTITUTE FOR SENATE BILL 39 ENACTED BY THE FIFTY-NINTH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE AFFIXED NOTICE APPEARED IN SAID NEWSPAPER ON THE FOLLOWING CONSECUTIVE WEEKS (ISSUES).

FROM: 09/25/2018	**TO: 09/25/2018**
VOL 139 NO 187	DAY OF SEPTEMBER 25, 2018

SIGNED: ______________________________
JOYCE MILLER (REGIONAL EDITOR)

PUBLICATION FEE DUE: $ 238.50
SUBSCRIBED AND SWORN TO BEFORE ME THIS
25 DAY OF SEPTEMBER, 2018.

SIGNED: ______________________________ (NOTARY PUBLIC)
KATHLEEN L. MOORE
NOTARY PUBLIC STATE OF MISSOURI, CAMDEN COUNTY

MY COMMISSION EXPIRES MARCH 5, 2022

Payment is due upon receipt of this invoice.
Proof of Publication is available on or after the last day of publication.
After payment is received, signed & notarized affidavit will be issued.

John Henry Foster

www.jhf.com

Invoice #	INV-00242502
Page	1 of 1
Invoice Date	09/27/2018

REMIT TO: P.O. BOX 419161
Creve Coeur, MO 63141-9161

Ph (314) 427-0600
Fax (314) 427-3502

SOLD TO

Account #: C016283
Joint Sewer Board
c/o Alliance Water Resources
P.O. Box 1985
Lake Ozark, MO 65049

RECEIVED
OCT 02 2018

SHIP TO

C000462
Alliance Water Resources
#3 Anderson Road
P.O. Box #1985
Lake Ozark, MO 65049

Customer PO Number	Ship Date	Salesperson	Packing Slip #	Terms	Order Date
VERBAL GARY	09/26/2018	John Henry Foster	PS-00503251	Net 20 Days	09/26/2018

JHF Order #	Order Entered By	Placed By	Ship Via / Secondary Ship Via	
SO-00208017	Carla Ficke	Gary Hutchcraft	UPSNDAAM	BestWay

Part Number / Description	Ordered	Shipped	Backordered	Price Each	Extension
2340 BARE I-R BARE 5 HP COMPRESSOR	1	1	0	898.61	898.61

Review and place orders at www.jhf.com!	Subtotal	Charges	Freight	Sales Tax	TOTAL
Subject to Terms and Conditions at http://www.jhf.com/terms_of_purchase.htm	898.61	0.00	279.48	0.00	1,178.09

QF-03-02 10-01-2005

MONTH-TO-DATE AND YEAR-TO-DATE

REVENUE/BUDGET ANALYSIS

9/30/2018

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 9/30/2018	2018 Sept. Revenue	Percent YTD
3020	Osage Beach	475,802.57	478,614.41	478,500.00	361,461.85	40,156.78	76%
3010	Lake Ozark	74,197.42	71,385.58	71,500.00	51,038.13	5,676.55	71%
3100	Interest	368.52	781.57	500.00	1,048.21	269.95	210%
3060	Waste Haulers' Fee	33,460.00	30,500.00	34,500.00	20,100.00	4,540.00	58%
	Total Operating Fund	583,828.51	581,281.56	585,000.00	433,648.19	50,643.28	74%
	E/R Fund Income	2,847.67	2,319.07	2,300.00	3,269.41	307.12	142%
	TOTAL INCOME	586,676.18	583,600.63	587,300.00	436,917.60	50,950.40	74%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
9/30/2018

Account Number	Account Name	2016 Acutal	2017 Acutal	2018 Budget	2018 Actual as of 9/30/2018	2018 Sept. Expenses	Percent YTD
4000	Equipment Replace Fund	41 606 04	41,604.17	41,604.00	31 203 17	3,467 00	75%
4020	*Maintenance & Repair	18 735 50	129,789.11	115,000.00	6 578 27	1,704 96	6%
4140	Insurance	16,977 00	17,144.00	17,600.00	18.475 25	0.00	105%
4150	Vehicle Repair/Maint	951 93	12,047.61	3,000.00	3,472.23	2,018.41	116%
4160	Haulers Fees to Contractor	8,000 00	8,000.00	8,000.00	7.780.00	1,500.00	97%
4170	Contract Management	303,638 88	311,229.84	320,566.84	239,257.98	26,584.22	75%
4185	Electric	72,637 17	69,261.90	75,000.00	64,800.80	10,399 56	86%
4190	Bank Charges	14 85	24.35	0.00	11.00	5.00	0%
4200	Audit	2,158 50	2,200.00	2,300.00	2,300 00	0 00	100%
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	373,878.70	45,679 15	51%
	**E/R Expenses	7,980.42	7 554 68	67,500 00	29,462 00	29,462 00	44%
	TOTAL EXPENSES	481,893.38	600,055.66	801,770.84	403,340.70	75,141 15	50%

Equipment & Replacement

Pickup 4X4 w/snow plow	35,000.00	X
Replace Actuator	9,000.00	
Replace ducking skimmer arm	5,000.00	
Replace wooden doors	2,000.00	
Replace LED parking lot lights	9,000.00	
Replace impellers for RAS pump	7,500.00	
	67,500.00	

*Maintenance & Repair

Auto Dialer Yrly Software Fee	X	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
		-
		115,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
9/30/2018

Beginning Balance	**332,702.94**
Income - Osage Beach	40,156.78
Income - Lake Ozark	5,676.55
Income - Other	-
Income - Waste Haulers' Fees	4,540.00
Interest - Checking	92.27
Income - CD Interest	177.68
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(42,212.15)
Ending Fund Balance	**337,667.07**
Central Bank - NOW Acct.	110,768.51
CD Central Bank, 12/18 #150784	75,000.00
First Bank of the Lake - Money Mkt.	101,369.96
CD St. Elizabeth, 3/19 #400886	50,528.60
Outstanding Checks:	-
Deposit in Transit:	-
	337,667.07

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
9/30/2018

Beginning Balance	**524,862.37**
Interest - Checking	129.44
Income - CD Interest	177.68
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	**528,636.49**
First Bank of the Lake - Money Mkt.	171,708.26
CD Providence Bank, 7/19 #1268880	203,934.35
CD First Bank of the Lake, 01/18 #101318429	102,465.28
CD St. Elizabeth, 3/19 #485431	50,528.60
Deposit in Transit	-
Outstanding Checks:	-
	528,636.49

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

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

Period	Page
09/01/2018 - 09/28/2018	1 of 3

Web Address
www.centralbank.net

M

Your Financial Summary on September 28, 2018

	Bank Deposits			Totals
Bank Deposit Accounts:				
Checking	$	110,768.51		
Certificates of Deposit	$	75,000.00		
Bank Deposit Total			$	185,768.51
Total Assets:	$	185,768.51	$	185,768.51

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 — Beginning Balance August 31, 2018 — $ 106,060.05

Deposits

Sep. 18	Deposit	5,676.55
Sep. 18	Deposit	40,156.78
Sep. 26	Deposit	4,540.00
Sep. 28	Interest Earned	14.28

Total +$ 50,387.61

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3674	Sep. 26	11.00	3685	Sep. 24	1,266.06
3681	Sep. 26	10,399.56	3686	Sep. 20	2,007.41
3682	Sep. 20	3,467.00	3687	Sep. 26	407.40
3683	Sep. 24	26,584.22	3688	Sep. 21	31.50
3684	Sep. 24	1,500.00			

Total -$ 45,674.15

Withdrawals and other charges

Date	Type	Transaction Description	Amount
Sep. 04	08/2018 TWO SIGNATURE VERI		5.00

Total -$ 5.00

Ending Balance September 28, 2018 $ 110,768.51

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 5/31/18				**165,258.93**
3663	Ameren MO	X	10,115.89	-	155,143.04
3664	Equipment Replacement Fund	X	3,467.00		151,676.04
3665	Alliance Water Resources, Inc.	X	26,584.22		125,091.82
3666	Alliance Water Resources, Inc.	X	490.00		124,601.82
3667	Alliance Water Resources, Inc.	X	1,052.52		123,549.30
	Deposit LO	X	-	5,719.38	129,268.68
	Deposit OB	X		40,113.95	169,382.63
	Deposit	X		3,800.00	173,182.63
	Interest	X		12.92	173,195.55
	reconciled balance 6/30/18				**173,195.55**
3668	Ameren MO	X	11,386.78	-	161,808.77
3669	Equipment Replacement Fund	X	3,467.00		158,341.77
3670	Alliance Water Resources, Inc.	X	26,584.22		131,757.55
3671	Alliance Water Resources, Inc.	X	1,900.00		129,857.55
3672	Alliance Water Resources, Inc.	X	1,338.18		128,519.37
3673	Gerding, Korte & Chitwood	X	2,300.00	-	126,219.37
	Deposit LO	X	-	6,315.26	132,534.63
	Deposit OB	X		39,518.08	172,052.71
	Deposit	X		4,280.00	176,332.71
	Interest	X		13.40	176,346.11
	reconciled balance 7/31/18				**176,346.11**
3674	Dept of Revene	X	11.00		176,335.11
3675	Ameren MO	X	10,416.89	-	165,918.22
3676	Equipment Replacement Fund	X	3,467.00		162,451.22
3677	Alliance Water Resources, Inc.	X	26,584.22		135,867.00
3678	Alliance Water Resources, Inc.	X	2,140.00		133,727.00
3679	Alliance Water Resources, Inc.	X	445.97		133,281.03
3680	Naught Naught	X	1,073.00	-	132,208.03
	Two signature verification chg.	X	6.00		132,202.03
	Deposit LO	X	-	5,612.20	137,814.23
	Deposit OB	X		40,221.13	178,035.36
	Deposit	X		3,000.00	181,035.36
	Interest	X		13.69	181,049.05
	reconciled balance 8/31/18				**181,049.05**
3681	Ameren MO	X	10,399.56		170,649.49
3682	Equipment Replacement Fund	X	3,467.00	-	167,182.49
3683	Alliance Water Resources, Inc.	X	26,584.22		140,598.27
3684	Alliance Water Resources, Inc.	X	1,500.00		139,098.27
3685	Alliance Water Resources, Inc.	X	1,266.06		137,832.21
3686	Roemer's Heavy Equip & Truck	X	2,007.41		135,824.80
3687	Mission Communications LLC	X	407.40	-	135,417.40
3688	Lake Sun Leader	X	31.50		135,385.90
	Two signature verification chg.	X	5.00		135,380.90
	Deposit LO	X	-	5,676.55	141,057.45
	Deposit OB	X		40,156.78	181,214.23
	Deposit	X		4,540.00	185,754.23
	Interest	X		14.28	185,768.51
	reconciled balance 9/30/18				**185,768.51**

FIRST BANK OF THE LAKE

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

536 00010 01
ACCOUNT:
DOCUMENTS: 1

PAGE: 1
09/28/2018

00123 3086936 1OZ ATM 608.117.1.4

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

First Bank of the Lake takes the security of our client's financial accounts very seriously. Due to a global rise in identity theft and and online fraud, we are now offering the ability to add secure access codes and security questions to your account information. If you would like to add this additional layer of security to your accounts with us, please call us at 573-348-2265.

