

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JANUARY 15, 2019 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Johnnie Franzekos
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, Greg Massey
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: November 20, 2018

3-4

4. REPORTS

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Income & Expense Summary	35-36
Check Registers & Bank Statements	37-47

Alliance Report of Operations	49-82
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Approval of Flow Charts November 2018
December 2018

5. OLD BUSINESS

A. Discussion and possible action for approval of contract with Martin Energy for the generator project.

B. Board Representative update

6. NEW BUSINESS

A. Discussion and possible action regarding approval of the Inventory list

B. Discussion and possible action regarding the Emergency Response Plan

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE FEBRUARY 19, 2019 4:00 PM @ LAKE OZARK CITY HALL

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

CALL TO ORDER:

Mayor Johnnie Franzekos called the meeting to order at 4:00pm on Tuesday, November 20, 2018 at Lake Ozark City Hall

ROLL CALL:

Mayor, Lake Ozark, Johnnie Franzekos - 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:

Mayor Olivarri motion to approve the meeting minutes of October 16, 2018. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

REPORTS:

Resident Member Gary Hamner motion to approve the October Bills List. The motion was seconded by City Administrator Woods. The motion passed unanimously.

The October 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 October was 1.573 mgd. We had 7.5 inches of precipitation measured at the WWTP in October.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.4 mg/l and TSS of 2.1 mg/l respectively for October, which represents a 99.0% or better removal.

The MLSS average for both aeration basins was 3,727 mg/l in October. The total dry weight sludge inventory for October totaled 189,409 pounds. There were 38 tanker loads of biosolids or 140,600 gallons land applied in October. We also received 21 tanker loads or 59,500 gallons of septage for the month of October.

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 action regarding the generator project. Public Works Director Michalik stated they had another meeting with Martin Energy and discussed a preliminary contract. Martin made a proposal for 10% down approximately \$14,000- \$15,000 to get the project started. On site work will take about 2 weeks to finish. If the board is ok with the 10% down that they will come back to the board with a contract at next meeting.
- B. Report of action regarding the 2019 Budget & Capital Improvement Plan. A motion was made by Alderman Murawski to approve with the amended amounts as discussed and seconded by City Administrator Woods, motion passed unanimously.

NEW BUSINESS:

- A. Report of action on appointing Board Representatives and clarification of authority. City Administrator Van Dee suggested both Public Work Directors Edelman and Michalik oversee operational decisions on expenditures up to \$2500. A motion was made by City Administrator Woods designating Representatives for Administration of the contract and seconded by Mayor Olivarri. A voice vote was taken and all in attendance said yes. Motion passed unanimously
- B. Report of action regarding the final approval for the alliance contract. With a lot of discussions there will be some proposed changes to the contract. A motion was made by Public Works Director Edelman to approve with the amendments as discussed and seconded by Public Works Director Michalik, motion passed unanimously
- C. Report of action authorization to pay December bills. A motion was made by City Administrator Van Dee to pay the bills and seconded by Public Works Director Michalik, motion passed unanimously
- D. Report of action regarding the bids to repair the Flygt pump. A motion was made by Public Works Director Michalik to go with the lowest bid from JCI industries and seconded by City Administrator Woods, motion passed unanimously

ADJOURNMENT:

With no further business to discuss, a motion to adjourn was made by Alderman Murawski. His motion was seconded by Public Works Director Michalik and was passed unanimously. The meeting adjourned at 5:00 pm.

Approved On January 15, 2019

Mayor, Johnnie Franzekos

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
JANUARY 15, 2019

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	35,023.64
OPERATING FUND BILLS TO BE PAID:	\$	28,920.25
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	2,620.00
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	364.99

TOTAL \$ 66,928.88

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4185	3699	Ameren MO	November Service	\$ 3,731.22
4000	3700	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4170	3701	Alliance Water Resources, Inc.	Management Fee	\$ 26,584.22
4020	3702	Alliance Water Resources, Inc.	maintenance and repair misc.	\$ 825.96
4150	3702	Alliance Water Resources, Inc.	vehicle maintenance	\$ 415.24
				\$ -
				\$ -
			TOTAL	\$ 35,023.64

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4185	3703	Ameren MO	December Service	\$ -
4000	3704	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4170	3705	Alliance Water Resources, Inc.	Management Fee	\$ 24,996.00
4020	3706	Alliance Water Resources, Inc.	Trash Serv and Sand Blast	\$ 217.08
4150	3706	Alliance Water Resources, Inc.	GMC Serv and Lube	\$ 240.17
				\$ -
				\$ -
				\$ -
			TOTAL	\$ 28,920.25

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
Equip/Replace	1027	Choat Const. Co. LLC	3 new doors	\$ 2,620.00
				\$ -
			TOTAL	\$ 2,620.00

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
Equip/Replace	1028	Alliance Water Resources, Inc.	Replace Heaters	\$ 364.99
				\$ -
			TOTAL	\$ 364.99



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

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

Current Detail for Statement 12/07/2018

Total Electric Charges \$3,652.43

Total Amount Due \$3,652.43



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

AMOUNT DUE \$3,652.43

Due Date 01/02/2019

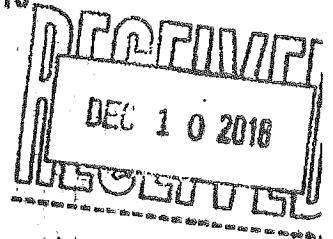
Amount After Due Date \$3,707.22

Previous Statement \$5,202.53

Total Payments \$5,202.53

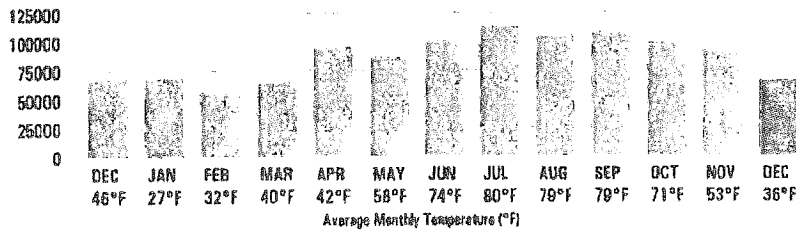
Payment Received. Thank You.

Your electric rate decreased by approximately 8%. Your savings are noted as the Federal Tax Rate Reduction.



Electric Usage History

Electric Usage in Kilo-watt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 13.6% more than last year.

2017 926,240 kWh

2018 1,052,480 kWh

Usage from Jan-Dec for 2017 & 2018

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.

Page 1 of 4



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Please return this portion with your payment

Amount Due	Due Date
\$3,652.43	January 02, 2019

Delinquent Amount After Due Date	Account Number
\$3,707.22	4580005832

Amount Enclosed \$

>000331 6045557 0003 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

60600000 0045800058302 000003652430 000003652430



AmerenMissouri.com
 1.877.426.3736
 PO Box 68068 Chicago, IL 60680-1068
 Ameren payment processing center

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Electric Service Details Service from 11/04/2010 - 12/05/2018 (31 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11873321	11/04 - 12/05	31	Total kWh	Actual	50679.0000	50268.0000	410.0000	180.0000	65800.0000
11873321	11/04 - 12/05	31	Peak kW	Actual	0.0620	0.0000	0.0620	160.0000	105.9000

Usage Summary

Total kWh	65800.0000	Peak kW	105.9000
Total Billing Demand	105.9000	October Winter Base kW	153.1000
Winter Base Demand	105.9000	Base kWh Ratio	1.0000
Base kWh (HUD)	65800.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	\$ 0.03890000	\$0.00
Demand Charge	105.90	kW	@	\$ 2.00000000	\$211.80
Base Energy Charge / Hours Used	15,895.00	kWh	@	\$ 0.06650000	\$1,056.36
Base Energy Charge / Hours Used	21,180.00	kWh	@	\$ 0.04940000	\$1,046.28
Base Energy Charge / Hours Used	28,535.00	kWh	@	\$ 0.03890000	\$1,110.01
Customer Charge					\$95.07
Fuel Adjustment Charge	65,800.00	kWh	@	\$ 0.00196000	\$128.58
Energy Efficiency Program Charge	65,800.00	kWh	@	\$ 0.00020000	\$13.12
Energy Efficiency Investment Charge	65,800.00	kWh	@	\$ 0.00448600	\$294.28
Federal Tax Rate Reduction	65,800.00	kWh	@	\$-0.00462000	\$-303.07
Total Service Amount					\$3,652.43
Total Electric Charges					\$3,852.43

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

Page 2 of 4

Address Changes or Corrections

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

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E-CHECK



PHONE
866.266.3729



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FIND A PAY STATION AT
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CREDIT CARD



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

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Account Number 5580005820
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65049

Current Detail for Statement 12/07/2018
 Total Electric Charges \$78.79
 Total Amount Due \$78.79



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

AMOUNT DUE \$78.79

Due Date 01/02/2019

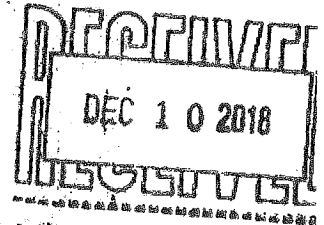
Amount After Due Date \$78.87

Previous Statement \$114.09

Total Payments \$114.09

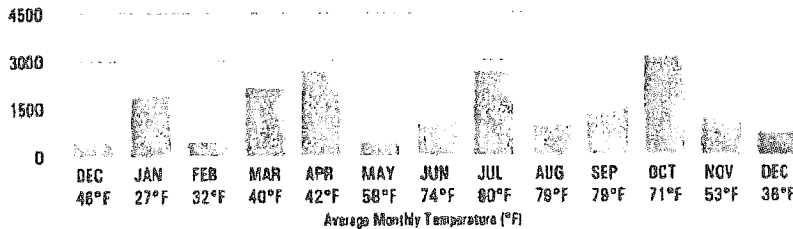
Payment Received, Thank You

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



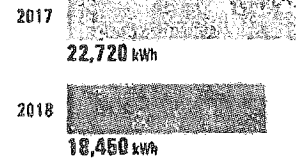
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 18.8% less than last year.



Usage from Jan-Dec for 2017 & 2018

13073 00143 6045557 000272 000543 00010002

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.

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Please return this part on with your payment.

Amount Due	Due Date
\$78.78	January 02, 2019
Delinquent Amount After Due Date	Account Number
\$78.87	5580005820

Amount Enclosed \$

>000143 6045557 0003 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

70633000 0055800055200 000000078790 000000078790



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Electric Service Details

Service from 11/04/2018 - 12/05/2018 (31 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
9804127E	11/04 - 12/05	31	Total kWh	Actual	18077.0000	18008.0000	88.0000	10.0000	680.0000
9804127E	11/04 - 12/05	31	Peak kW	Actual	4.2620	0.0000	4.2620	0.0000	42.6200

Usage Summary

Total kWh	680.0000	Winter Base kWh	1000.0000
Current Base kWh	680.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Base Energy Charge	680.00	kWh	@	\$ 0.08360000	\$56.85
Seasonal Energy Charge	0.00	kWh	@	\$ 0.04820000	\$0.00
Customer Charge					\$21.43
Fuel Adjustment Charge	680.00	kWh	@	\$ 0.00186000	\$1.33
Energy Efficiency Program Charge	680.00	kWh	@	\$ 0.00010000	\$0.07
Energy Efficiency Investment Charge	680.00	kWh	@	\$ 0.00449900	\$3.06
Federal Tax Rate Reduction	680.00	kWh	@	\$ -0.00581000	\$-3.95
Total Service Amount					\$76.79
Total Electric Charges					\$76.79

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
November 28, 2018	\$114.08

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

Page 2 of 4

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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****SOLD TO:****Lake Ozark/Osage Beach Joint Utility Board****c/o Karri Bell****City of Osage Beach****1000 City Parkway****Osage Beach, MO 65065****INVOICE****Invoice No: 8127****Invoice Date: 1-Dec-18****Customer No: 20220****Terms: 30 days**

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Dec-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) 674-8080 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 65065****INVOICE****Invoice No: 8128****Invoice Date: 1-Dec-18****Customer No: 20220****Terms: 30 days**

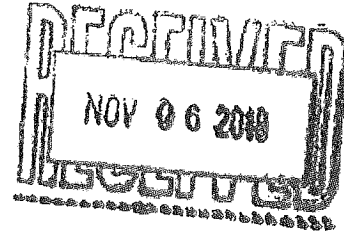
REFERENCE	DESCRIPTION	AMOUNT
	Bledsoe Automotive Service - Invoice # 14599 - 50% 4150	\$145.60
	Bledsoe Automotive Service - Invoice # 14597 - 50% 4190	\$138.50
	Roemer's Heavy Equipment - Invoice # 19471 - 50% 4020 4150	\$131.24
	Controlled Heating & Cooling Co - Invoice # 28053 - 50% 4020	\$127.50
	OVIVO - Invoice # 8474988 - 50% 4020	\$197.61
	Jani-King - Invoice # CLM12180094 - 50% 4020	\$97.50
	USA Bluebook - Invoice # 736456 - 50% 4020	\$403.35
TOTAL DUE		\$1,241.20