MONEY MARKET ACCOUNT ACCOUNT BUSINESS MONEY MARKET)

LAST STATEMENT 08/31/18	269,403.79
2 CREDITS	3,674.43
DEBITS	.00
THIS STATEMENT 09/28/18	273,078.22

- - - - - - - - - - - DEPOSITS - - - - - - - - - -

REF #	DATE	AMOUNT	REF #	DATE	AMOUNT	REF #	DATE	AMOUNT
	09/19	3,467.00						

- - - - - - - - - OTHER CREDITS - - - - - - - - - -

DESCRIPTION	DATE	AMOUNT
INTEREST	09/28	207.43

- - - - - - - - - - - I N T E R E S T - - - - - - - - - - -

AVERAGE LEDGER BALANCE:	270,642.00	INTEREST EARNED:	207.43
AVERAGE AVAILABLE BALANCE:	270,394.36	DAYS IN PERIOD:	28
INTEREST PAID THIS PERIOD:	207.43	ANNUAL PERCENTAGE YIELD EARNED:	1.00%
INTEREST PAID 2018:	1,776.31		

* * * C O N T I N U E D * * *

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 5/31/18				**287,769.38**
	Interest	X		191.66	287,961.04
	Deposit	X		3,467.00	291,428.04
	reconciled balance 6/30/18				**291,428.04**
	Interest	X		256.35	291,684.39
	Deposit	X		3,467.00	295,151.39
	reconciled balance 7/31/18				**295,151.39**
	Interest	X		247.40	295,398.79
	Deposit	X		3,467.00	298,865.79
1024	Hutcheson Ford Sales, Inc.	X	29,462.00		269,403.79
	reconciled balance 8/31/18				**269,403.79**
	Interest	X		207.43	269,611.22
	Deposit	X		3,467.00	273,078.22
	reconciled balance 9/30/18				**273,078.22**

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

WATER RESOURCES® Alliance

Professional Water and Wastewater Operations

REPORT OF OPERATIONS

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

Month of September 2018

Submitted by Alliance Water Resources, Inc. for the

October 2018

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 Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.2	2.0	N/A	< 20	0.05	< 5.0	< 1.0
Peak Day	1.7	2.9	8.1	< 20	0.06	< 5.0	< 1.0
Percent Removal	99.1	99.0	N/A	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126	1.1	10	4.0
Weekly Average	45	45		630			
Daily Max					6.0	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.775 MGD or 59% 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 62275 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 51 tanker loads of bio-solids during the month equivalent to a total of 188,700 gallons and 66,098 pounds dry weight solids.

439,103 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 315,000 gallons with a level of 4.5 feet in Tank 1 and 2.5 feet in Tank 2.

WASTEHAULERS

The plant received 45 loads of septage during the month totaling 113,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We took clarifier #3 out of service on the 25th of September and started draining it in preparation of getting it sandblasted and painted.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We took the riding mower to the shop on the 5th of September to find out why the mower deck belt kept coming off and got it back on the 10th.
- We had a flat on the sludge truck on the 17th of September and Clark Tire was here on the 18th to fix it.
- We came in on the 26th of September and found that the UV air compressor had quit and upon troubleshooting it we found that the compressor had no compression. We called John Henry Foster company our state-wide Ingersoll Rand dealer and they same day shipped it to us and we had it back going before quitting time that same day.

SAFETY

- We conducted our monthly routine Safety Meeting on Confined Space Entry on the 12th of September.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 5th of October.

MISCELLANEOUS AND RECOMMENDATIONS

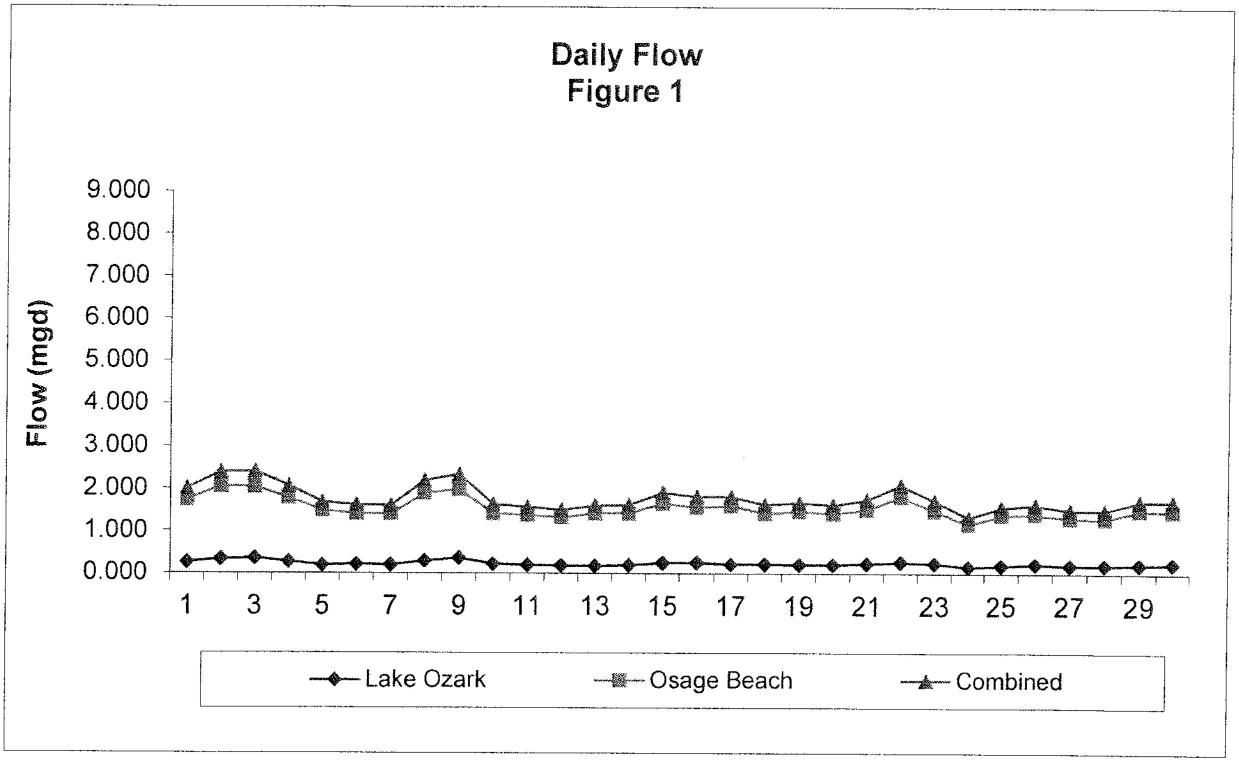
- The bi-annual I & I flow report for the Cities of Lake Ozark & Osage Beach are attached and an updated Capitol Improvement Item description for consideration for budget year 2019 is also attached.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF September 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-Sep	**0**	**0.268**	**1.740**	**2.008**	**13.3**	**86.7**						
2-Sep	**0**	**0.338**	**2.062**	**2.400**	**14.1**	**85.9**						
3-Sep	0	0.361	2.045	2.406	15.0	85.0						
4-Sep	0	0.283	1.783	2.066	13.7	86.3						
5-Sep	0	0.194	1.486	1.680	11.5	88.5						
6-Sep	0	0.211	1.407	1.618	13.0	87.0						
7-Sep	0	0.202	1.406	1.608	12.6	87.4	208	160	133	238	104	206
8-Sep	**2**	**0.294**	**1.896**	**2.190**	**13.4**	**86.6**						
9-Sep	**1.1**	**0.359**	**1.982**	**2.341**	**15.3**	**84.7**						
10-Sep	0	0.220	1.414	1.634	13.5	86.5						
11-Sep	0	0.196	1.375	1.571	12.5	87.5						
12-Sep	0	0.183	1.322	1.505	12.2	87.8						
13-Sep	0	0.181	1.420	1.601	11.3	88.7						
14-Sep	0	0.201	1.420	1.621	12.4	87.6	153	140	110	148	140	158
15-Sep	**0.0**	**0.250**	**1.657**	**1.907**	**13.1**	**86.9**						
16-Sep	**0**	**0.256**	**1.567**	**1.823**	**14.0**	**86.0**						
17-Sep	0	0.218	1.598	1.816	12.0	88.0						
18-Sep	0	0.218	1.416	1.634	13.3	86.7						
19-Sep	0	0.206	1.471	1.677	12.3	87.7						
20-Sep	0	0.207	1.419	1.626	12.7	87.3						
21-Sep	0	0.236	1.515	1.751	13.5	86.5	173	158	148	228	116	260
22-Sep	**0**	**0.271**	**1.817**	**2.088**	**13.0**	**87.0**						
23-Sep	**0**	**0.234**	**1.481**	**1.715**	**13.6**	**86.4**						
24-Sep	0	0.164	1.160	1.324	12.4	87.6						
25-Sep	0	0.194	1.382	1.576	12.3	87.7						
26-Sep	0.3	0.221	1.402	1.623	13.6	86.4						
27-Sep	0	0.193	1.313	1.506	12.8	87.2						
28-Sep	0	0.202	1.297	1.499	13.5	86.5	188	188	170	162	158	194
29-Sep	**0**	**0.217**	**1.497**	**1.714**	**12.7**	**87.3**						
30-Sep	**0**	**0.235**	**1.478**	**1.713**	**13.7**	**86.3**						
SUM	3.4	7.013	46.228	53.241								
AVG		0.234	1.541	1.775	13	87	181	162	140	194	130	205

NOTE: BOLD PRINT INDICATES WEEKEND DAYS


Daily Flow
Figure 1
Flow (mgd)
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
Lake Ozark
Osage Beach
Combined

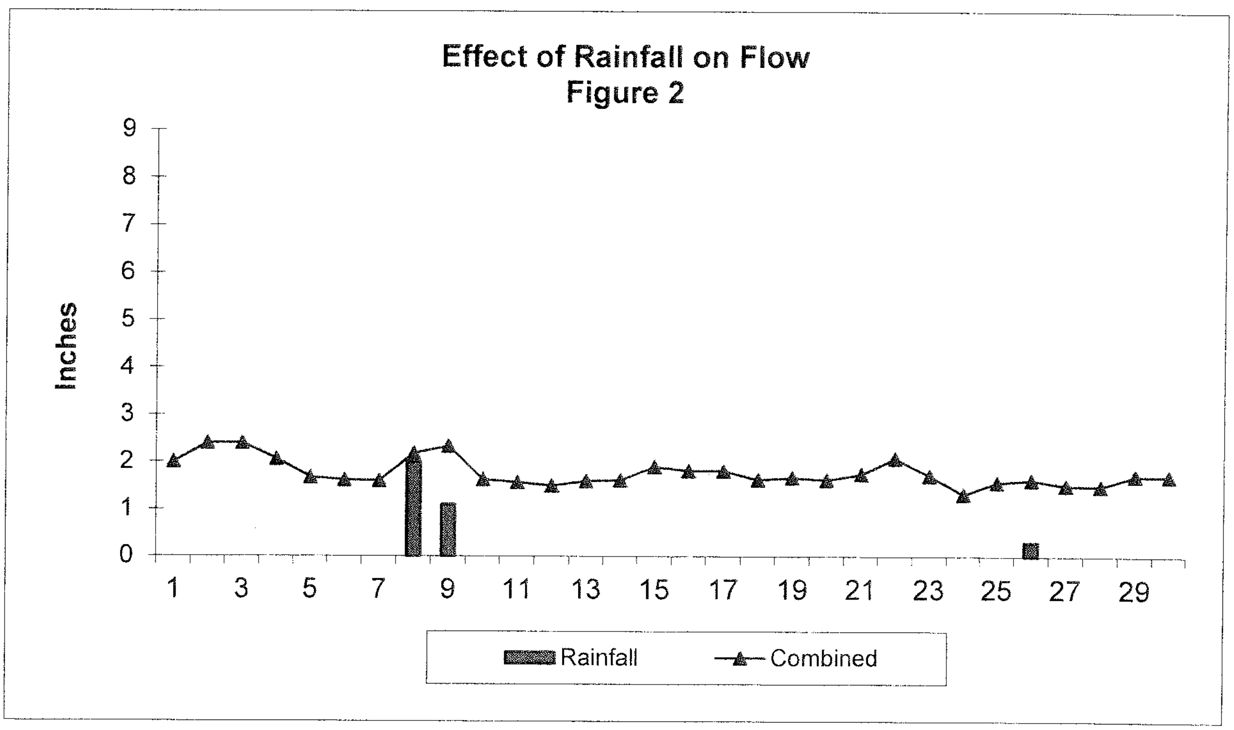

Effect of Rainfall on Flow
Figure 2
Inches
9
8
7
6
5
4
3
2
1
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
Rainfall
Combined

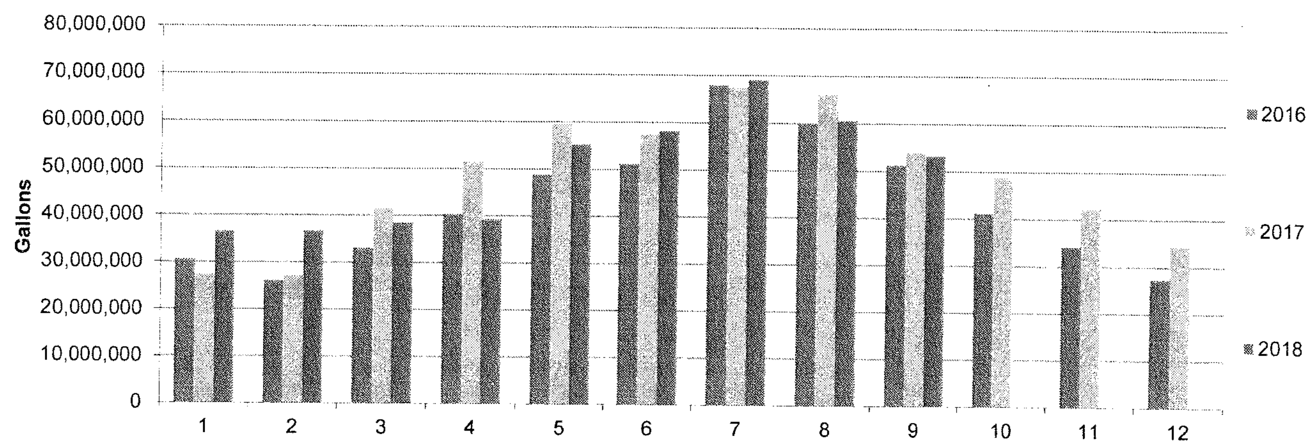
TABLE B
JOINT SEWER BOARD
Monthly Flows

2016	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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%

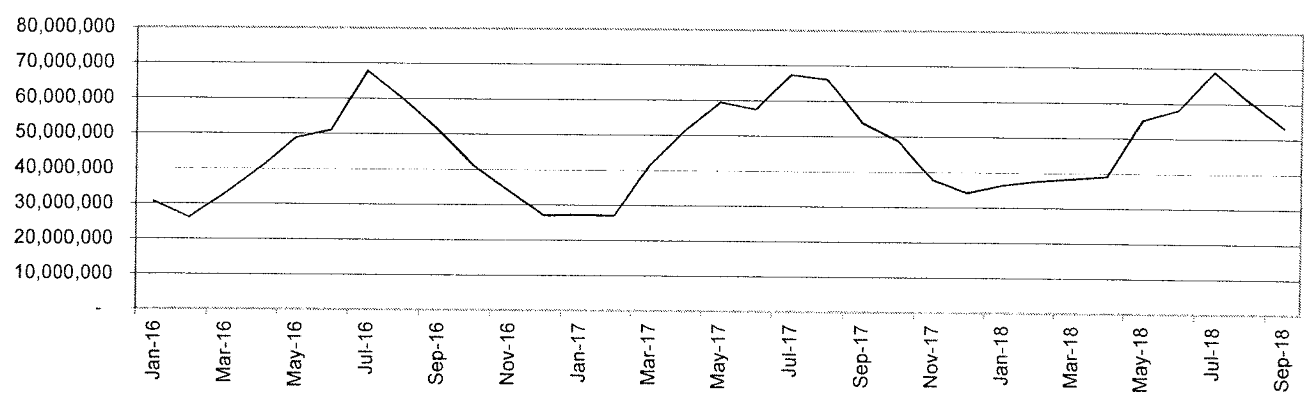
2017	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8	44,665,000	87%	6,723,000	13%	51,388,000	100%
May	8.1	51,527,000	87%	7,979,000	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%

2018	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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							
November							
December							
	34.9	390,110,000	87%	57,089,000	13%	447,199,000	100%