Bledsoe Automotive Service
 322 S BUSINESS RT 5
 CAMDENTON MO.
 65020

Statement

Date
11/1/2018

To:
ALLIANCE WATER RESOURCES PO BOX 1985 LAKE OZARK, MO 65049



		Amount Due	Amount Enc.		
		\$568.00			
Date	Transaction	Amount	Balance		
10/18/2018	INV #14599. Due 10/18/2018. Orig. Amount \$291.00. --- TRUCK CALL OUT FEE \$125.00 --- MILEAGE \$91.00 --- LABOR \$75.00 --- Tax: MO SALES TAX @ 7.475% = 0.00	291.00	291.00		
10/18/2018	INV #14597. Due 10/18/2018. Orig. Amount \$277.00. --- TRUCK CALL OUT FEE \$125.00 --- MILEAGE \$77.00 --- LABOR \$75.00 --- Tax: MO SALES TAX @ 7.475% = 0.00	277.00	568.00		
GL Acct#: <u>4702-20 \$284.00</u> <u>1220-20 \$284.00</u> Signature: <u><i>Rory Hultquist</i></u> Date: <u>11/6/18</u>			4150		
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	Amount Due
0.00	568.00	0.00	0.00	0.00	\$568.00

1
2
3
4
5

P.O. Box 191
Osage Beach, Missouri 65065
(573) 348-3733

QTY	PART NO. AND DESCRIPTION	PRICE
1	0R275491x Governor	37 48
***	Due to relocating starting Nov 14, 2018 All Bills Due at time of service. Thank you!	
	TOTAL PARTS	37 48
ACCESSORIES		
GL Acct#: 6702-20734.14		1220.20 731.24
Signature: [Signature]		
Date: 11/5/18		
TOTAL ACCESSORIES		

NAME	Alliance Water Resources		CUSTOMER SERVICE NO.	19471	DATE	10-29-18
ADDRESS	PO Box 1985		ORDER WRITTEN BY		PROMISED	
CITY, STATE, ZIP	Lake Ozark Mo 65049				A.M.	
HOME PHONE	216-8378		BUSINESS PHONE		P.M.	
YEAR, MAKE AND MODEL	94 white volvo Gmc.				ODOMETER IN	
SERIAL NUMBER					ODOMETER OUT	
	MOTOR NUMBER					
	TERMS					

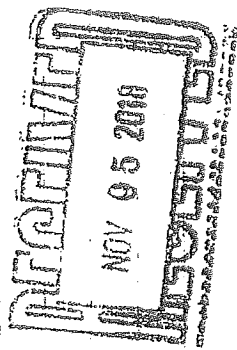
AMOUNT

DESCRIPTION OF WORK

☐ LIBE ☐ CHANGE OIL ☐ OIL FILTER ☐ TUNE-UP ☐ TRANS. ☐ DIFF.

Service CALL

Removed and replaced Governor.
Tasted. Will send!



I hereby authorize the above repair work to be done along with the necessary materials. You and your employees may operate above vehicle for purposes of testing, inspection, or delivery at my risk. An express mechanics lien acknowledged on above vehicle to secure the amount of repairs thereto. It is also understood that you will not be held responsible for loss or damage to cars or articles left in cars in case of fire, theft or any other cause beyond your control.

SAVE OLD PARTS? ☐ YES ☐ NO

SIGNATURE

4150

LITERS/GALS. OF GAS @
LITERS/QTs. OF OIL @
kg/LBS OF GREASE @

TOTAL LABOR 225 00
TOTAL PARTS 37 48
ACCESSORIES
GAS, OIL & GREASE
SUBLET REPAIRS
EPA/WASTE DISPOSAL

TAX 2 90
TOTAL 265 38
THANK YOU!

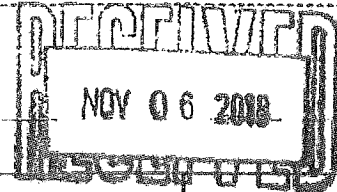
CONTROLLED HEATING & COOLING CO.
 883 E. HIGHWAY 42
 SUITE A
 OSAGE BEACH, MO 65065
 573-348-1535

Date	Invoice
11/5/2018	28053

Bill To
Alliance Water Resources P.O. Box 1985 Lake Ozark, MO 65049

Celebrating 35 Years
 1983 - 2018

NOV 19 2018



P.O. No.	Terms	Project
	Due on receipt	

Description	Qty	Rate	Amount
Labor/hour		125.00	125.00
Freon R-22/LB.	2	65.00	130.00
20 x 25 x 4" pleated filter	1	0.00	0.00
8-31-18: UNIT FROZE UP: CHECK ON SYSTEM, REPLACE FILTER (20X25X4). TAKE TD 14' CHECK OPERATION PRESSURES, READING 45 LOW SIDE 150 HIGH SIDE. ADDED 2 LBS R22 DID NOT MOVE PRSSURE 50 LOW 158 HIGH TD ROSE FROM 14' TO 16' 74 RETURN 58 SUPPLY. BLOCKED OUTDOOR COIL TO SIMULATE LOAD ON SYSTEM. OPERATING PRESSURES ROSE TO 70 LOW 230 HIGH. CHECKED INDOOR COL FOR LEAKS DID NOT HIT ON ANTHING . COPPER COIL IS RUSTY.			
GL Acct#:	6700-20	\$127.50	1220-20 \$127.50 4020
Signature:	<i>[Signature]</i>		
Date:	11/6/18		
Thank you for your business.	Total		\$255.00



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

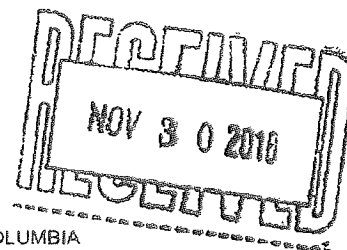
Invoice	
Date 12/01/2018	Number CLM12180094
Due Date 12/31/2018	Cust # 022031
Invoice Amount \$ 195.00	Amount Remitted

Sold To:
 ALLIANCE WATER

For:
 Same as Sold To

3 ANDERSON RD

LAKE OZARK MO 65049



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

For:
 Same as Sold To

MO 65049

Invoice No	Date	Cust No	Sismn No	PO Number	Franchisee	Due Date
CLM12180094	12/01/2018	022031			RJ ENTERPRISES, LLC	12/31/2018
Quantity	Description				Unit Price	Extended Price
1	MONTHLY CONTRACT BILLING AMOUNT FOR DECEMBER				195.00	195.00
				GL Acct#: <u>6700-20 97.50 1220-20 \$97.50</u>		4020
				Signature: <u>[Signature]</u>		
				Date: <u>11/30/18</u>		
					Amount of Sale	\$ 195.00
					Sales Tax	\$ 0.00
					Total	\$ 195.00
Make All Checks Payable To: MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA						



Worldwide Experts in Water Treatment
 Ovivo USA, LLC
 4246 Riverboat Road, Suite 300
 Salt Lake City, UT 84123
 Phone: (801)931-3000
 Fax: (801)931-3080

REMIT TO VIA CHECK

Ovivo USA, LLC
 P.O. Box 673076
 Detroit, MI 48267-3076

REMIT TO VIA WIRE

Comerica Bank
 Comerica Bank Center
 411 West Lafayette
 Detroit, MI 48226
 Account #: 1851855104
 Routing #: 072000096
 SWIFT #: MNBDUS33
 Telex: 3772134 MNB INTL DET

INVOICE NO

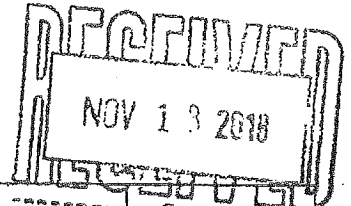
8474988

Page: 1 of 1

Date: 11/06/2018

B 102912
 I Alliance Water Resources, Inc.
 L #3 Anderson Road
 L P.O. Box 1985
 Lake Ozark MO 65049
 T USA
 O

S 0
 H Alliance Water Resources, Inc.
 I #3 Anderson Road
 P P.O. Box 1985
 Lake Ozark MO 65049
 T USA
 O



Order		Customer PO		Ship Via		Terms		Currency
SSW0010285		verbal Gary		Freight Allowed		Net 30 days		USD
Line	Item/Description	Qty Ordered	Qty Shipped	Qty Back Ord	U/M	Unit Price	Extended Price	

1	23276C332X2	3.00	3.00	0.00	SET	131.7400	395.22
	INSERTS, COUPLING, N-EUPEX 160, (?) SET						
	Date Shipped: 10/31/2018						

Please submit purchase order to:

Your point of contact is:

Mark Williams
 Product Manager
 Aeration Process Group
 Email: mark.williams@ovivowater.com
 Phone: 801-931-3037
 Fax: 801-931-3020

GL Acct#: 7100-20 \$197.61 1220-20 \$197.61
 Signature: [Signature] 4020
 Date: 11/13/18

ORIGINAL

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 8, 7, & 12 OF THE FAIR LABOR STANDARDS ACT AS AMENDED AND REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF. MATERIAL RETURN POLICY: WRITTEN AUTHORIZATION IS REQUIRED FOR ALL RETURNED MATERIAL. MATERIAL MUST BE RETURNED F.O.B. TO OUR PLANT OF ORIGIN.

Sales Amount	395.22
Misc Charges	0.00
Freight	0.00
Sales Tax	0.00
	0.00
Prepaid Amount	0.00
Total	395.22

USABlueBook

Get the Best Treatment™

Remit To:
P.O. Box 9004
Gurnee, IL 60031-9004
TEL: (847) 689-3000
FAX: (847) 689-3001
TOLL FREE: 1-800-493-8876
F.E.I.N.: 52-2418552

INVOICE

INVOICE NO.	PAGE NO.
736456	1 of 1
CUSTOMER NO.	DATE
304523	11/13/18

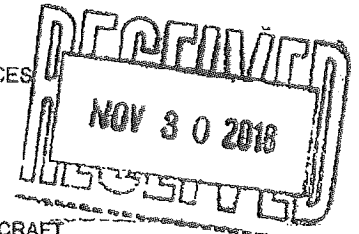
View online at: <http://usabluebook.billtrust.com>
Web Enrollment Token: RMM ZRV XZK

BILL TO: 304523
1487 1 MB 0.424 E0202X 10334 D4236258D22 S2 P6801752 0001:0001

SHIP TO: 4

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

ALLIANCE WATER RESOURCES
*****DELIVER BY 4 PM*****
3 ANDERSON RD
LAKE OZARK MO 65049
USA



Ordered by: 0009 GARY HUTCHCRAFT

Attention: 0009 GARY HUTCHCRAFT

CUSTOMER P.O. NO.	SHIP DATE	SLIP	TERMS	TAX CODE	SALES ORDER NO.	W/H	FREIGHT	SHIP VIA
MO-0103241	11/12/18	GIF	1%/10 NET 30	MO	302929	01	PREPAID	UPS
USA STOCK NO.	DESCRIPTION	ORDERED	SHIPPED	BACKORDER	U/M	PRICE	PER	EXTENSION
32891	Hach Ammonia Combination Electrode 5192700 SDS VISIT WWW.USABBLUEBOOK.COM	1	1	0	EA	786.24	EA	786.24
LAB MAINTENANCE GL Acct#: <u>6705-20 \$447.55</u> <u>1220-20 \$403.35</u> <u>4020</u> Signature: <u>[Signature]</u> Date: <u>11/30/18</u>								

THANK YOU for your business!
1.5% MONTHLY FINANCE CHARGE
ON AMOUNTS 30 DAYS PAST DUE
Discounts Apply to Merchandise Only

MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
786.24	0.00	0.00	44.21	20.45	850.90

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Insure Proper Credit to Your Account

USABlueBook

Get the Best Treatment™

****IMPORTANT****

Please include this customer #
on the face of your remittance check.

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
736456	304523	11/13/18	850.90

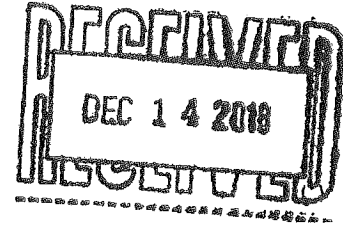
ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK MO 65049-1985

REMITTANCE ADDRESS

USABlueBook
P.O. Box 9004
Gurnee, IL 60031-9004

INVOICE

Jeffries Construction LLC DBA Cheat Construction Company LLC
PO Box 249
Iberia, Mo 65486
Cell (573)280-1275
cheatconstruction@gmail.com



BILL TO

Joint Sewer Board
PO Box 1985
Lake Ozark, Mo. 65049

INVOICE #

186

INVOICE DATE

12/03/2018

DESCRIPTION	AMOUNT
Labor and Material to replace 3 doors with new fiberglass doors.	2,620.00
TOTAL	\$2,620.00

Thank you

TERMS & CONDITIONS

Payment is due within 15 days



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

FOCUSED ENERGY. For life.

Account Number 458005832
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD,
 LAKE OZARK, MO 65049

AMOUNT DUE \$3,924.43

Due Date 02/01/2019

Current Detail for Statement 01/10/2019

Total Electric Charges \$3,924.43

Amount After Due Date \$3,983.30

Total Amount Due \$3,924.43

Previous Statement \$3,652.43

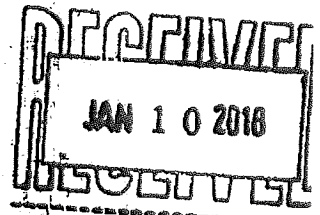
Total Payments \$3,652.43

Payment Received. Thank You.