Monthly Influent Flow
Figure 3A

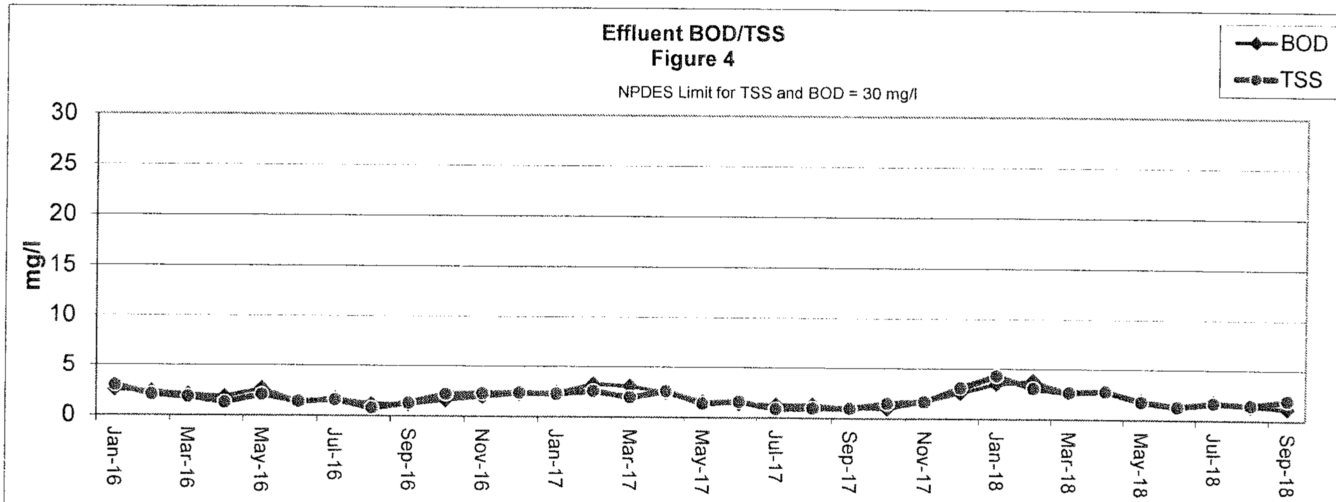


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

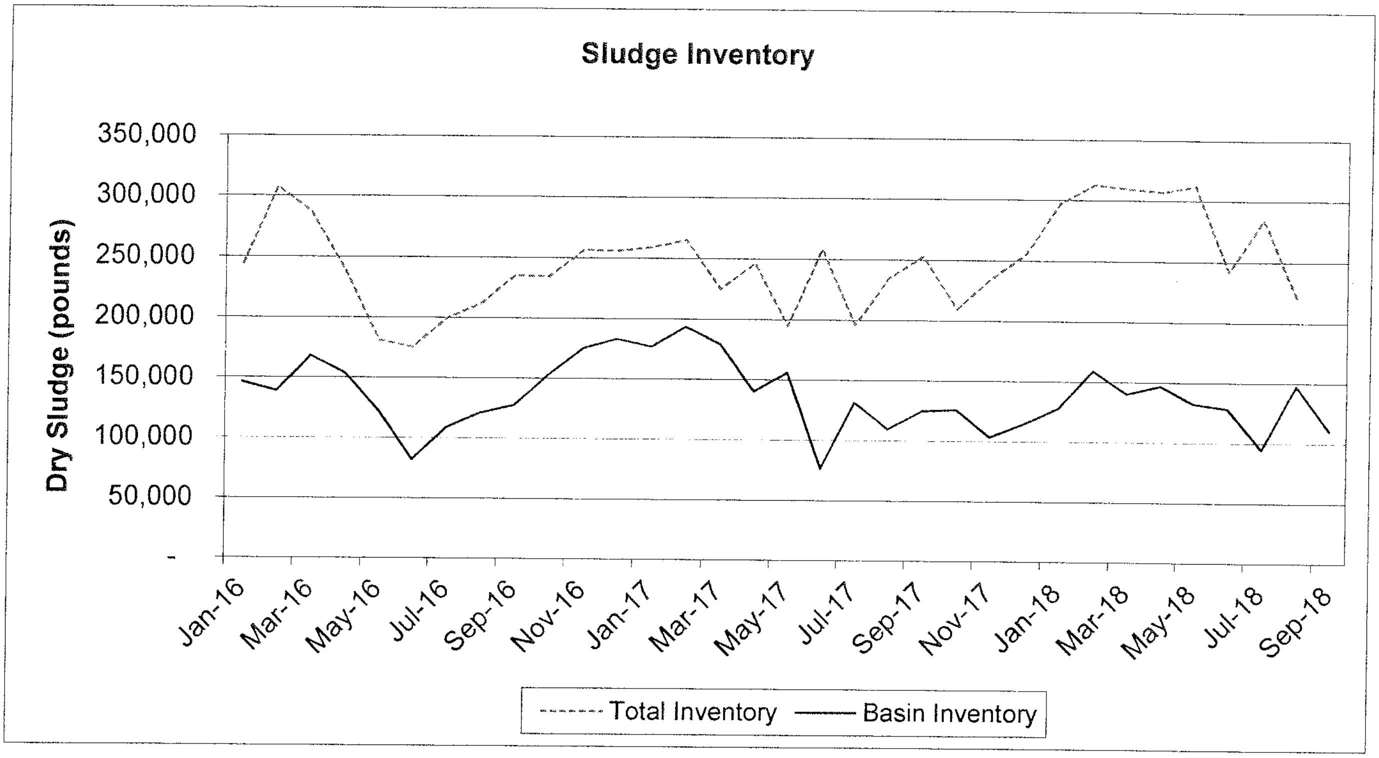
NPDES Limit for TSS and BOD = 30 mg/l

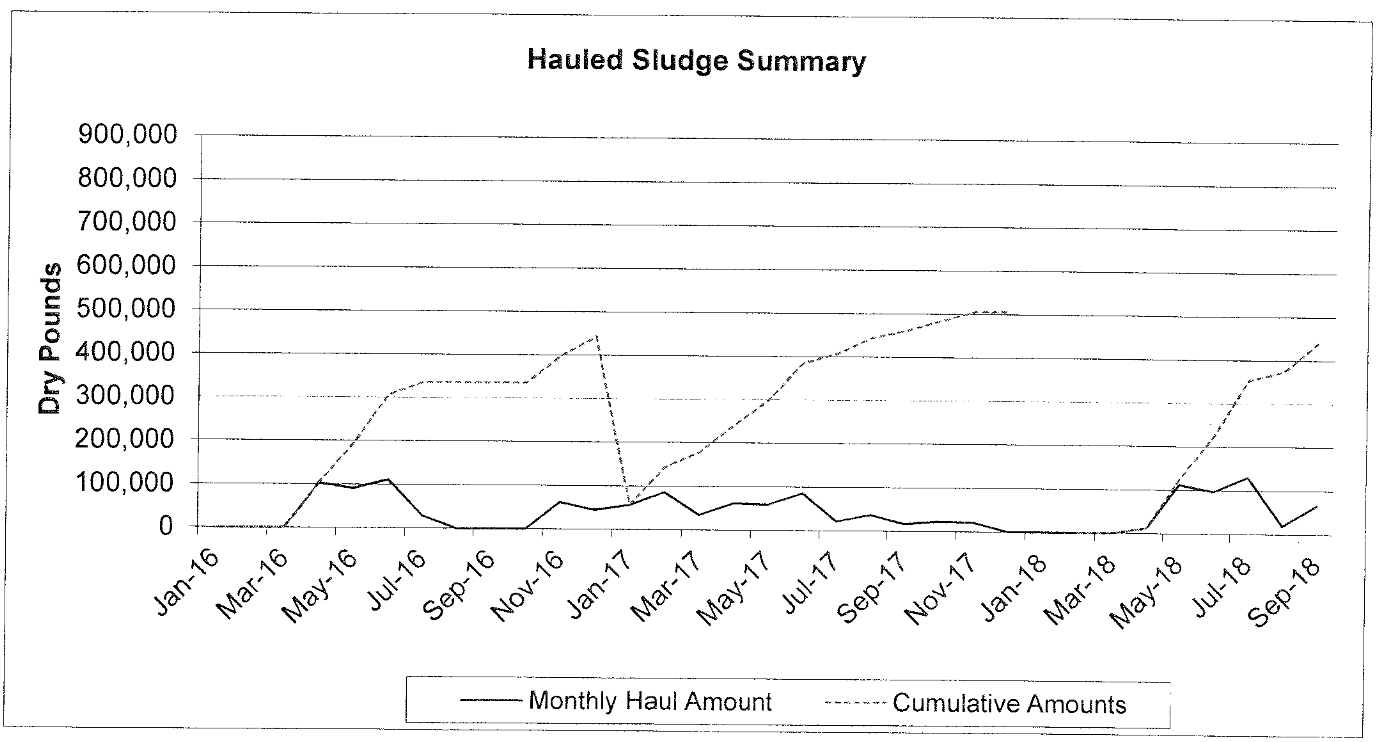


	Hauled Sludge Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-16	0	-	0	3.9%	-
Feb-16	0	-	0	3.9%	-
Mar-16	0	-	0	3.9%	-
Apr-16	86	318,200	103,652	3.9%	103,652
May-16	77	284,900	91,185	3.8%	194,837
Jun-16	99	366,300	111,706	3.7%	306,543
Jul-16	28	103,600	29,408	3.4%	335,951
Aug-16	0	-	0	3.4%	335,951
Sep-16	0	-	0	3.4%	335,951
Oct-16	0	-	0	3.4%	335,951
Nov-16	52	192,400	62,457	3.9%	398,408
Dec-16	36	133,200	45,237	4.1%	443,645
Jan-17	47	173,000	56,748	3.9%	56,748
Feb-17	68	251,600	86,649	4.1%	143,397
Mar-17	33	122,100	34,808	3.4%	178,205
Apr-17	59	218,300	61,994	3.4%	240,199
May-17	51	188,700	59,556	3.8%	299,755
Jun-17	75	277,500	85,724	3.7%	385,479
Jul-17	20	74,000	21,631	3.5%	407,110
Aug-17	39	144,300	37,030	3.1%	444,140
Sep-17	16	59,200	17,311	3.5%	461,451
Oct-17	20	74,000	23,051	3.7%	484,502
Nov-17	20	74,000	21,292	3.4%	505,794
Dec-17	0	-	0	3.4%	505,794
Jan-18	0	-	0	3.4%	
Feb-18	0	-	0	3.4%	-
Mar-18	0	-	0	3.4%	-
Apr-18	11	40,700	12,096	3.6%	12,096
May-18	93	344,100	112,693	3.9%	124,789
Jun-18	88	325,000	97,758	3.6%	222,547
Jul-18	126	466,200	131,023	3.4%	353,570
Aug-18	12	44,400	19,441	5.3%	373,011
Sep-18	51	188,700	66,098	4.2%	439,109

	Basin Depths Tank #1	Tank #2	AB #1	Basin Gallons	# Dry
Jan-16	5.0	5.0	0.0	450,000	146,367
Feb-16	6.0	3.5	0.0	427,500	139,049
Mar-16	6.0	5.5	0.0	517,500	168,322
Apr-16	5.5	5.0	0.0	472,500	153,914
May-16	5.5	3.0	0.0	382,500	122,423
Jun-16	6.0	0.0	0.0	270,000	82,339
Jul-16	4.5	4.0	0.0	382,500	108,577
Aug-16	6.0	3.5	0.0	427,500	121,222
Sep-16	5.0	5.0	0.0	450,000	127,602
Oct-16	6.5	5.5	0.0	540,000	153,122
Nov-16	6.5	5.5	0.0	540,000	175,295
Dec-16	7.5	4.5	0.0	540,000	183,393
Jan-17	6.0	6.0	0.0	540,000	177,132
Feb-17	5.5	7.0	0.0	562,500	193,720
Mar-17	7.5	6.5	0.0	630,000	179,599
Apr-17	6.5	4.5	0.0	495,000	140,573
May-17	7.0	4.0	0.0	495,000	156,228
Jun-17	2.5	3.0	0.0	247,500	76,457
Jul-17	4.5	5.5	0.0	450,000	131,540
Aug-17	5.0	4.5	0.0	427,500	109,704
Sep-17	6.0	3.5	0.0	427,500	125,008
Oct-17	8.0	1.0	0.0	405,000	126,158
Nov-17	4.5	3.5	0.0	360,000	103,583
Dec-17	6.0	3.0	0.0	405,000	114,842
Jan-18	5.5	4.5	0.0	450,000	127,602
Feb-18	7.5	5.0	0.0	562,500	159,503
Mar-18	5.5	5.5	0.0	495,000	140,362
Apr-18	5.0	6.0	0.0	495,000	147,114
May-18	4.5	4.5	0.0	405,000	132,638
Jun-18	4.0	5.5	0.0	427,500	128,589
Jul-18	3.0	4.5	0.0	337,500	94,853
Aug-18	5.0	2.5	0.0	337,500	147,778
Sep-18	4.5	2.5	0.0	315,000	110,338

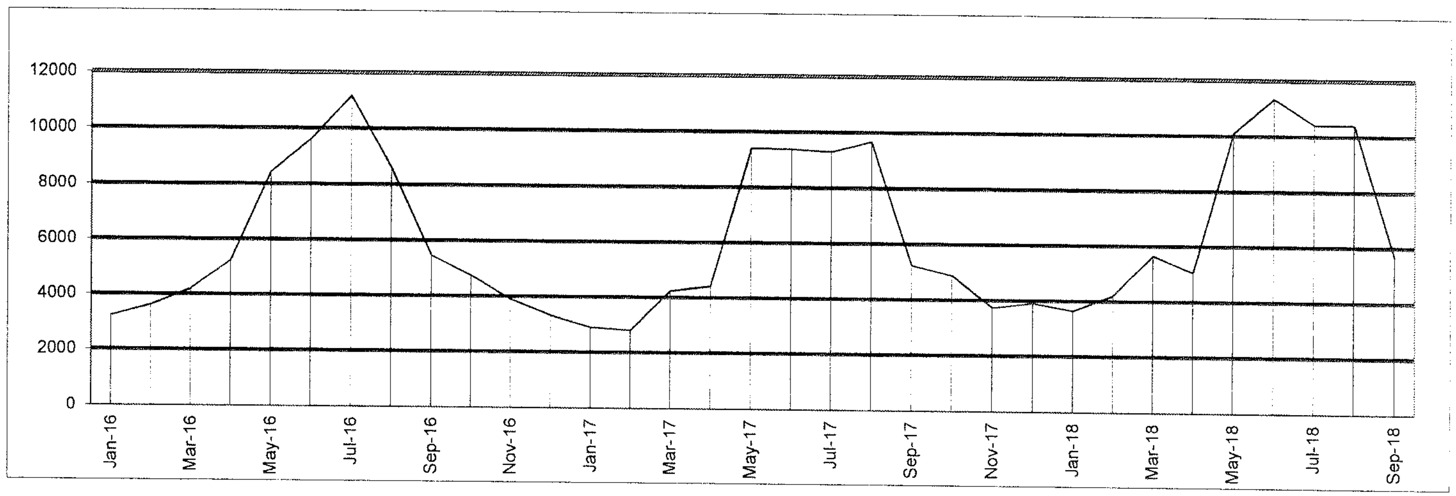
	Blanket Depths Clarf #1	Clarf #2	Clarf #3	MLSS Inventory MLSS AB #1	MLSS AB #2	Blanket and MLSS Inventory Gallons	# Dry	MLSS % Solids	Total Dry Sludge Inventory	Accepted Septage Loads	Gallons
Jan-16	0.5	0.5	0.0	3,760	3,610	3,617,762	111,184	0.00369	257,551	22	55,000
Feb-16	1.0	1.0	0.0	3,210	3,730	3,635,524	105,211	0.00347	244,260	6	15,000
Mar-16	2.0	2.0	1.0	4,670	4,320	3,714,476	139,249	0.0045	307,571	44	110,000
Apr-16	2.5	2.5	1.0	5,540	3,180	3,732,238	132,600	0.00426	286,515	6	15,000
May-16	1.0	5.0	1.0	3,770	3,670	3,750,000	116,343	0.00372	238,766	40	100,000
Jun-16	1.5	1.0	1.5	2,570	3,840	3,709,547	99,155	0.00321	181,494	30	75,000
Jul-16	1.0	1.0	1.0	1,740	2,630	3,678,952	67,041	0.00219	175,618	46	111,000
Aug-16	1.0	1.0	1.0	2,880	2,220	3,678,952	78,240	0.00255	199,462	43	96,000
Sep-16	1.0	1.0	1.0	2,800	2,690	3,678,952	84,223	0.00275	211,825	42	94,500
Oct-16	1.0	1.0	1.0	1,740	3,600	3,678,952	81,922	0.00267	235,045	35	75,500
Nov-16	1.0	0.0	1.5	-	3,770	1,882,904	59,202	0.00377	234,497	11	20,000
Dec-16	1.0	0.0	1.0	-	4,700	1,861,190	72,955	0.0047	256,348	26	54,500
Jan-17	1.0	0.0	1.0	-	5,080	1,861,190	78,853	0.00508	255,986	15	37,500
Feb-17	1.5	0.0	2.0	-	4,090	1,913,499	65,271	0.00409	258,991	5	12,500
Mar-17	3.0	0.0	1.0	-	5,400	1,896,714	85,420	0.0054	265,019	41	102,500
Apr-17	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	224,939	8	20,000
May-17	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00295	246,426	45	116,000
Jun-17	3.0	2.5	1.5	4,530	3,000	3,762,833	118,153	0.00377	194,610	33	82,500
Jul-17	1.0	1.0	0.5	4,670	3,650	3,657,238	126,886	0.00416	258,426	43	107,500
Aug-17	1.0	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	196,173	41	103,500
Sep-17	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	234,892	48	122,000
Oct-17	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	253,182	10	23,500
Nov-17	1.0	1.5	0.5	2,890	4,060	3,666,119	106,250	0.00348	209,832	7	17,500
Dec-17	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792	7	17,500
Jan-18	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500
Feb-18	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000
Mar-18	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000
Apr-18	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
May-18	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Jun-18	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Jul-18	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026	42	107,000
Aug-18	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000
Sep-18	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132	45	113,500


Sludge Inventory
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Dry Sludge (pounds)
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Total Inventory
Basin Inventory

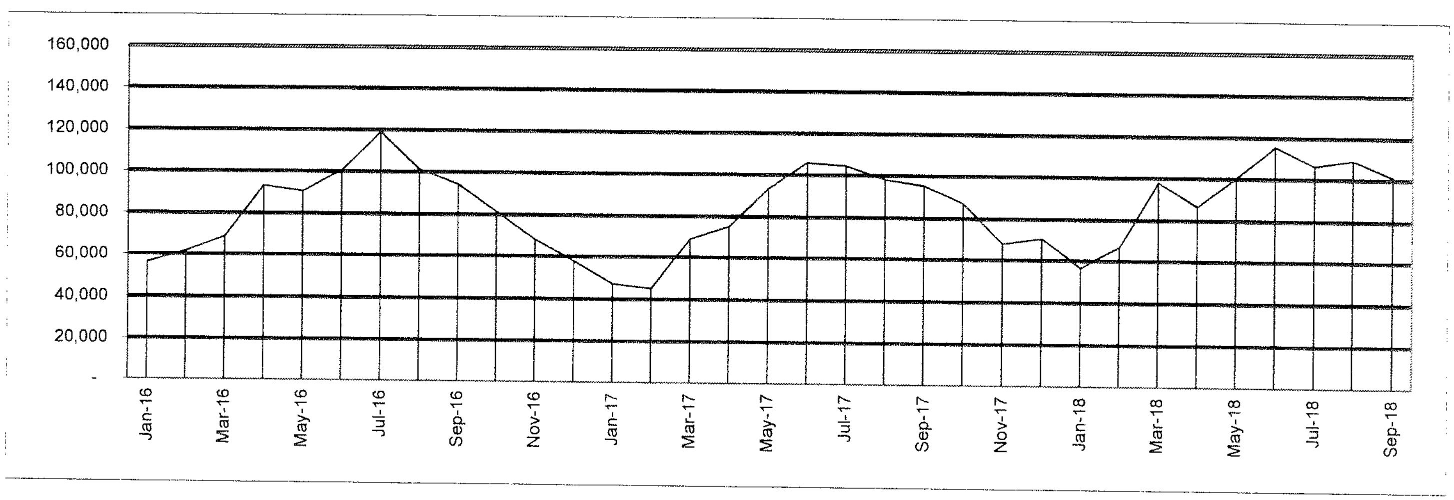

Hauled Sludge Summary
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Dry Pounds
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Monthly Haul Amount
Cumulative Amounts