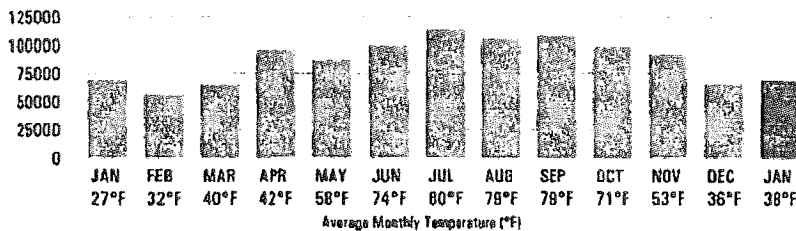
Stay informed about your energy usage
 anytime. Go to AmerenMissouri.com and
 create an account. It's simple and free!

Your electric rate decreased by approximately 8%. Your savings
 are noted as the Federal Tax Rate Reduction.



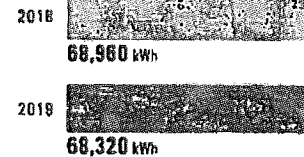
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

Your electric energy usage this year was about the same as last year.



Usage for Jan 2018 & 2019

00160 6059982 000310 000619 0007 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.

Page 1 of 4



☐ Check if you have address changes on back.

Please return this portion with your payment.

Amount Due	Due Date
\$3,924.43	February 01, 2019
Delinquent Amount After Due Date	Account Number
\$3,983.30	458005832

Amount Enclosed \$

>000160 6059982 0002 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

00600000 0045800058302 000003924430 000003924430



AmerenMissouri.com
1.877.426.3736
PO Box 88088 Chicago, IL 60680-1068
Ameren payment processing center

FOCUSED ENERGY. For life.

Electric Service Details Service from 12/05/2018 - 01/08/2019 (34 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	12/05 - 01/08	34	Total kWh	Actual	51106.0000	50679.0000	427.0000	180.0000	68320.0000
11673321	12/05 - 01/08	34	Peak kW	Actual	0.7840	0.0800	0.7040	180.0000	125.4000

Usage Summary

Total kWh	68320.0000	Peak kW	125.4000
Total Billing Demand	125.4000	October Winter Base kW	153.1000
Winter Base Demand	125.4000	Base kWh Ratio	1.0000
Base kWh (HUD)	68320.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	\$ 0.03890000	\$0.00
Demand Charge	125.40	kW	@	\$ 2.00000000	\$250.80
Base Energy Charge / Hours Used	18,810.00	kWh	@	\$ 0.06650000	\$1,250.87
Base Energy Charge / Hours Used	25,080.00	kWh	@	\$ 0.04940000	\$1,238.95
Base Energy Charge / Hours Used	24,430.00	kWh	@	\$ 0.03890000	\$950.33
Customer Charge					\$95.07
Fuel Adjustment Charge	68,320.00	kWh	@	\$ 0.00196000	\$133.91
Energy Efficiency Program Charge	68,320.00	kWh	@	\$ 0.00020000	\$13.66
Energy Efficiency Investment Charge	68,320.00	kWh	@	\$ 0.00448800	\$306.48
Federal Tax Rate Reduction	68,320.00	kWh	@	\$ -0.00462000	\$ -315.64
Total Service Amount					\$3,924.43
Total Electric Charges					\$3,924.43

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

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



ONLINE
E-CHECK



PHONE
866.268.3729



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



ONLINE
CREDIT CARD



MAIL
STUB & CHECK



AmerenMissouri.com
 1.877.426.3736
 PO Box 88068 Chicago, IL 60680-1988
 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 01/10/2019

Total Electric Charges \$65.29

Total Amount Due \$65.29



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

AMOUNT DUE \$65.29

Due Date 02/01/2019

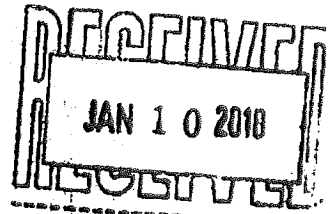
Amount After Due Date \$66.27

Previous Statement \$78.79

Total Payments \$78.79

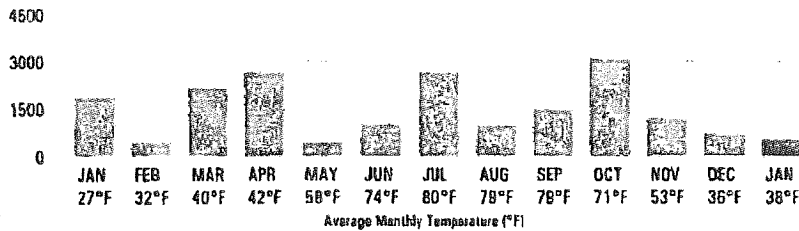
Payment Received. Thank You.

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



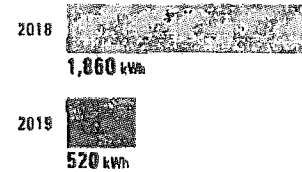
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 72% less than last year.



Usage for Jan 2018 & 2019

13073 00181 6069982 000352 000703 000170002

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.

Page 1 of 4



☐ Check if you have address changes on back.

Please return this portion with your payment.

Amount Due	Due Date
\$65.29	February 01, 2019
Delinquent Amount After Due Date	Account Number
\$66.27	5580005920

Amount Enclosed \$

>000181 6059982 0002 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

90633000 0055800059200 000000065290 000000065290



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 12/05/2018 - 01/08/2019 (34 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	12/05 - 01/08	34	Total kWh	Actual	18129.0000	18077.0000	52.0000	10.0000	520.0000
98041275	12/05 - 01/08	34	Peak kWh	Actual	3.8470	0.0000	3.8470	10.0000	38.4700

Usage Summary

Total kWh	520.0000	Winter Base kWh	1000.0000
Current Base kWh	520.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Base Energy Charge	520.00	kWh	@	\$ 0.08360000	\$43.47
Seasonal Energy Charge	0.00	kWh	@	\$ 0.04820000	\$0.00
Customer Charge					\$21.43
Fuel Adjustment Charge	520.00	kWh	@	\$ 0.00198000	\$1.02
Energy Efficiency Program Charge	520.00	kWh	@	\$ 0.00010000	\$0.05
Energy Efficiency Investment Charge	520.00	kWh	@	\$ 0.00449900	\$2.34
Federal Tax Rate Reduction	520.00	kWh	@	\$ -0.00581000	\$ -3.02
Total Service Amount					\$65.29
Total Electric Charges					\$65.29

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
December 26, 2018	\$78.79

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

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay

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

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 65065

INVOICE

Invoice No: 8169
Invoice Date: 1-Jan-19
Customer No: 20220
Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Jan-2019 Base Fee	\$24,996.00
TOTAL DUE		\$24,996.00

Alliance Water Resources, Inc.

Professional Water and Wastewater Operations

**208 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 65065

INVOICE

Invoice No: 8170

Invoice Date: 1-Jan-19

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Menards - Invoice # 39158 06 4558 - 50% (replacement heaters) <i>alt</i>	\$364.99
	Roemer's Heavy Equipment - Invoice # 19520 - 50% (GMC Service & Lube) <i>418</i>	\$240 17
	Republic Services - Invoice # 0435-000598815 - 50% (Regular Dumpster & Sandblast Dumpster) <i>4020</i>	\$217.08
TOTAL DUE		\$822.24

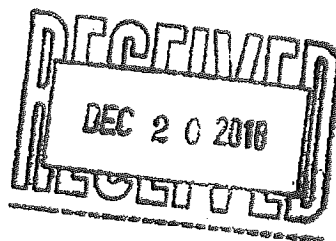


MENARDS - LAKE OZARK
1015 Barred Owl Lane
Lake Ozark, MO 65049

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for
items on this receipt will be in the form
of an in store credit voucher if the
return is done after 03/20/19

If you have questions regarding the
charges on your receipt, please
email us at:
OZRKfrontend@menards.com



Sale Transaction

50000810 UNIT HEATER	
6350031	399.99
5000W 240V GARAGE HEATER	
6354245	329.99
TOTAL	729.98
TAX LAKE OZARK MO 7.975%	58.22
TOTAL SALE	788.20
MasterCard 1719	788.20
Auth Code:036102	
Chip Inserted	
a0000000041010	
TC - ab7af8881ebc005b	

TOTAL NUMBER OF ITEMS = 2

GUEST COPY

The Cardholder acknowledges receipt of
goods/services in the total amount shown
hereon and agrees to pay the card issuer
according to its current terms.

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, Becky

39158 06 4558 12/20/18 02:32PM 3286

REPLACEMENT HEATERS
FOR THE NON-POT ROOM + PAS
VALUE ROOM

GL Acct#: 6700-20 \$423.21 1220-20 \$364.99

Signature: [Signature] E/R

Date: 12/20/18

P.O. Box 191
Beach, Missouri 65
(573) 348-3733

P.O. Box 191
Beach, Missouri 65
(573) 348-3733

ROEMER'S HEAVY EQUIPMENT
& TRUCK REPAIR
P.O. Box 191
Osage Beach, Missouri 65065
(573) 348-3733

19520

NAME	CUSTOMER SERVICE NO.	DATE
Alltime Water Resources	19580	12/20/18
ADDRESS	ORDER WRITTEN BY	PROMISED
PO Box 1985	LR	A.M.
CITY, STATE, ZIP		P.M.
Lake Ozark MO 65049		
HOME PHONE	BUSINESS PHONE	EXT.
YEAR, MAKE AND MODEL	LICENSE NUMBER	ODOMETER IN
2018 GMC		ODOMETER OUT
SERIAL NUMBER	MOTOR NUMBER	TERMS
		Due on 12/20/18
DESCRIPTION OF WORK		
☐ LUBE ☐ CHANGE OIL ☐ OIL FILTER ☐ TUNE-UP ☐ TRANS. ☐ DIFF.		
Full service and lube. Checked everything over. Water wasn't heating very well, fixed it.		
AMOUNT		
GL Acct#: 1072-20 251.77 1000-20 340.17		
Signature: <u>[Signature]</u>	4150	
Date: 12/31/18		
6 LITERS/GALS. OF OIL	87 00	TOTAL LABOR 330 00
LITERS/GALS. OF OIL		TOTAL PARTS 42 94
5AL COOLANT	20 39	ACCESSORIES
1 GALS OF GREASE		GAS, OIL & GREASE 107 39
		SUBLET REPAIRS
		ENV WASTE DISPOSAL
		TAX 11 61
		TOTAL 491 94
		THANK YOU!

I hereby authorize the above repair work to be done along with the necessary materials. You and your employees may operate above vehicle for purposes of testing, inspection, or delivery at my risk. An express mechanics lien acknowledged on above vehicle to secure the amount of repairs thereto. It is also understood that you will not be held responsible for loss or damage to cars or articles left in cars in case of fire, theft or any other cause beyond your control.

SAVE OLD PARTS? ☐ YES ☐ NO

SIGNATURE

50



35 N Frontage Road
Osage Beach MO 65065-433131

Customer Service (573) 346-3637
RepublicServices.com/Support

Important Information

Thanks for being a loyal customer and for trusting us to handle your recycling and waste needs responsibly while protecting our Blue Planet.

Account Number	3-0435-0010208
Invoice Number	0435-000598815
Invoice Date	December 20, 2018
Previous Balance	\$145.23
Payments/Adjustments	-\$145.23
Current Invoice Charges	\$434.18

Total Amount Due \$434.16	Payment Due Date January 09, 2019
--	--

PAYMENTS/ADJUSTMENTS

<u>Description</u>	<u>Reference</u>	<u>Amount</u>
Payment - Thank You 12/17	175826	-\$145.23

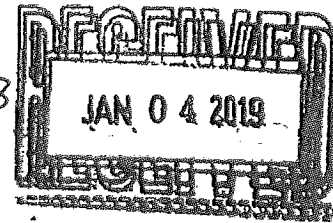
CURRENT INVOICE CHARGES

<u>Description</u>	<u>Reference</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
Alliance Water Resources Inc. #3 Anderson Road CSA C0074 Lake Ozark, MO				
1 Waste Container 2 Cu Yd, 1 Lift Per 2 Weeks				
Waste/Recycling Overage 12/11		1.0000	\$26.00	\$26.00
Pickup Service 01/01-01/31			\$102.77	\$102.77
Fuel/Environmental Recovery Fee				\$42.27
Location Total				\$171.04

GL Acct#: 7402-20 \$217.08 1220-20 \$217.08

Signature: Dary Huthwaite

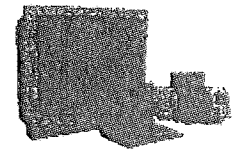
Date: 1/4/19



FOR REGULAR DUMPSTER + SANDBLAST SAND DUMPSTER

Electronics Recycling with BlueGuard™

Convenient recycling solutions that are safe for your business and good for our planet. To learn more, visit RepublicServices.com/Electronics


**REPUBLIC
SERVICES**

35 N Frontage Road
Osage Beach MO 65065-4331

Please Return This
Portion With Payment

Return Service Requested

L2RCFSDTDB 000882



JOINT SEWER BOARD
C/O ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK MO 65049-1985

Total Amount Due	\$434.16
Payment Due Date	January 09, 2019
Account Number	3-0435-0010208
Invoice Number	0435-000898615



For Billing Address Changes,
Check Box and Complete Reverse.

Make Checks Payable To:



REPUBLIC SERVICES #435
PO BOX 9001099
LOUISVILLE KY 40290-1099

30435001020800000005988150000434160000434162

LEUCISDUB WURBEL TNNNNNNNNNN NNN NNN 001 002 004251 21011301 -

4020



**REPUBLIC
SERVICES**

35 N Frontage Road
Osage Beach MO 65065-433131

Page 3 of 3

Account Number
Invoice Number
Invoice Date

3-0435-0010208
0435-000598815
December 20, 2018

CURRENT INVOICE CHARGES

<u>Description</u>	<u>Reference</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
Alliance Water-20yd *spw* #3 Anderson Road CSA A183834331				
Lake Ozark, MO				
1 Waste Container 20 Cu Yd, On Call Service				
Container Delivery 12/03		1.0000	\$188.27	\$188.27
Delivery Discount 12/03		1.0000	\$46.27	-\$46.27
Rental 12/13-12/31			\$80.29	\$50.15
Fuel/Environmental Recovery Fee				\$83.07
Location Total				\$255.22
Administrative Fee				\$5.95
Total Fuel/Environmental Recovery Fee				\$107.29
CURRENT INVOICE CHARGES				\$434.16

L2RCFSDTDB 000992 1 NNNNNNNN NNN NNN 002 002 004253 21011301.1



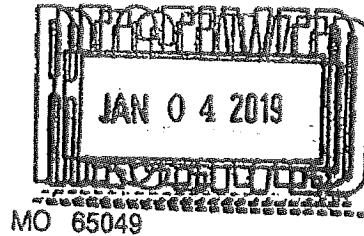
Remit To:
 MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
 14821 W. 95TH STREET
 LENEXA KS 66215
 (573) 442-8455

Invoice	
Date 01/01/2019	Number CLM01190095
Due Date 01/31/2019	Cust # 022031
Invoice Amount \$ 195.00	Amount Remitted

Sold To:
 JOINT SEWER BOARD

 3 ANDERSON RD

 LAKE OZARK



For:
 ALLIANCE WATER

 3 ANDERSON RD

 LAKE OZARK

MO 65049

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:
 JOINT SEWER BOARD
 3 ANDERSON RD
 LAKE OZARK MO 65049

For:
 ALLIANCE WATER
 3 ANDERSON RD
 LAKE OZARK MO 65049

Invoice No	Date	Cust No	Sismn No	PO Number	Franchisee	Due Date	
CLM01190095	01/01/2019	022031			RJ ENTERPRISES, LLC	01/31/2019	
Quantity	Description				Unit Price	Extended Price	
1	MONTHLY CONTRACT BILLING AMOUNT FOR JANUARY				195.00	195.00	
Make All Checks Payable To: MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA					4020		
					Amount of Sale		\$ 195.00
					Sales Tax		\$ 0.00
					Total		\$ 195.00

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

Account Number	Account Name	12/31/2018					Percent YTD
		2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 12/31/2018	2018 Dec. Revenue	
3020	Osage Beach	475,802.57	478,614.41	478,500.00	480,784.67	39,501.71	100%
3010	Lake Ozark	74,197.42	71,385.58	71,500.00	69,215.30	6,331.62	97%
3030	Misc.				1,485.00	0.00	
3100	Interest	368.52	781.57	500.00	1,484.82	113.97	297%
3060	Waste Haulers' Fee	33,460.00	30,500.00	34,500.00	25,780.00	2,440.00	75%
Total Operating Fund		583,828.51	581,281.56	585,000.00	578,749.79	48,387.30	99%
E/R Fund Income		2,847.67	2,319.07	2,300.00	4,281.74	143.45	186%
TOTAL INCOME		586,676.18	583,600.63	587,300.00	583,031.53	48,530.75	99%

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

Account Number	Account Name	11/30/2018					Percent YTD
		2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 11/30/2018	2018 Nov. Revenue	
3020	Osage Beach	475,802.57	478,614.41	478,500.00	441,282.96	39,796.08	92%
3010	Lake Ozark	74,197.42	71,385.58	71,500.00	62,883.68	6,037.25	88%
3030	Misc.				1,485.00	0.00	
3100	Interest	368.52	781.57	500.00	1,370.85	152.35	274%
3060	Waste Haulers' Fee	33,460.00	30,500.00	34,500.00	23,340.00	860.00	68%
Total Operating Fund		583,828.51	581,281.56	585,000.00	530,362.49	46,845.68	91%
E/R Fund Income		2,847.67	2,319.07	2,300.00	4,138.29	83.63	180%
TOTAL INCOME		586,676.18	583,600.63	587,300.00	534,500.78	46,929.31	91%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
12/31/2018

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 12/31/2018	2018 Dec. Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,604.17	41,604.00	41,604.17	3,467.00	100%
4020	*Maintenance & Repair	18,735.50	129,789.11	115,000.00	9,713.86	825.96	8%
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	3,887.47	415.24	130%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	0.00	100%
4170	Contract Management	303,638.88	311,229.84	320,566.84	319,010.64	26,584.22	100%
4185	Electric	72,637.17	69,261.90	75,000.00	79,533.37	3,731.22	106%
4190	Bank Charges	14.85	24.35	0.00	24.00	3.00	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	482,548.76	35,026.64	66%
	**E/R Expenses	7,980.42	7,554.68	67,500.00	42,782.61	2,620.00	63%
	TOTAL EXPENSES	481,893.38	600,055.66	801,770.84	525,331.37	37,646.64	66%

****Equipment & Replacement**

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

***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
		<u>115,000.00</u>

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
11/30/2018**

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 11/30/2018	2018 Nov Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,604.17	41,604.00	38,137.17	3,467.00	92%
4020	*Maintenance & Repair	18,735.50	129,789.11	115,000.00	8,887.90	538.38	8%
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	0.00	116%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	0.00	100%
4170	Contract Management	303,638.88	311,229.84	320,566.84	292,426.42	26,584.22	91%
4185	Electric	72,637.17	69,261.90	75,000.00	75,802.15	5,316.62	101%
4190	Bank Charges	14.85	24.35	0.00	21.00	4.00	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	447,522.12	35,910.22	61%
	**E/R Expenses	7,980.42	7,554.68	67,500.00	40,162.61	0.00	60%
	TOTAL EXPENSES	481,893.38	600,055.66	801,770.84	487,684.73	35,910.22	61%

****Equipment & Replacement**

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

***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
		<u>-</u>
		115,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
12/31/2018

Beginning Balance	360,737.95
Income - Osage Beach	39,501.71
Income - Lake Ozark	6,331.62
Income - Other	-
Income - Waste Haulers' Fees	2,440.00
Interest - Checking	113.97
Income - CD Interest	224.01
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(31,559.64)
Ending Fund Balance	374,322.62
Central Bank - NOW Acct.	222,047.28
CD Central Bank, 12/18 #150784	-
First Bank of the Lake - Money Mkt.	101,746.74
CD St. Elizabeth, 3/19 #400886	50,528.60
Outstanding Checks:	-
Deposit in Transit:	-
	374,322.62

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
12/31/2018

Beginning Balance	525,044.71
Interest - Checking	-
Income - CD Interest	143.45
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	(2,620.00)
Ending Fund Balance	526,035.16
First Bank of the Lake - Money Mkt.	169,106.93
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:	-
	526,035.16

OPERATING FUND INCOME AND EXPENSE SUMMARY
11/30/2018

Beginning Balance	349,802.49
Income - Osage Beach	39,796.08
Income - Lake Ozark	6,037.25
Income - Other	-
Income - Waste Haulers' Fees	860.00
Interest - Checking	152.35
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(32,443.22)
Ending Fund Balance	360,737.95
Central Bank - NOW Acct.	133,549.35
CD Central Bank, 12/18 #150784	75,000.00
First Bank of the Lake - Money Mkt.	101,660.00
CD St. Elizabeth, 3/19 #400886	50,528.60
Outstanding Checks:	-
Deposit in Transit:	-
	360,737.95

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
11/30/2018

Beginning Balance	521,494.08
Interest - Checking	83.63
Income - CD Interest	-
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	525,044.71
First Bank of the Lake - Money Mkt.	168,116.48
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:	-
	525,044.71

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	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
3689	Ameren MO	X	5,684.73		180,083.78
3690	Equipment Replacement Fund	X	3,467.00		176,616.78
3691	Alliance Water Resources, Inc.	X	26,584.22		150,032.56
3692	Alliance Water Resources, Inc.	X	220.00		149,812.56
3693	Alliance Water Resources, Inc.	X	1,532.75		148,279.81
3694	Lake Sun Leader	X	238.50		148,041.31
	Two signature verification chg.	X	6.00		148,035.31
	Deposit LO	X	-	5,808.30	153,843.61
	Deposit OB	X		40,025.03	193,868.64
	Deposit	X		2,380.00	196,248.64
	Purple Wave	X		1,485.00	197,733.64
	Interest	X		15.80	197,749.44
	reconciled balance 10/31/18				197,749.44
3695	Ameren MO	X	5,316.62		192,432.82
3696	Equipment Replacement Fund	X	3,467.00		188,965.82
3697	Alliance Water Resources, Inc.	X	26,584.22		162,381.60
3698	Alliance Water Resources, Inc.	X	538.38		161,843.22
	Two signature verification chg.	X	4.00		161,839.22
	Deposit LO	X	-	6,037.25	167,876.47
	Deposit OB	X		39,796.08	207,672.55
	Deposit	X		860.00	208,532.55
	Interest	X		16.80	208,549.35
	reconciled balance 11/30/18				208,549.35
3699	Ameren MO	X	3,731.22		204,818.13
3700	Equipment Replacement Fund	X	3,467.00		201,351.13
3701	Alliance Water Resources, Inc.	X	26,584.22		174,766.91
3702	Alliance Water Resources, Inc.	X	1,241.20		173,525.71
	Two signature verification chg.	X	3.00		173,522.71
	Deposit LO	X	-	6,331.62	179,854.33
	Deposit OB	X		39,501.71	219,356.04
	Deposit	X		2,440.00	221,796.04
	CD Interest			224.01	222,020.05
	Interest	X		27.23	222,047.28
	reconciled balance 12/31/18				222,047.28

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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 12/01/2018 - 12/31/2018 Page 1 of 3

Web Address
www.centralbank.net

M
000007

Your Financial Summary on December 31, 2018

	Bank Deposits		Totals
Bank Deposit Accounts:			
Checking	\$ 222,047.28		
Bank Deposit Total		\$	222,047.28
Total Assets:	\$ 222,047.28	\$	222,047.28

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297	Beginning Balance November 30, 2018	\$	133,549.35
Deposits			
Dec. 03 CD Interest 000150784			224.01
Dec. 03 CD Redemption 000150784			75,000.00
Dec. 05 Deposit			900.00
Dec. 18 Deposit			6,331.62
Dec. 18 Deposit			39,501.71
Dec. 20 Deposit			1,540.00
Dec. 31 Interest Earned			27.23
	Total	+\$	123,524.57
Checks			
Check No. 3699 Date Paid Dec. 27 Amount 3,731.22	Check No. 3701 Date Paid Dec. 21 Amount 26,584.22		
3700 Dec. 19 3,467.00	3702 Dec. 21 1,241.20		
	Total	-\$	35,023.64
Withdrawals and other charges			
Date 11/2018 Type TWO SIGNATURE VERI Transaction Description			3.00
	Total	-\$	3.00
	Ending Balance December 31, 2018	\$	222,047.28

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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 11/01/2018 - 11/30/2018 Page 1 of 3

Web Address
www.centralbank.net

M
000.

Your Financial Summary on November 30, 2018

	Bank Deposits		Totals
Bank Deposit Accounts:			
Checking	\$ 133,549.35		
Certificates of Deposit	\$ 75,000.00		
Bank Deposit Total		\$	208,549.35
Total Assets:	\$ 208,549.35	\$	208,549.35

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297		Beginning Balance October 31, 2018		\$	122,749.44
Deposits					
Nov. 19	Deposit				6,037.25
Nov. 19	Deposit				39,796.08
Nov. 21	Deposit				860.00
Nov. 30	Interest Earned				16.80
Total				+\$	46,710.13
Checks					
Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3695	Nov. 29	5 316.62	3697	Nov. 27	26,584.22
3696	Nov. 23	3 467.00	3698	Nov. 27	538.38
Total				-\$	35,906.22
Withdrawals and other charges					
Date	Type	Transaction Description			
Nov. 01	10/2018 TWO SIGNATURE VERI				
Total				-\$	4.00
Ending Balance November 30, 2018				\$	133,549.35

JSB - CHECK REGISTERS 2018

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	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
	Interest	X	245.69	273,323.91
	Deposit	X	3,467.00	276,790.91
1025	Natural Gas Solutions LLC	X	9,522.52	267,268.39
1026	John Henry Foster	X	1,178.09	266,090.30
	reconciled balance 10/31/18			266,090.30
	Interest	X	219.18	266,309.48
	Deposit	X	3,467.00	269,776.48
	reconciled balance 11/30/18			269,776.48
	Interest	X	230.19	270,006.67
	Deposit	X	3,467.00	273,473.67
1027	Choat Const. Co.	X	2,620.00	270,853.67
	reconciled balance 12/31/18			270,853.67

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Print

Page 1 of 1

MONEY MARKET ACCOUNT
Printed by: JEANNIE NEUMAN

FIRST BANK OF THE LAKE

1/10/2019 11:09:36 AM
Reporting Institution: 36

Demand Deposit**LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT**

	Relationship	Date of Birth	Phone Number	Tax Identification
LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT	Owner		*****	EIN **-*****
SEWER BD.-TREATMENT PLANT BD.	Owner		*****	
1000 CITY PKWY OSAGE BEACH MO 65065-3058				