	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	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

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
Mar-17	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	7.4			23.7	1.980	8.0				5.8		24.3		
2	7.6			23.6	2.430	8.1				6.0		24.5		
3	7.7			24.0	2.467	8.0				4.8		25.1		
4	7.5			24.2	2.067	8.1				5.0	< 20	25.5		
5	7.2			24.7	1.526	8.1				4.6		25.5		
6	7.3			24.6	1.594	8.0			0.06	5.6		25.9		
7	7.1	133	206	25.1	1.563	8.0	1.1	1.0		4.8		25.4	99.2	99.5
8	7.4			23.3	2.346	8.0				4.8		24.1		
9	7.4			22.8	2.479	7.9				5.4		23.1		
10	7.4			22.5	1.693	7.9				5.5	< 20	22.7		
11	7.3			22.7	1.638	7.8				5.5		22.8		
12	7.5			22.4	1.413	7.8				4.6		22.7		
13	7.5			23.1	1.709	8.0			0.05	5.4		23.1		
14	7.4	110	158	23.5	1.616	7.8	0.8	2.1		5.2		23.7	99.3	98.7
15	7.4			24.9	1.816	7.8				5.0		25.1		
16	7.4			24.6	1.795	7.9				4.8		25.2		
17	7.3			24.5	1.750	7.9				5.2	< 20	24.5		
18	7.4			24.1	1.611	7.9				4.7		24.7		
19	7.3			23.8	1.578	8.1				5.0		24.8		
20	7.5			23.6	1.544	8.1			0.03	5.5		25.2		
21	7.4	148	260	23.9	1.625	7.9	1.1	2.0		5.1		25.2	99.3	99.2
22	7.4			24.2	1.937	7.9				5.2		24.6		
23	7.5			24.0	1.700	7.9				5.4		23.9		
24	7.4			23.2	1.290	7.9				5.2	< 20	23.2		
25	7.4			23.1	1.586	7.9				4.9		23.3		
26	7.4			22.1	1.919	7.8				4.8		22.7		
27	7.4			21.3	2.024	7.9			0.06	6.0		21.1		
28	7.4	188	194	21.9	1.594	7.9	1.7	2.9		5.9		20.7	99.1	98.5
29	7.5			20.5	1.749	7.9				6.1		20.5		
30	7.3			21.9	1.781	7.9				5.6		20.8		
Total					53.820									
Avg		145	205	23	1.794		1.2	2.0	0.05	5.2	< 20	23.8	99.2	99.0
Min	7.1	110	158	21	1.290	7.8	0.8	1.0	0.03	4.6	< 20	20.5	99.1	98.5
Max	7.7	188	260	25	2.479	8.1	1.7	2.9	0.06	6.1	< 20	25.9	99.3	99.5

DATE	MONTHLY MONITORING Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	QUARTERLY MONITORING 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	< 5.0	< 1.0	329	309						
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 5.0	< 1.0	329	309						
Avg	< 5.0	< 1.0	329	309						
Min	< 5.0	< 1.0	329	309						
Max	< 5.0	< 1.0	329	309						

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l	** MLSS mg/l	*Settleability *30 min ml	Temp ° C	#2 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l	** MLSS mg/l	*Settleability *30 min ml	Temp ° C	*Weather Conditions Outside * Ambient Temp ° F	*RAIN inches	Time
1		2.0	4,020	650	24	1.3	4,260	700	24	70	0	7:30
2		1.9	4,170	650	24.4	1.9	3,560	540	24.2	71	0	7:30
3		1.5	4,530	780	24.9	1.2	3,760	650	24.8	72	0	7:30
4		1.4	4,490	740	25.2	1.2	4,290	740	25.2	71	0	7:30
5	10,862	1.4	3,940	730	25.2	1.6	4,130	700	25.2	71	0	7:30
6		2.1	4,080	650	25.9	3.0	4,040	650	25.6	73	0	7:30
7		1.8	4,010	710	25.3	1.9	3,700	660	25.1	73	0	7:30
8		1.6	4,170	660	24.1	1.6	3,700	680	24.0	67	2.0	7:30
9		1.3	4,160	650	22.9	1.2	3,310	640	22.9	64	1.1	7:30
10		1.5	4,030	690	22.3	1.9	4,060	720	22.3	59	0	7:30
11		2.6	3,870	650	22.2	1.3	4,170	750	22.4	59	0	7:30
12	11,849	1.6	3,980	640	22.3	1.7	3,670	640	22.3	60	0	7:30
13		1.2	4,310	690	23.4	1.8	3,470	530	23.4	66	0	7:30
14	10,831	1.3	3,720	550	23.5	1.0	4,340	660	23.5	67	0	7:30
15	5,061	1.4	3,010	490	24.8	1.7	3,020	450	24.9	81	0	7:30
16	7,591	1.2	3,650	580	25.0	0.9	3,780	520	24.9	80	0	7:30
17	3,333	1.2	3,900	550	24.4	1.2	4,010	590	24.5	70	0	7:30
18		1.2	3,840	560	24.0	1.0	3,750	600	24.5	68	0	7:30
19	8,424	1.9	3,410	510	24.5	1.4	3,560	600	24.5	70	0	7:30
20		1.6	3,960	580	25.2	1.2	3,980	530	25.1	72	0	7:30
21	8,147	1.5	3,130	600	25.0	1.2	3,750	550	24.9	77	0	7:30
22		1.2	3,870	710	24.0	1.0	3,030	540	23.8	73	0	7:30
23		1.2	3,580	710	23.3	1.0	3,320	600	23.4	66	0	7:30
24		1.8	3,760	720	22.9	1.1	3,730	700	23.1	68	0	7:30
25		1.2	3,630	700	23.1	1.2	3,730	700	23.2	68	0	7:30
26		2.3	4,350	850	22.0	3.0	2,790	530	22.0	55	0.3	7:30
27		3.1	4,540	840	20.2	4.4	3,210	640	20.4	48	0	7:30
28		3.7	3,930	790	20.2	3.3	3,490	740	20.5	50	0	7:30
29		4.5	3,930	840	19.9	3.9	2,870	760	20.3	50	0	7:30
30		4.1	3,920	790	20.6	3	3,340	670	20.9	56	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	John Hornback	(573)365-0455	10/5/2018
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Gary Hutchcraft	(573)365-0455	10/5/2018

*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 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2018	09	01	TO	2018	09	30

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	1.2	mg/L	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 (81010)	REPORTD	*****	*****		*****	*****	99.1	%	Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	*****	Monthly Average Minimum: 85		Monthly	Calculated	
Escherichia coli (E. coli) (51040)	REPORTD	*****	*****		*****	<20	<20	#/100mL	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	7 Day Geometric: 630	30 Day Geometric Mean: 126		Weekly	Grab	
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.479	1.794	Mgal/d	*****	*****	*****		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	*****	*****		0.06	*****	0.05	mg/L	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum: 6.0	*****	Monthly Average: 1.1		Weekly	Grab	
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****		<5.0	*****	<5.0	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum: 15	*****	Monthly Average: 10		Monthly	Grab	
pH (00400)	REPORTD	*****	*****		7.8	*****	8.1	SU	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		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
Gary F Hutchcraft	Gary F Hutchcraft	2018-10-05 10:56:18	
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 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2018	09	01	TO	2018	09	30

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	ug/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum: 9.1	*****	Monthly Average: 3.6		Monthly	Grab	
Suspended Solids, percent removal (81011)	REPORTD	*****	*****		*****	*****	98.5	%	Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	*****	Monthly Average Minimum: 85		Monthly	Calculated	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****		*****	2.9	2.0	mg/L	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:
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
Gary F Hutchcraft	Gary F Hutchcraft	2018-10-05 10:56:18	
TYPED OR PRINTED NAME	SIGNATURE	Date	

PERMITTEE NAME/ADDRESS

State of Missouri
Department of Natural Resources

Dep. of Natural Resources
(REGIONAL OFFICE)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2018	09	01	TO	2018	09	30

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 CaCO3) (00900)	REPORTD	*****	*****		309	*****	309	mg/L	Monthly	Grab	
Stage Type: Instream Monitoring	REQRMNT	*****	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required		Monthly	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
Gary F Hutchcraft	Gary F Hutchcraft	2018-10-05 10:56:18	
TYPED OR PRINTED NAME	SIGNATURE	Date	

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR SEPTEMBER (month) 2018 (year)