Additional Relationships

BUSINESS MONEY MARKET

Tax Name: LAKE OZARK-OSAGE BEACH
JOINT SEWER TREAT

Current & Previous Cycle

Description	Debits	Credits	Date	Balance
Balance Forward:			Nov 30, 2018	\$269,776.48
Deposit		\$3,467.00	Dec 18, 2018	\$273,243.48
Check #1027	\$2,620.00		Dec 31, 2018	\$270,623.48
Interest		\$230.19	Dec 31, 2018	\$270,853.67
****Statement Produced****			Dec 31, 2018	\$270,853.67
Balance This Statement:			Jan 09, 2019	\$270,853.67



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

536 00010 01
ACCOUNT:
DOCUMENTS:

PAGE: 1
11/30/2018

1

00130 3150235 10Z ATM 608 127.1.4

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

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 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 10/31/18	266,090.30
2 CREDITS	3,686.18
DEBITS	.00
THIS STATEMENT 11/30/18	269,776.48

DEPOSITS					
REF #	DATE	AMOUNT	REF #	DATE	AMOUNT
	11/21	3,467.00			

OTHER CREDITS		
DESCRIPTION	DATE	AMOUNT
INTEREST	11/30	219.18

INTEREST			
AVERAGE LEDGER BALANCE:	267,245.96	INTEREST EARNED:	219.18
AVERAGE AVAILABLE BALANCE:	266,668.13	DAYS IN PERIOD:	30
INTEREST PAID THIS PERIOD:	219.18	ANNUAL PERCENTAGE YIELD EARNED:	1.00%
INTEREST PAID 2018:	2,241.18		

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



Z0210546

NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION



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

Operating Fund	2016 Actual	2017 Actual	2018 Budget	2018 10/31/2018	2018 Nov/Dec	2018 Total Est.	2019 Proposed	2019 Proposed
3020 Osage Beach	475,802.57	478,614.41	473,000.00	401,486.88	77,013.12	478,500.00	478,500.00	
3010 Lake Ozark	74,197.42	71,385.58	77,000.00	56,846.43	14,653.57	71,500.00	71,500.00	
3030 Misc.				1,485.00				
3100 Interest	368.52	781.57	200.00	1,218.50	200.00	1,418.50	400.00	
3060 Waste Haulers'	33,460.00	30,500.00	35,000.00	22,480.00	5,000.00	27,480.00	30,000.00	
Total Operating	583,828.51	581,281.56	585,200.00	483,516.81	96,866.69	578,898.50	580,400.00	
Equipment Replace.								
Transfers-Operat	41,606.04	41,604.17	41,606.04	34,670.17	10,401.51	45,071.68	41,606.04	
Interest Revenue	2,847.67	2,319.07	1,500.00	3,360.61	400.00	3,760.61	3,000.00	
Total E.R. Reve	44,453.71	43,923.24	43,106.04	38,030.78	10,801.51	48,832.29	44,606.04	

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

	2016 Actual	2017 Actual	2018 Budget	2018 10/31/2018	2018 Nov/Dec	2018 Total Est.	2019 Proposed	2019 Proposed
4000 Equip. Replace Fund	41,606.04	41,604.17	41,604.00	34,670.17	6,934.00	41,604.17	41,604.00	
4020 Equip & Bldg. Repair/Main.	18,735.50	129,789.11	115,000.00	8,349.52	78,000.00	86,349.52	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	8,000.00	***
4160 Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	-	8,000.00	-	
4170 Contract Management	303,638.88	311,229.84	320,566.84	265,842.20	53,168.44	319,010.64	299,592.00	
4175 Electric	72,637.17	69,261.90	75,000.00	70,485.53	8,613.00	79,098.53	80,000.00	
4176 Utilities Misc.	0.00	0.00	0.00	-	-	-	5,000.00	
4190 Bank Charges	0.00	24.35	0.00	17.00	6.00	23.00	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 Generator	0.00	0.00	150,000.00	-	-	-	152,000.00	
Total Operating Fund	473,912.96	592,500.98	734,270.84	411,611.90	148,221.44	559,833.34	729,686.25	
E/R Expenses per Alliance	7,980.42	7,980.42	67,500.00	40,162.61	2,620.00	42,782.61	96,500.00	**
Disinfectin System	-	-	-	-	-	-	-	
Total E.R. Fund	7,980.42	7,980.42	67,500.00	40,162.61	2,620.00	42,782.61	96,500.00	
TOTAL EXPENSES	481,893.38	600,481.40	801,770.84	451,774.51	150,841.44	602,615.95	826,186.25	

****Equipment & Replacement**

Rebuild Ducking Skimmer /	5,000.00	Tier 1
Replace BOD & Ammonia f	2,000.00	Tier 1
Replace grit concentrator, 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	15,000.00	Tier 2
Replace electric panel in R/	40,000.00	Tier 2
	<u>96,500.00</u>	

*****Vehicle Repair/Maint**

Vehicle Maintenance	8,000.00	Tier 1
	<u>8,000.00</u>	

***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 vives lab testing	100,000.00	Tier 2
	<u>122,000.00</u>	

ESTIMATED FUND BALANCES

OPERATING FUND

BALANCE 1/1/18	277,898.00
TOTAL ESTIMATED REVENUE	578,898.50
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(559,833.34)</u>
BALANCE 12/31/18	296,963.16
TOTAL ESTIMATED REVENUE	580,400.00
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(729,686.25)</u>
BALANCE 12/31/19	<u><u>147,676.91</u></u>

EQUIPMENT REPLACEMENT FUND

BALANCE 1/1/18	523,626.00
TOTAL ESTIMATED REVENUE/TRANSFERS	48,832.29
TOTAL ESTIMATED EXPENSES	<u>(42,782.61)</u>
BALANCE 12/31/18	529,675.68
TOTAL ESTIMATED REVENUE/TRANSFERS	44,606.04
TOTAL ESTIMATED EXPENSES	<u>(96,500.00)</u>
BALANCE 12/31/19	<u><u>477,781.72</u></u>

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OUR
MISSION

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management and financial oversight, and ensured regulatory compliance.

**Alliance Water
Resources,
Inc.**

**206 S. Keene
St.
Columbia, MO
65201**

(573)874-8080



REPORT OF OPERATIONS

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

Month of November 2018

Submitted by Alliance Water Resources, Inc. for the

January 2019

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	2.0	2.1	N/A	0		0.02	< 5.0	< 1.0
Peak Day	2.2	2.5	8.0	0		0.04	< 5.0	< 1.0
Percent Removal	99.0	99.0	N/A	N/A		N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		2.2	10	4.0
Weekly Average	45	45		630				
Daily Max						11.5	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.277 MGD or 43% 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 63454 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 11 tanker loads of bio-solids during the month equivalent to a total of 40,700 gallons and 12,899 pounds dry weight solids.

500,455 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 225,000 gallons with a level of 2.5 feet in Tank 1 and 2.5 feet in Tank 2.

WASTEHAULERS

The plant received 8 loads of septage during the month totaling 21,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We received the flex coupler inserts for aerator #6 on the 6th of November and got them installed and had it back online the same day. We also received the correct oil fitting for aerator #1 on the 19th and installed it and was back online the 20th.
- The paint contractor started the clarifier #3 sandblast and paint project on the 20th of November.

SAFETY

- We conducted our monthly routine Safety Meeting on Chlorine Safety on the 13th of November.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 12th of December.

MISCELLANEOUS AND RECOMMENDATIONS

- Alliance would like to remind all Joint Sewer Board members and guest that we are having our annual new year get together at Wobbly Boots BBQ in Osage Beach right after the Joint Sewer Board meeting this month.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 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-Nov	0.5	0.182	1.172	1.354	13.4	86.6						
2-Nov	0.1	0.168	1.104	1.272	13.2	86.8	178	170	160	134	130	174
3-Nov	0.3	0.226	1.387	1.613	14.0	86.0						
4-Nov	0.9	0.310	1.748	2.058	15.1	84.9						
5-Nov	0	0.175	0.982	1.157	15.1	84.9						
6-Nov	0.4	0.235	1.426	1.661	14.1	85.9						
7-Nov	0	0.179	1.143	1.322	13.5	86.5						
8-Nov	0	0.184	1.197	1.381	13.3	86.7						
9-Nov	0.5	0.138	1.016	1.154	12.0	88.0	183	163	230	122	110	214
10-Nov	0	0.183	1.212	1.395	13.1	86.9						
11-Nov	0	0.170	1.151	1.321	12.9	87.1						
12-Nov	0	0.160	1.107	1.267	12.6	87.4						
13-Nov	0.25	0.154	1.029	1.183	13.0	87.0						
14-Nov	0	0.142	1.004	1.146	12.4	87.6						
15-Nov	0.0	0.151	0.971	1.122	13.5	86.5						
16-Nov	0	0.153	0.991	1.144	13.4	86.6	183	210	180	140	218	160
17-Nov	0	0.157	1.099	1.256	12.5	87.5						
18-Nov	0	0.174	1.072	1.246	14.0	86.0						
19-Nov	0	0.158	0.983	1.141	13.8	86.2						
20-Nov	0	0.151	1.055	1.206	12.5	87.5						
21-Nov	0	0.140	0.946	1.086	12.9	87.1	203	203	230	160	158	324
22-Nov	0	0.150	1.068	1.218	12.3	87.7						
23-Nov	0	0.132	1.022	1.154	11.4	88.6						
24-Nov	0.6	0.193	1.256	1.449	13.3	86.7						
25-Nov	0	0.185	1.164	1.349	13.7	86.3						
26-Nov	0	0.165	1.038	1.203	13.7	86.3						
27-Nov	0	0.136	0.989	1.125	12.1	87.9						
28-Nov	0	0.147	0.928	1.075	13.7	86.3						
29-Nov	0	0.149	0.961	1.110	13.4	86.6	205	265	193	238	192	174
30-Nov	0	0.142	1.000	1.142	12.4	87.6						
SUM	3.6	5.089	33.221	38.310								
AVG		0.170	1.107	1.277	13	87	190	202	199	159	162	209
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

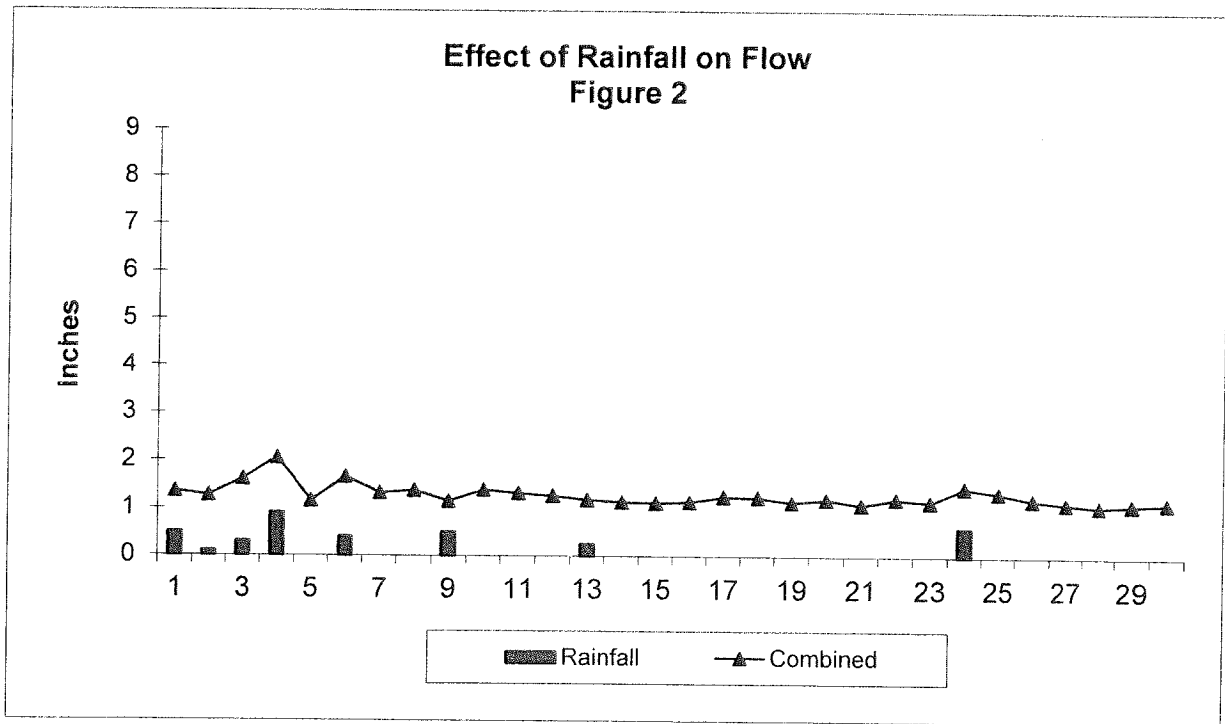
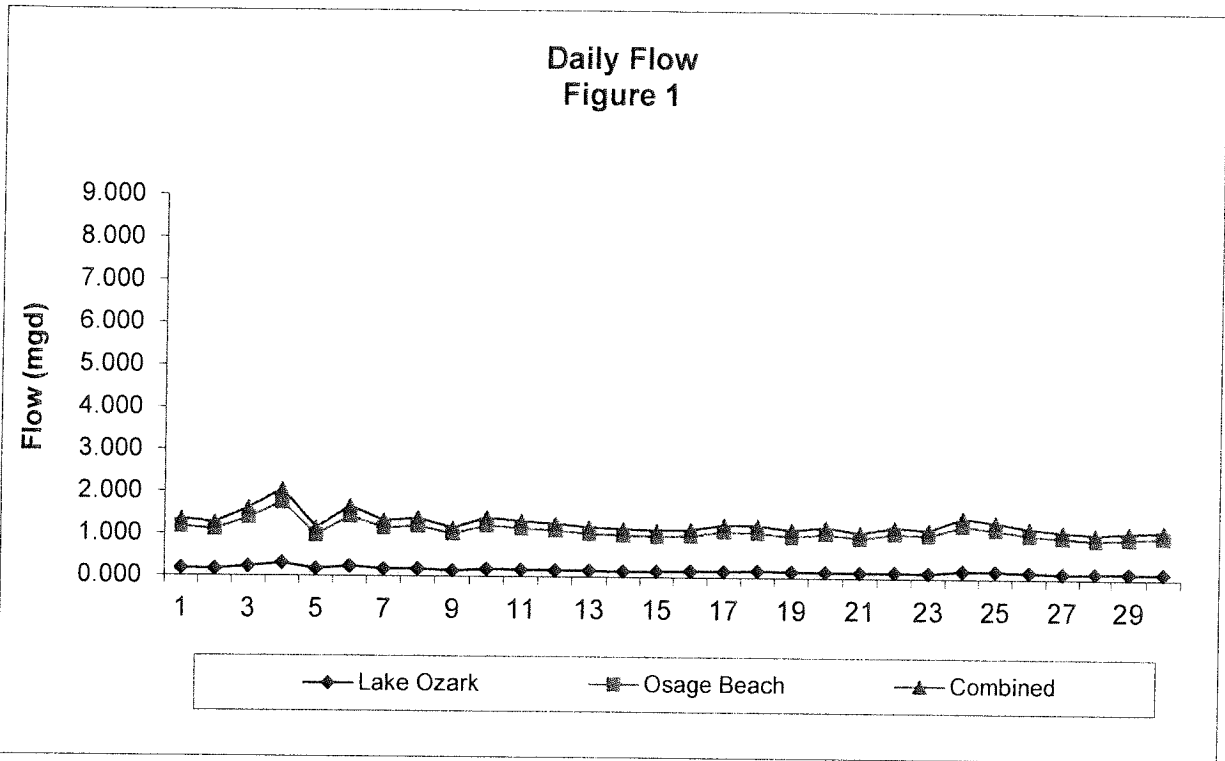
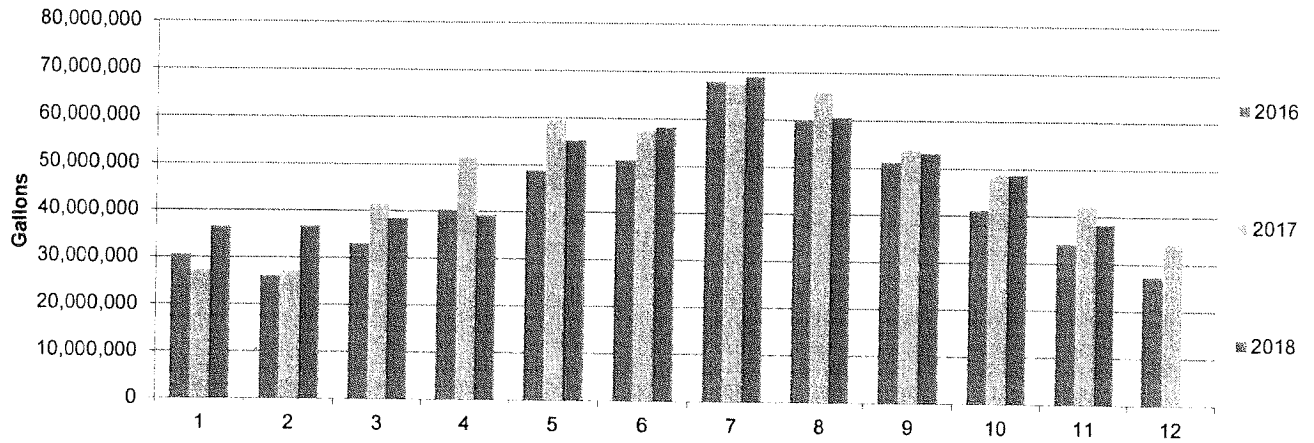


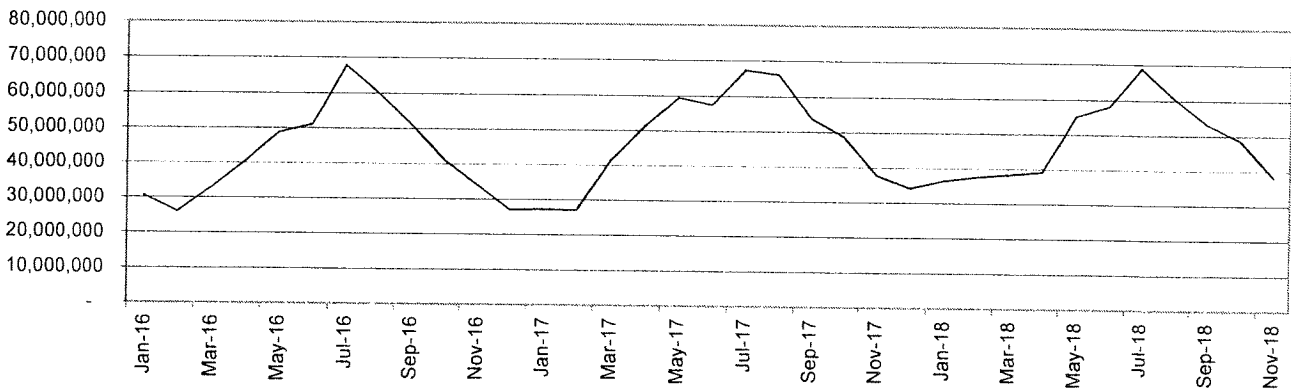
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December							
	46.0	465,368,000	87%	68,916,000	13%	534,284,000	100%

Monthly Influent Flow
Figure 3A

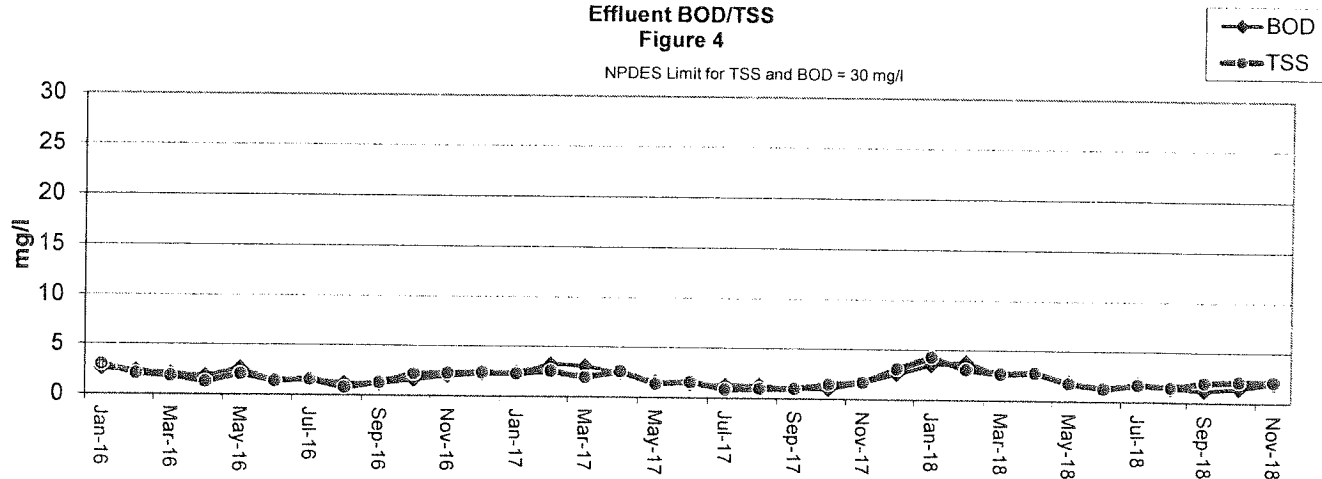


Monthly Influent Flow
Figure 3B

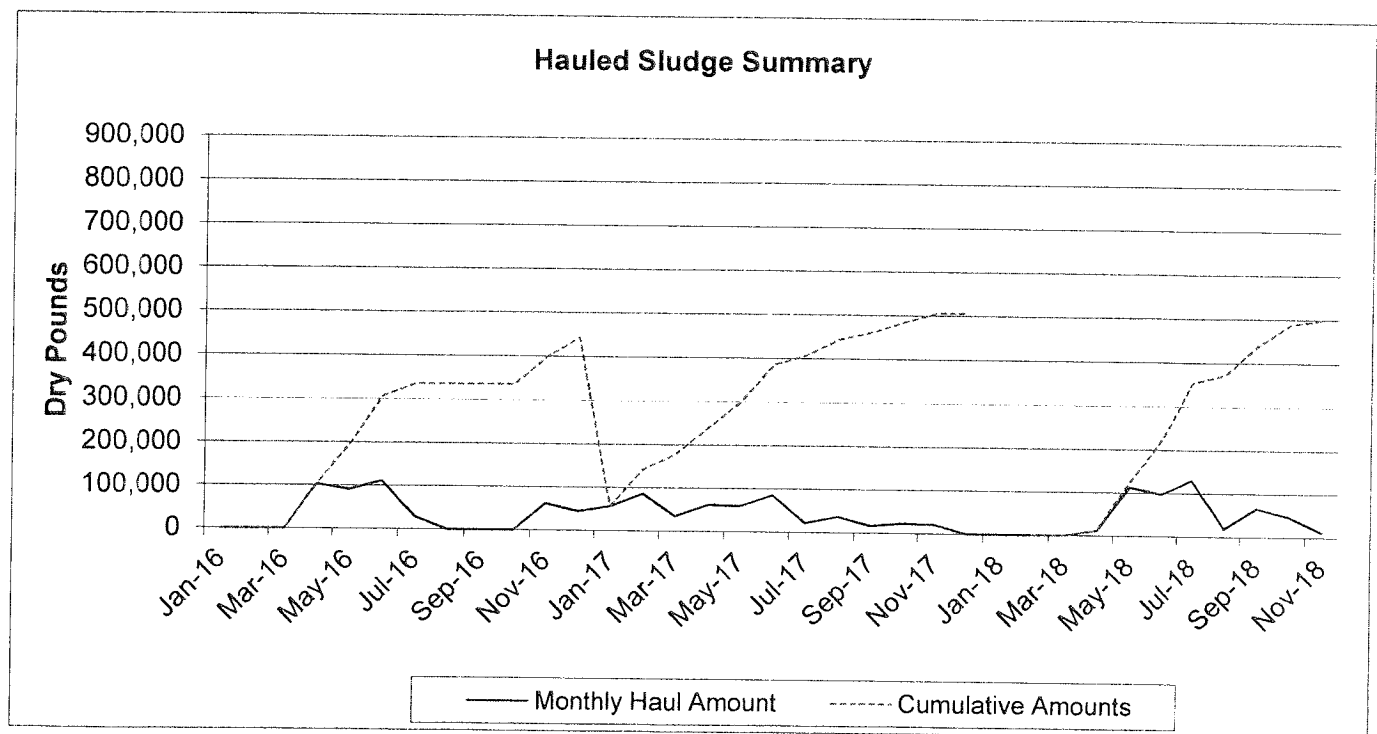
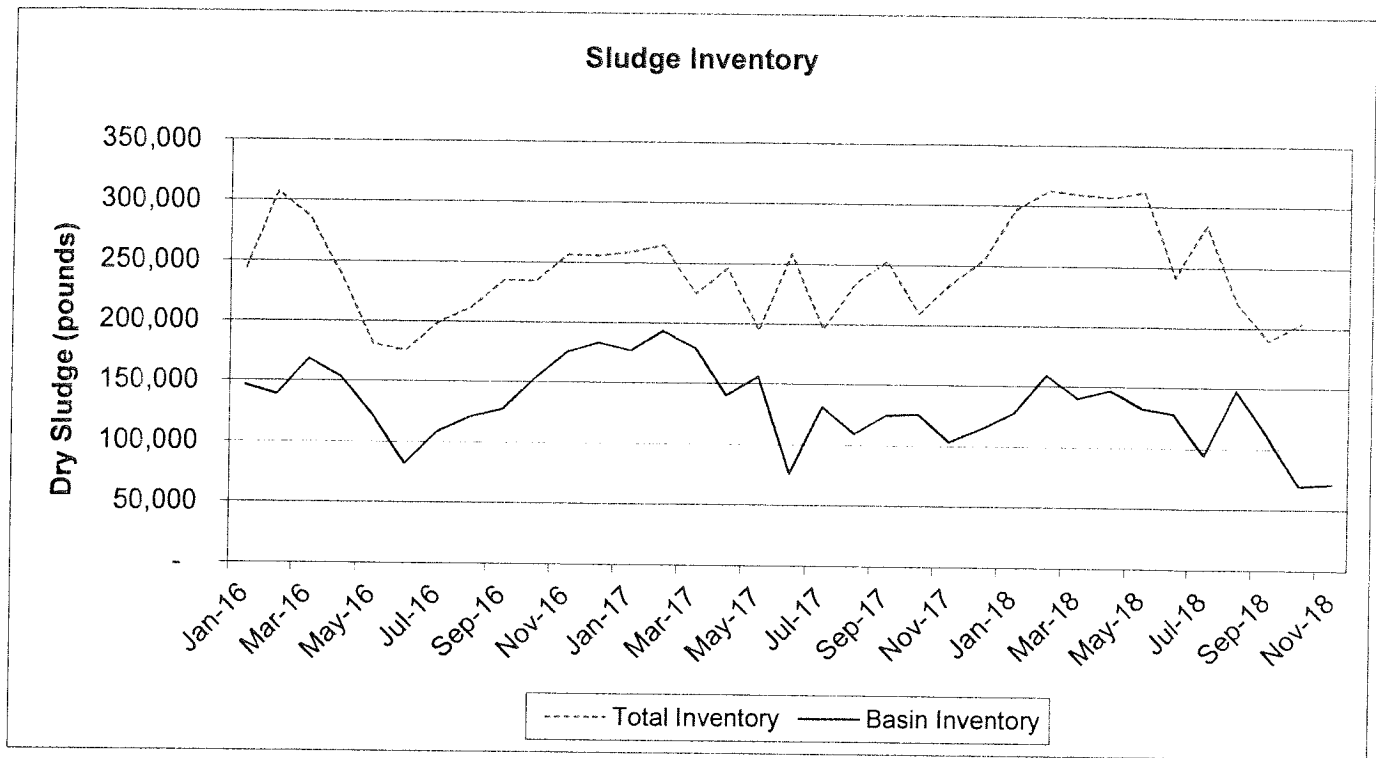