DATE	INITIAL	PLANT INFLUENT: FLOW LO (mgd)	FLOW OB (mgd)	FLOW TOTAL (mgd)	BOD-LO (mg/l)	BOD-OB (mg/l)	BOD-TOTAL (mg/l)	TSS-LO (mg/l)	TSS-OB (mg/l)	TSS-TOTAL (mg/l)	AMMONIA as N	pH	TEMP C	ENVIRONMENTAL CONDITIONS: WEATHER	PRECIPITATION (inches)	TEMPERATURE (degrees F)
1	JH/DH	0.268	1.740	2.008								7.43	23.7	PC	0	70
2	GH/DH	0.338	2.062	2.400								7.61	23.6	PC	0	71
3	GH/DH	0.361	2.045	2.406								7.72	24.0	PC	0	72
4	JH	0.283	1.783	2.066								7.52	24.2	C	0	71
5	JH	0.194	1.486	1.680								7.17	24.1	C	0	71
6	JH	0.211	1.407	1.618							35.7	7.32	24.6	PC	0	73
7	JH/DH	0.202	1.406	1.608	208	160	133	238	104	206		7.06	25.1	O	0	73
8	JH	0.294	1.896	2.190								7.40	23.3	R	2.0	67
9	JH	0.359	1.982	2.341								7.37	22.8	O	1.1	64
10	JH	0.220	1.414	1.634								7.38	22.5	C	0	59
11	JH	0.196	1.375	1.571								7.31	22.7	C	0	59
12	JH	0.183	1.322	1.505								7.50	22.4	C	0	60
13	GH	0.181	1.420	1.601							25.4	7.51	23.1	C	0	66
14	JH	0.201	1.420	1.621	153	140	110	148	140	158		7.39	23.5	PC	0	67
15	JH	0.250	1.657	1.907								7.39	24.9	PC	0	81
16	JH	0.256	1.567	1.823								7.39	24.6	PC	0	80
17	GH	0.218	1.598	1.816								7.32	24.4	C	0	70
18	JH	0.218	1.416	1.634								7.38	24.1	C	0	68
19	JH	0.206	1.471	1.677								7.31	23.8	PC	0	70
20	JH	0.207	1.419	1.626							34.0	7.50	23.6	C	0	72
21	JH	0.236	1.515	1.751	173	158	148	228	116	260		7.39	23.9	PC	0	77
22	JH	0.271	1.817	2.088								7.39	24.2	C	0	73
23	JH	0.234	1.481	1.715								7.48	24.0	PC	0	66
24	JH	0.164	1.160	1.324								7.38	23.2	O	0	68
25	JH	0.194	1.382	1.576								7.36	23.1	O	0	68
26	JH	0.221	1.402	1.623								7.35	22.1	PC	0.3	55
27	GH/DH	0.193	1.313	1.506							27.7	7.38	21.3	C	0	48
28	JH/DH	0.202	1.297	1.499	188	188	170	162	158	194		7.36	21.9	C	0	50
29	GH/DH	0.217	1.497	1.714								7.52	21.2	PC	0	50
30	GH/DH	0.235	1.478	1.713								7.28	21.9	PC	0	56
TOTAL		7.013	46.228	53.241	722	646	561	776	518	818	122.8	221.9	701.8		3.4	1995
MAX		0.361	2.062	2.423	208	188	170	238	158	260	35.7	7.72	25.1		2	81
MIN		0.164	1.160	1.324	153	140	110	148	104	158	25.4	7.06	21.2		0	48
AVG		0.234	1.541	1.775	181	162	140	194	130	205	30.7	7.40	23.4		0.11	67

DATE	OXIDATION DITCH NO. 1 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLOMETER (volume)	SVI (ml/gm)	pH	DO (mg/l)	OXIDATION DITCH NO. 2 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLOMETER (volume)	SVI (ml/gm)	pH	DO (mg/l)	CLARIFIER NO 1: DEPTH OF SLUDGE BLANKET (feet)	CLARIFIER NO 2: DEPTH OF SLUDGE BLANKET (feet)	CLARIFIER NO 3: DEPTH OF SLUDGE BLANKET (feet)
1	4,020	650	162	7.70	2.0	4,260	700	164	7.71	1.3	1.0	1.0	0.5
2	4,170	650	156	7.77	1.9	3,560	540	152	7.75	1.9	1.0	1.0	2.0
3	4,530	780	172	7.85	1.5	3,760	650	173	7.81	1.2	2.0	1.0	0.5
4	4,490	740	165	7.81	1.4	4,290	740	172	7.80	1.2	1.0	2.0	1.0
5	3,940	730	185	7.73	1.4	4,130	700	169	7.75	1.6	1.0	1.0	1.0
6	4,080	650	159	7.64	2.1	4,040	650	161	7.67	3.0	0.5	0.5	0.5
7	4,010	710	177	7.69	1.8	3,700	660	178	7.71	1.9	1.0	0.5	1.0
8	4,170	660	158	7.65	1.6	3,700	680	184	7.70	1.6	1.0	1.0	1.0
9	4,160	650	156	7.59	1.3	3,310	640	193	7.62	1.2	1.0	1.0	1.0
10	4,030	690	171	7.55	1.5	4,060	720	177	7.65	1.9	1.0	1.0	1.0
11	3,870	650	168	7.65	2.6	4,170	750	180	7.60	1.3	1.0	1.0	1.0
12	3,980	700	176	7.55	1.6	3,670	640	174	7.60	1.7	0.5	0.5	1.0
13	4,310	690	160	7.52	1.2	3,470	530	153	7.62	1.8	1.0	1.0	0.5
14	3,720	550	148	7.50	1.3	4,340	660	152	7.51	1.0	0.5	0.5	1.0
15	3,010	490	163	7.48	1.4	3,020	450	149	7.53	1.7	1.0	1.0	3.5
16	3,650	580	159	7.52	1.2	3,780	520	136	7.54	0.9	0.5	0.5	0.5
17	3,900	550	141	7.47	1.2	4,010	590	147	7.55	1.2	0.5	1.0	0.5
18	3,840	560	146	7.59	1.2	3,750	600	160	7.65	1.0	0.5	1.0	0.5
19	3,410	510	150	7.69	1.9	3,560	600	167	7.70	1.4	1.0	1.0	0.5
20	3,960	580	146	7.73	1.6	3,980	530	133	7.75	1.2	1.0	1.0	1.0
21	3,130	600	192	7.69	1.5	3,750	550	147	7.65	1.2	0.5	0.5	1.0
22	3,870	710	183	7.64	1.2	3,030	540	178	7.66	1.0	1.0	1.0	1.0
23	3,580	710	198	7.60	1.2	3,320	600	181	7.58	1.0	1.0	1.0	1.0
24	3,760	720	191	7.60	1.8	3,730	700	188	7.61	1.1	1.0	1.0	1.0
25	3,630	700	193	7.62	1.2	3,730	700	188	7.63	1.2	1.0	1.0	1.0
26	4,350	850	195	7.68	2.3	2,790	530	190	7.78	3.0	1.5	1.0	0
27	4,540	840	185	7.17	3.1	3,210	640	199	7.31	4.4	0.5	0.5	0
28	3,930	790	201	7.16	3.7	3,490	740	212	7.18	3.3	1.0	1.0	0
29	3,930	840	214	7.17	4.5	2,870	760	265	7.18	3.9	0.5	0.5	0
30	3,920	790	202	7.7	4.1	3,340	670	201	7.61	3	0.5	1.0	0
TOTAL	117,890	20,320	5,172	228	56.3	109,820	18,980	5,223	228	53.1	26.5	27	24.5
MAX	4,540	850	214	7.85	4.5	4,340	760	265	7.81	4.4	2.0	2.0	3.5
MIN	3,010	490	141	7.16	1.2	2,790	450	133	7.18	0.9	0.5	0.5	0
AVG	3,930	677	172	7.59	1.9	3,661	633	174	7.61	1.8	0.9	0.9	0.8

DATE	PLANT EFFLUENT, SM1 UPSTREAM & SM2 DOWNSTREAM: FLOW EFF (mgd)	Ph	BOD (mg/l)	TOTAL SUSPENDED SOLIDS (mg/l)	Cl (mg/l)	AMMONIA as N	TEMP C	E Coli	OIL & GREASE (Monthly)	SELENIUM (Monthly)	SM1 HARDNESS (Monthly)	SM2 HARDNESS (Monthly)	T.R. PHOSPHORUS (Quarterly)	SM1 T.R. PHOSPHORUS (Quarterly)	TOTAL NITROGEN (Quarterly)	SM1 TOTAL NITROGEN (Quarterly)	T.R. CADMIUM (Quarterly)	T.R. COPPER (Quarterly)	RETURN SLUDGE: FLOW (gallons)	SUSPENDED SOLIDS (mg/l)	WASTE SLUDGE TO STORAGE: FLOW (gallons)	WASTED DRY LBS
1	1.980	7.95			5.8		24.3												1.215	5,390		
2	2.43	8.05			6.0		24.5												1.547	4,300		
3	2.467	8.03			4.8		25.1												1.074	6,805		
4	2.067	8.06			5.0		25.5	<20	<5.0	<1.0	329	309							0.993	6,840	45,000	2,567
5	1.526	8.06			4.6		25.5												0.237	6,265		
6	1.594	8.01			5.6	0.06	25.9												0.999	7,950		
7	1.563	8.01	1.1	1.0	4.8		25.4												0.988	4,695		
8	2.346	7.96			4.8		24.1												1.534	7,775		
9	2.479	7.87			5.4		23.1												1.078	6,295		
10	1.693	7.88			5.5		22.7	<20											1.148	7,070		
11	1.638	7.83			5.5		22.8												1.356	8,925	45,000	3,350
12	1.413	7.81			4.6		22.7												1.187	6,245		
13	1.709	7.95			5.4	0.05	23.1												1.194	9,265		
14	1.616	7.81	0.8	2.1	5.2		23.7												1.359	6,990	45,000	2,623
15	1.816	7.77			5.0		25.1												1.036	15,995		
16	1.795	7.86			4.8		25.2												1.579	9,505		
17	1.750	7.94			5.2		24.5	<20											1.509	9,195		
18	1.611	7.86			4.7		24.7												1.260	9,765	45,000	3,665
19	1.578	8.05			5.0		24.8												0.741	8,185		
20	1.544	8.06			5.5	0.03	25.2												1.236	4,375		
21	1.625	7.87	1.1	2.0	5.1		25.2												1.439	4,945	45,000	1,856
22	1.937	7.92			5.2		24.6												1.689	8,760		
23	1.700	7.89			5.4		23.9												1.306	7,800		
24	1.290	7.85			5.2		23.2	<20											1.095	6,705		
25	1.586	7.89			4.9		23.3												1.084	6,870	45,000	2,578
26	1.919	7.84			4.8		22.7												1.304	5,010		
27	2.024	7.91			6.0	0.06	21.1												1.428	6,705		
28	1.594	7.85	1.7	2.9	5.9		20.7												1.127	4,690	45,000	1,760
29	1.749	7.86			6.1		20.5												1.301	4,335		
30	1.781	7.90			5.6		21.9												1.348	4,145		
TOTAL	53.82	238	4.7	8	157	0.20	715	<20	<5.0	<1.0	329	309	0	0	0	0	0	0	36.391	211,795	315,000	18,399
MAX	2.479	8.06	1.7	2.9	6.1	0.06	25.9	<20	<5.0	<1.0	329	309	0	0	0	0	0	0	1.689	15,995	45,000	3,665
MIN	1.290	7.77	0.8	1	4.6	0.03	20.5	<20	<5.0	<1.0	329	309	0	0	0	0	0	0	0.237	4,145	45,000	1,760
AVG	1.794	7.92	1.2	2.0	5.2	0.05	23.8	<20	<5.0	<1.0	329	309	0.0	0.0	0.0	0.0	0.0	0.0	1.213	7,060	45,000	2,628