Effluent BOD/TSS
Figure 4

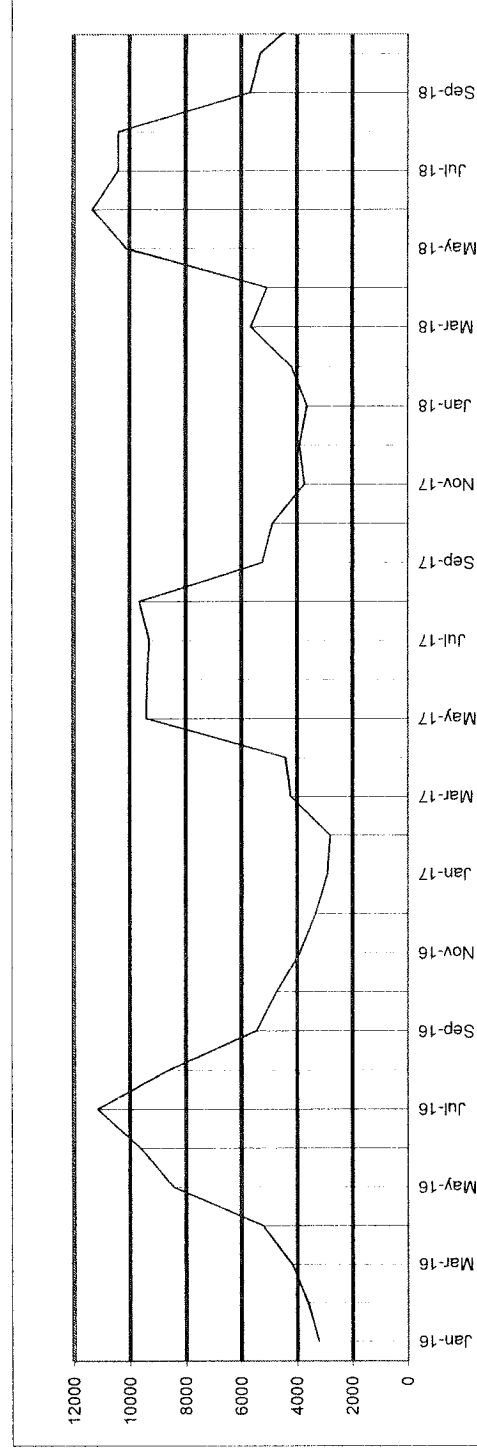
NPDES Limit for TSS and BOD = 30 mg/l



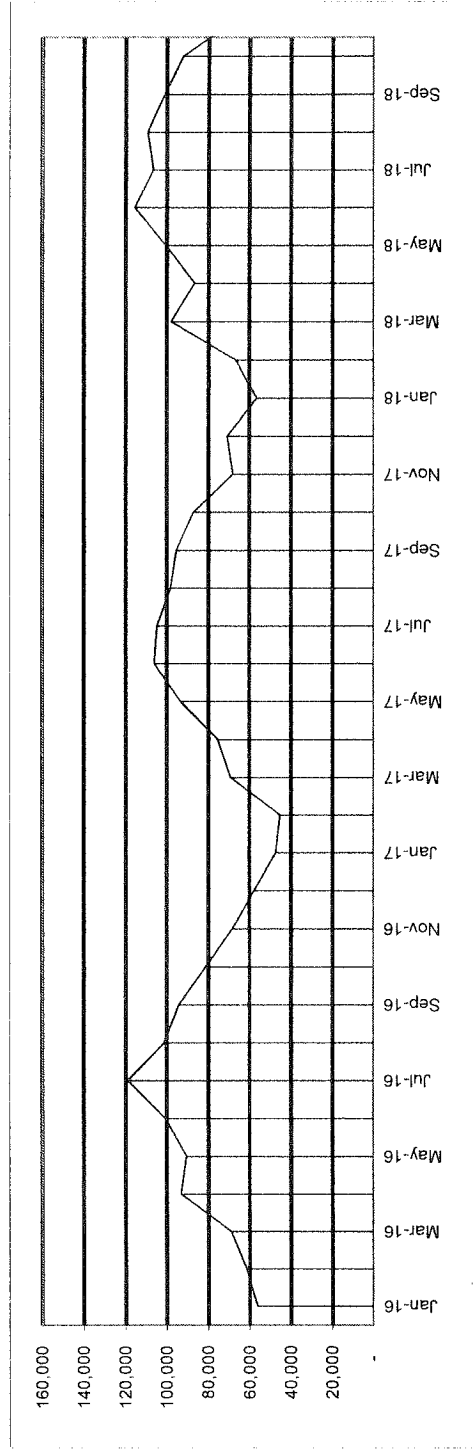
	Loads	Hauled Sludge			Basin Depths				Blanket Depths				MLSS Inventory			Blanket and MLSS Inventory			MLSS	Total Dry Sludge Inventory	Accepted Septage Loads	Gallons
		Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids				
Jan-16	0	-	0	3.9%	-	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.0	3,760	3,610	3,610	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	0.0	3,210	3,730	3,635,524	105,211	0.00347	244,260	6	15,000	
Mar-16	0	-	0	3.9%	-	6.0	5.5	0.0	517,500	168,322	2.0	2.0	1.0	4,670	4,320	3,714,476	139,249	0.00445	307,571	44	110,000	
Apr-16	86	318,200	103,652	3.9%	103,652	5.5	5.0	0.0	472,500	153,914	2.5	2.5	1.0	5,540	3,180	3,732,238	132,600	0.00426	286,515	6	15,000	
May-16	77	284,900	91,185	3.8%	194,837	5.5	3.0	0.0	382,500	122,423	5.0	5.0	1.0	2,770	3,670	3,750,000	116,343	0.00372	238,766	40	100,000	
Jun-16	99	366,300	111,706	3.7%	306,543	6.0	0.0	0.0	270,000	82,339	1.5	1.0	1.5	2,570	3,840	3,709,547	99,155	0.00321	181,494	30	75,000	
Jul-16	28	103,600	29,408	3.4%	335,951	4.5	4.0	0.0	382,500	108,577	1.0	1.0	1.0	1,740	2,630	3,678,952	67,041	0.00219	175,618	46	111,000	
Aug-16	0	-	0	3.4%	335,951	6.0	3.5	0.0	427,500	121,222	1.0	1.0	1.0	2,880	2,220	3,678,952	78,240	0.00255	199,462	43	96,000	
Sep-16	0	-	0	3.4%	335,951	5.0	5.0	0.0	450,000	127,602	1.0	1.0	1.0	2,800	2,690	3,678,952	84,223	0.00275	211,825	42	94,500	
Oct-16	0	-	0	3.4%	335,951	6.5	5.5	0.0	540,000	153,122	1.0	1.0	1.0	1,740	3,600	3,678,952	81,922	0.00267	235,045	35	75,500	
Nov-16	52	192,400	62,457	3.9%	398,408	7.5	4.5	0.0	540,000	183,393	1.0	0.0	1.5	-	3,770	1,882,904	59,202	0.00377	234,497	11	20,000	
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	1.0	-	4,700	1,861,190	72,955	0.0047	256,348	26	54,500	
Jan-17	47	173,000	56,748	3.9%	56,748	6.0	6.0	0.0	540,000	177,132	1.0	0.0	1.0	-	5,080	1,861,190	78,853	0.00508	255,986	15	37,500	
Feb-17	68	251,600	86,649	4.1%	143,397	5.5	7.0	0.0	562,500	193,720	1.5	0.0	2.0	-	4,090	1,913,499	65,271	0.00409	258,991	5	12,500	
Mar-17	33	122,100	34,808	3.4%	178,205	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,986,714	85,420	0.0054	265,019	41	102,500	
Apr-17	59	218,300	61,994	3.4%	240,199	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	224,939	8	20,000	
May-17	51	188,700	59,556	3.8%	299,755	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00295	246,426	45	116,000	
Jun-17	75	277,500	85,724	3.7%	385,479	2.5	3.0	0.0	247,500	76,457	3.0	2.5	1.0	4,530	3,000	3,762,833	118,153	0.00377	194,610	33	82,500	
Jul-17	20	74,000	21,631	3.5%	407,110	4.5	5.5	0.0	450,000	131,540	1.0	0.5	0.5	4,670	3,650	3,657,238	126,886	0.00416	258,426	43	107,500	
Aug-17	39	144,300	37,030	3.1%	444,140	5.0	4.5	0.0	427,500	109,704	0.5	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	196,173	41	103,500	
Sep-17	16	59,200	17,311	3.5%	461,451	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	234,892	48	122,000	
Oct-17	20	74,000	23,051	3.7%	484,502	8.0	1.0	0.0	405,000	126,158	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	263,182	10	23,500	
Nov-17	20	74,000	21,292	3.4%	505,794	4.5	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,060	3,666,119	106,250	0.00348	209,832	7	17,500	
Dec-17	0	-	0	3.4%	505,794	6.0	3.0	0.0	405,000	114,842	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792	7	17,500	
Jan-18	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500	
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000	
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000	
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000	
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	337,321	10	24,500	
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	342,100	38	96,000	
Jul-18	126	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	0.5	1.0	0.5	4,570	4,980	3,691,785	147,174	0.00478	242,026	42	107,000	
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000	
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,628,643	109,794	0.00363	220,132	45	113,500	
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409	21	59,500	
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809	8	21,500	



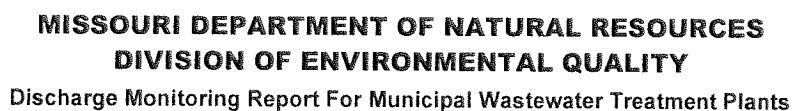
Electric Cost



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	95,470
Oct-17	4874	87,240
Nov-17	3738	68,100
Dec-17	3909	70,820
Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280

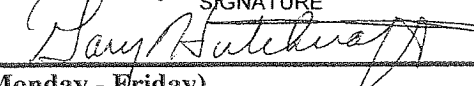
59

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7	< 5.0	< 1.0	211	275						
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	211	275						
Avg	< 5.0	< 1.0	211	275						
Min	< 5.0	< 1.0	211	275						
Max	< 5.0	< 1.0	211	275						

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1		3.0	4,020	620	16.8	2.7	3,990	640	17.0	48	0.5	7:30
2		4.0	3,840	610	15.9	2.7	3,960	680	16.0	43	0.1	7:30
3		3.3	4,110	650	15.4	2.1	3,580	550	15.6	49	0.3	7:30
4		1.9	4,280	720	15.7	1.7	3,300	450	16.0	52	0.9	7:30
5		2.3	4,070	660	15.0	1.5	3,430	540	15.3	46	0	7:30
6		2.9	4,250	710	15.9	2.6	3,770	600	16.0	46	0.4	7:30
7	5,863	4.4	3,880	600	14.7	3.8	4,300	730	14.9	41	0	7:30
8	7,036	3.0	4,360	700	14.1	3.0	3,870	650	14.5	41	0	7:30
9		3.6	4,070	760	13.3	3.8	4,040	700	13.5	36	0.5	7:30
10		3.5	4,180	750	11.5	3.7	3,730	680	11.9	23	0	7:30
11		4.7	4,030	680	12.1	4.5	4,200	750	12.5	35	0	7:30
12		4.1	4,300	760	11.0	2.6	3,940	700	11.7	38	0	7:30
13		4.7	4,160	790	11.5	5.2	4,170	780	11.7	22	0.25	7:30
14		4.8	4,140	730	9.7	4.3	4,240	790	9.9	19	0	7:30
15		4.8	4,650	700	10.6	4.1	3,680	820	10.9	31	0	7:30
16		5.8	3,640	790	11.1	3.5	4,350	790	11.5	32	0	7:30
17		5.7	3,820	690	10.9	3.6	4,310	790	11.4	35	0	7:30
18		5.0	3,890	660	11.3	3.0	4,500	760	11.8	37	0	7:30
19		4.3	2,860	550	11.2	2.1	4,630	820	11.4	37	0	7:30
20		4.7	3,850	660	11.3	2.4	4,160	710	11.5	33	0	7:30
21		6.7	4,590	790	11.3	5.4	4,350	680	11.8	32	0	7:30
22		6.4	4,710	820	11.3	6.0	4,370	680	11.8	31	0	7:30
23		3.4	4,680	810	12.0	4.7	3,920	760	12.4	47	0	7:30
24		1.8	4,740	820	12.6	3.2	4,020	640	13.3	39	0.6	7:30
25		2.4	4,570	780	12.6	3.1	4,240	750	13.1	42	0	7:30
26		3.1	4,410	810	11.4	3.0	4,280	790	10.8	26	0	7:30
27		4.0	3,800	780	9.2	3.0	4,630	830	9.9	28	0	7:30
28		5.5	5,010	850	8.8	4.2	3,990	700	9.5	29	0	7:30
29		3.7	4,540	810	10.4	4.2	3,850	770	10.8	33	0	7:30
30		4.7	4,100	760	11.6	4	4,640	810	11.8	42	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	12/12/2018
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	12/12/2018