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

Prepared by GH, JH, DH

Approved by GH

Date 10/4/2018

Semi - Annual I & I Report
Wastewater Treatment Summary for the City of Osage Beach
(Million Gallons)

2018

	April	May	June	July	August	September
O.B. Total MG	34.339	47.620	51.062	60.484	52.916	46.228
O.B. Peak MG	1.450	2.409	1.969	2.697	2.461	2.062
Avg. Daily MG	1.145	1.536	1.702	1.951	1.707	1.541
% Diff.	27%	57%	16%	38%	44%	34%
Rainfall Inches	1.9	5.4	3.2	2.7	6.9	3.4

Semi - Annual I & I Report
Wastewater Treatment Summary for the City of Osage Beach
(Million Gallons)

2018

	April	May	June	July	August	September
O.B. Total MG	34.339	47.620	51.062	60.484	52.916	46.228
O.B. Peak MG	1.450	2.409	1.969	2.697	2.461	2.062
Avg. Daily MG	1.145	1.536	1.702	1.951	1.707	1.541
% Diff.	27%	57%	16%	38%	44%	34%
Rainfall Inches	1.9	5.4	3.2	2.7	6.9	3.4

CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2019

TIER 1

				Notes
1. Annual fee for Mission autodialer (software fee)		(estimated)	$500	Annual Fee
2. Regular Plant & Vehicle Maintenance	$8,000 & $3,000	(estimated)	$11,000	Annual Maint.
3. UV Bulbs, Quartz Sleeves and Spare Parts		(estimated)	$8,000	Annual Maint.
4. Parking Lot Sealing and Crack Filling.		(estimated)	$2,000	New
5. Replacement BOD & Ammonia probes		(estimated)	$2,000	New
6. Expanded Effluent Testing for Permit Renewel for next renewel		(estimated)	$1,500	New/last one for this permit
7. Replacement grit concetrator, volute & cart for the pista grit system		(estimated)	$15,000	New
8. Replacement LED parking lot/area lighting		(estimated)	$10,000	New - Carryover
9. Replacement impellers for RAS pumps, a couple per year		(estimated)	$7,500	New - Carryover
10. Rebuild Ducking Skimmer Arm & Arm Supports on Clarifier #2		(estimated)	$5,000	New - Carryover
11. Replace wooden doors w/ fiberglass doors, a couple per year		(estimated)	$2,000	New - Carryover
12. Rock for the Road		(estimated)	$2,000	Annual Maint.
13. Knapheide Mini Pro Tailgate Spreader for Ford pickup		(estimated)	$2,000	New
	Estimated Tier 1 Total		$68,500	

TIER 2

1. Replace electrical panel & components and repair pump in potable well house.	(estimated)	$10,000	New
2. Replace electrical panel and components in RAS Basement	(estimated)	$40,000	New
3. Take #2 Aeration Basin down, removal of grit by Contractor and repair valves and required lab testing on grit.	(estimated)	$100,000	New
Estimated Tier 2 Total		$150,000	

Informational TIER 3

1. Option 1 - New replacement highway style sludge truck w/ 3500 gallon tank	(estimated)	$165,000	New - Carryover
Option 2 - New 6 wheel drive sludge truck w/ flotation type tires w/ 3000 gallon tank	(estimated)	$180,000	New - Carryover
Estimated Tier 3 Total		$165,000 to $180,000	

LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2019 BUDGET WORKSHEET
REVENUE

	Operating Fund	2016 Actual	2017 Actual	2018 Budget	2018 9/30/2018	2018 Oct/Nov/Dec	2018 Total Est.	2019 Proposed	2019 Proposed
3020	Osage Beach	475,802.57	478,614.41	473,000.00	361,461.85	117,038.15	478,500.00	478,500.00	
3010	Lake Ozark	74,197.42	71,385.58	77,000.00	51,083.13	20,416.87	71,500.00	71,500.00	
3100	Interest	368.52	781.57	200.00	1,048.21	200.00	1,248.21	400.00	
3060	Waste Haulers'	33,460.00	30,500.00	35,000.00	20,100.00	9,900.00	30,000.00	30,000.00	
	Total Operating	583,828.51	581,281.56	585,200.00	433,693.19	147,555.02	581,248.21	580,400.00	
	Equipment Replace.								
	Transfers-Opera	41,606.04	41,604.17	41,606.04	31,203.17	10,401.51	41,604.68	41,606.04	
	Interest Revenu	2,847.67	2,319.07	1,500.00	3,269.41	400.00	3,669.41	3,000.00	
	Total E.R. Reve	44,453.71	43,923.24	43,106.04	34,472.58	10,801.51	45,274.09	44,606.04	

LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2019 BUDGET WORKSHEET
EXPENDITURES

		2016 Actual	2017 Actual	2018 Budget	2018 9/30/2018	2018 Oct/Nov/Dec	2018 Total Est.	2019 Proposed	2019 Proposed
4000	Equip. Replace Fund	41,606.04	41,604.17	41,604.00	31,203.17	10,401.00	41,604.17	41,604.00	
4020	Equip & Bldg. Repair/Main.	18,735.50	129,769.11	115,000.00	6,578.27	104,000.00	110,578.27	122,000.00	*
4140	Insurance	16,977.00	17,144.00	17,600.00	18,475.25	-	18,475.25	19,030.25	
4150	Vehicle Repair/Main.	951.93	12,047.61	3,000.00	3,472.23	1,500.00	4,972.23	3,000.00	***
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	7,780.00	220.00	8,000.00	8,000.00	
4170	Contract Management	303,638.88	311,229.84	320,566.84	239,257.98	79,752.66	319,010.64	328,580.64	
4175	Electric	72,637.17	69,261.90	75,000.00	64,800.80	14,300.00	79,100.80	80,000.00	
4190	Bank Charges	0.00	24.35	0.00	11.00	10.00	21.00	60.00	
4200	Audit	2,158.50	2,200.00	2,300.00	2,300.00	-	2,300.00	2,400.00	
4220	Professional Services	9,207.94	1,200.00	1,200.00	-	-	-	-	
4240	Equipment Purch-New	0.00	0.00	150,000.00	-	150,000.00	150,000.00	2,000.00	
	Generator				-	-	-	-	
	Total Operating Fund	473,912.96	592,500.98	734,270.84	373,878.70	360,183.66	734,062.36	606,674.89	
	E/R Expenses per Alliance	7,980.42	7,980.42	67,500.00	29,462.00	12,620.00	42,082.00	91,500.00	**
	Disinfectin System	-	-	-	-	-	-	-	
	Total E.R. Fund	7,980.42	7,980.42	67,500.00	29,462.00	12,620.00	42,082.00	91,500.00	
	TOTAL EXPENSES	**481,893.38**	**600,481.40**	**801,770.84**	**403,340.70**	**372,803.66**	**776,144.36**	**698,174.89**	

****Equipment & Replacement**

Rebuild Ducking Skimmer /	5,000.00	Tier 1
Replace BOD & Ammonia p	2,000.00	Tier 1
Replace grit concetrator, vc	15,000.00	Tier 1
Replace wooden doors	2,000.00	Tier 1
Replace impellers for RAS		7,500.00	Tier 1
Replace LED parking lot lig	10,000.00	Tier 1
Replace electric panel & pu	10,000.00	Tier 2
Replace electric panel in R/	40,000.00	Tier 2
	91,500.00	

*****Vehicle Repair/Maint**

Vehicle Maintenance	3,000.00	Tier 1
	3,000.00	

***Maintenance & Repair**

Auto Dialer Yrly Software Fee	500.00	Tier 1
Effluent Testing for Permit Renewal	1,500.00	Tier 1
Normal Maintenance	8,000.00	Tier 1
UV Spare Parts	8,000.00	Tier 1
Road and parking lot main	4,000.00	Tier 1
#2 Aeration Basin repair vlves lab testing	100,000.00	Tier 2
	122,000.00	

ESTIMATED FUND BALANCES

OPERATING FUND

BALANCE 1/1/18	**277,898.00**
TOTAL ESTIMATED REVENUE	581,248.21
TOTAL ESTIMATED EXPENSES/TRANSFERS	(734,062.36)
BALANCE 12/31/18	**125,083.85**
TOTAL ESTIMATED REVENUE	580,400.00
TOTAL ESTIMATED EXPENSES/TRANSFERS	(606,674.89)
BALANCE 12/31/19	**98,808.96**

EQUIPMENT REPLACEMENT FUND

BALANCE 1/1/18	**523,626.00**
TOTAL ESTIMATED REVENUE/TRANSFERS	45,274.09
TOTAL ESTIMATED EXPENSES	(42,082.00)
BALANCE 12/31/18	**526,818.09**
TOTAL ESTIMATED REVENUE/TRANSFERS	44,606.04
TOTAL ESTIMATED EXPENSES	(91,500.00)
BALANCE 12/31/19	**479,924.13**