***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
2018	11	01	2018	11	30

FROM TO

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	*****	*****	*****	2.2	1.9	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****	*****	*****	98.8	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.392	1.563	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	0.04	*****	0.02	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 11.5	*****	Monthly Average : 2.2	Weekly	Grab
Oil and grease (soxhlet extr.) tot (00550)	REPORTD	*****	*****	<5.0	*****	<5.0	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 15	*****	Monthly Average : 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	7.5	*****	8.0	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Minimum : 6.5	*****	Maximum : 9.0	Weekly	Grab
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****	<1.0	*****	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 9.1	*****	Monthly Average : 3.6	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	
Gary F Hutchcraft	Gary F Hutchcraft	2018-12-12 11:37:03	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 1

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

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

PERMITTEE NAME/ADDRESS

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

MO0103241			001 A		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2018	11	01	2018	11	30

FROM TO

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 (81011)	REPORTD	*****	*****	*****	*****	98.6	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	2.5	2.1	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	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.

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Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft	Gary F Hutchcraft	2018-12-12 11:37:03	
TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 2

PERMITTEE NAME/ADDRESS

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

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

4178914300
4178914399 (fax)

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

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2018	11	01	2018	11	30

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

Parameter	REPORTED	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	*****	*****		275	*****	275	Monthly	Grab
Sludge Type: Instream Monitoring	REQUIREMENT	*****		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	
Gary F Hutchcraft	Gary F Hutchcraft	573-365-0455	
TYPED OR PRINTED NAME	SIGNATURE	2018-12-12 11:37:03	
		Date	

Page 3

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR NOVEMBER 2018
month

DATE	DTHL	PLANT EFFLUENT										PLANT EFFLUENT AND EFFLUENT AND EFFLUENT										WASTEWATER TO RIVERS	
		Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)
1	DH	0.182	1.172	1.354																			
2	DH	0.188	1.104	1.272																			
3	DH	0.226	1.387	1.613																			
4	DH	0.310	1.448	1.658																			
5	DH	0.175	0.982	1.157																			
6	DH	0.235	1.426	1.661																			
7	DH	0.179	1.143	1.322																			
8	DH	0.184	1.197	1.381																			
9	DH	0.188	1.016	1.154																			
10	DH	0.183	1.212	1.395																			
11	DH	0.170	1.151	1.321																			
12	DH	0.168	1.107	1.267																			
13	DH	0.154	1.029	1.183																			
14	DH	0.142	1.004	1.146																			
15	DH	0.151	0.971	1.122																			
16	DH	0.153	0.991	1.144																			
17	DH	0.157	1.099	1.256																			
18	DH	0.174	1.072	1.246																			
19	DH	0.158	0.983	1.141																			
20	DH	0.151	1.055	1.206																			
21	DH	0.140	0.946	1.085																			
22	DH	0.150	1.068	1.218																			
23	DH	0.132	1.022	1.154																			
24	DH	0.193	1.256	1.449																			
25	DH	0.185	1.164	1.349																			
26	DH	0.165	1.038	1.203																			
27	DH	0.147	0.989	1.125																			
28	DH	0.147	0.928	1.075																			
29	DH	0.149	0.961	1.110																			
30	DH	0.142	1.000	1.142																			
TOTAL		5.089	33.321	38.310	952	1011	993	794	808	1046	168.4	220.2	451										
MAX		0.310	1.748	2.058	205	265	270	218	218	324	38.3	7.6	18.7										
MIN		0.132	0.928	1.060	178	163	160	122	110	160	27.9	7.17	12.6										
AVG		0.170	1.107	1.277	190	202	199	159	162	209	33.7	7.34	15.0										

Use following abbreviations F=rain, S=snow, C=clear, PC=partly cloudy

Prepared by: GH, JH, DH

Approved by: GH

Date

12-12-2018

OUR
MISSION

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management and financial oversight, and ensured regulatory compliance.

**Alliance Water
Resources,
Inc.**

**206 S. Keene
St.
Columbia, MO
65201**

(573)874-8080



REPORT OF OPERATIONS

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

Month of December 2018

Submitted by Alliance Water Resources, Inc. for the

January 2019

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	2.3	2.4	N/A	0		0.49	< 5.0	1.1
Peak Day	2.5	2.9	7.9	0		1.90	< 5.0	1.1
Percent Removal	98.9	98.9	N/A	N/A		N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		2.2	10	4.0
Weekly Average	45	45		630				
Daily Max						11.5	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.212 MGD or 40% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. 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 64164 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 14 tanker loads of bio-solids during the month equivalent to a total of 51,800 gallons and 14,688 pounds dry weight solids.

515,143 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 382,500 gallons with a level of 6.5 feet in Tank 1 and 2.0 feet in Tank 2.

WASTEHAULERS

The plant received 22 loads of septage during the month totaling 55,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We pulled all UV banks, cleaned them and are stored in the UV room ready for the next disinfection season.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- The contractor that was awarded the door replacement contract back in September finally received the doors and got them installed on December 10th.
- We came in on the 11th of December and found the pista grit system wasn't working. We troubleshooted it and found a faulty breaker. We found a one locally and had it back in service the next day.
- When servicing the heaters in the non-pot and RAS valve rooms we noticed that they were not working properly so we called in a service tech and they said that they needed replaced. We communicated this to Nick & Matt and they recommended to purchase new ones and install them in-house. We purchased replacement units and will install them ASAP.
- The decant pump repair that was approved at November's Joint Sewer Board meeting needed some additional parts and machine work which was around two thirds of what a new pump would cost. I contacted Nick & Matt and informed them of the findings and they told me to go ahead and bid for a replacement pump. We received 4 quotes/bids and JCI was awarded the bid and was ordered on the 20th of December with a 4 to 6-week lead time.
- The RAS flow meter has been malfunctioning during really cold snaps. We have contacted the manufacturer and they think it might be repairable but won't know for sure until we pull it and send it to them and are planning on doing so ASAP.
- The heater on the sludge truck quit working so we took it to Roemer's and had it fixed. While he had it, we went ahead and had him service the truck also.

SAFETY

- We conducted our monthly routine Safety Meeting on Hazardous Communication on the 13th of December.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 7th of January.

MISCELLANEOUS AND RECOMMENDATIONS

- We would like to Thank the City of Lake Ozark for sending their service truck and crew to assist us in the removal of the sandblast sand out of clarifier #3. Many Thanks!
- The paint contractor that's doing the clarifier paint project requested a 90-day extension of completion on the 27th of December. We forwarded it on to Nick and Matt and the request was granted. (see attachment)
- The updated annual ERP and plant inventory are attached, please review and let us know of any needed changes.
- Alliance would like to remind all Joint Sewer Board members and guest that we are having our annual new year get together at Wobbly Boots BBQ in Osage Beach right after the Joint Sewer Board meeting this month.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 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-Dec	1.75	0.313	1.681	1.994	15.7	84.3						
2-Dec	0	0.314	1.399	1.713	18.3	81.7						
3-Dec	0	0.195	0.981	1.176	16.6	83.4						
4-Dec	0	0.160	0.951	1.111	14.4	85.6						
5-Dec	0.1	0.150	0.890	1.040	14.4	85.6						
6-Dec	0	0.145	0.969	1.114	13.0	87.0						
7-Dec	0	0.140	0.932	1.072	13.1	86.9	188	218	188	154	136	158
8-Dec	0	0.143	0.965	1.108	12.9	87.1						
9-Dec	0	0.182	0.992	1.174	15.5	84.5						
10-Dec	0	0.166	0.957	1.123	14.8	85.2						
11-Dec	0	0.134	0.930	1.064	12.6	87.4						
12-Dec	0	0.132	0.951	1.083	12.2	87.8						
13-Dec	0	0.133	0.968	1.101	12.1	87.9						
14-Dec	0.5	0.157	1.082	1.239	12.7	87.3	180	223	248	118	180	288
15-Dec	0.0	0.141	0.965	1.106	12.7	87.3						
16-Dec	0	0.148	1.023	1.171	12.6	87.4						
17-Dec	0	0.136	1.002	1.138	12.0	88.0						
18-Dec	0	0.128	0.965	1.093	11.7	88.3						
19-Dec	0	0.125	0.918	1.043	12.0	88.0						
20-Dec	0.25	0.131	0.987	1.118	11.7	88.3						
21-Dec	0	0.147	0.916	1.063	13.8	86.2	190	168	200	166	128	194
22-Dec	0	0.136	0.966	1.102	12.3	87.7						
23-Dec	0	0.128	0.969	1.097	11.7	88.3						
24-Dec	0	0.131	0.886	1.017	12.9	87.1						
25-Dec	0	0.112	0.876	0.988	11.3	88.7						
26-Dec	0	0.106	0.802	0.908	11.7	88.3						
27-Dec	1.3	0.195	1.367	1.562	12.5	87.5						
28-Dec	0	0.265	1.457	1.722	15.4	84.6	198	223	183	166	208	216
29-Dec	0	0.185	1.093	1.278	14.5	85.5						
30-Dec	0	0.179	1.070	1.249	14.3	85.7						
31-Dec	2.4	0.266	1.542	1.808	14.7	85.3						
SUM	6.3	5.123	32.452	37.575								
AVG		0.165	1.047	1.212	14	86	189	208	205	151	163	214
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

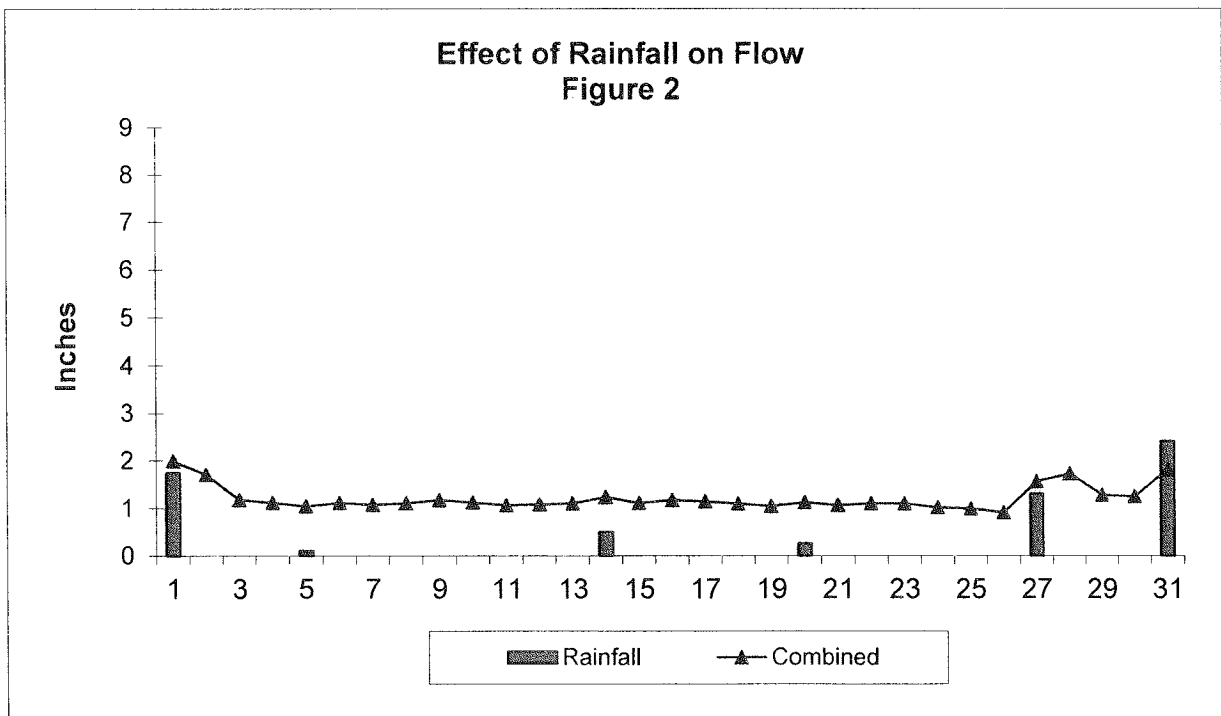
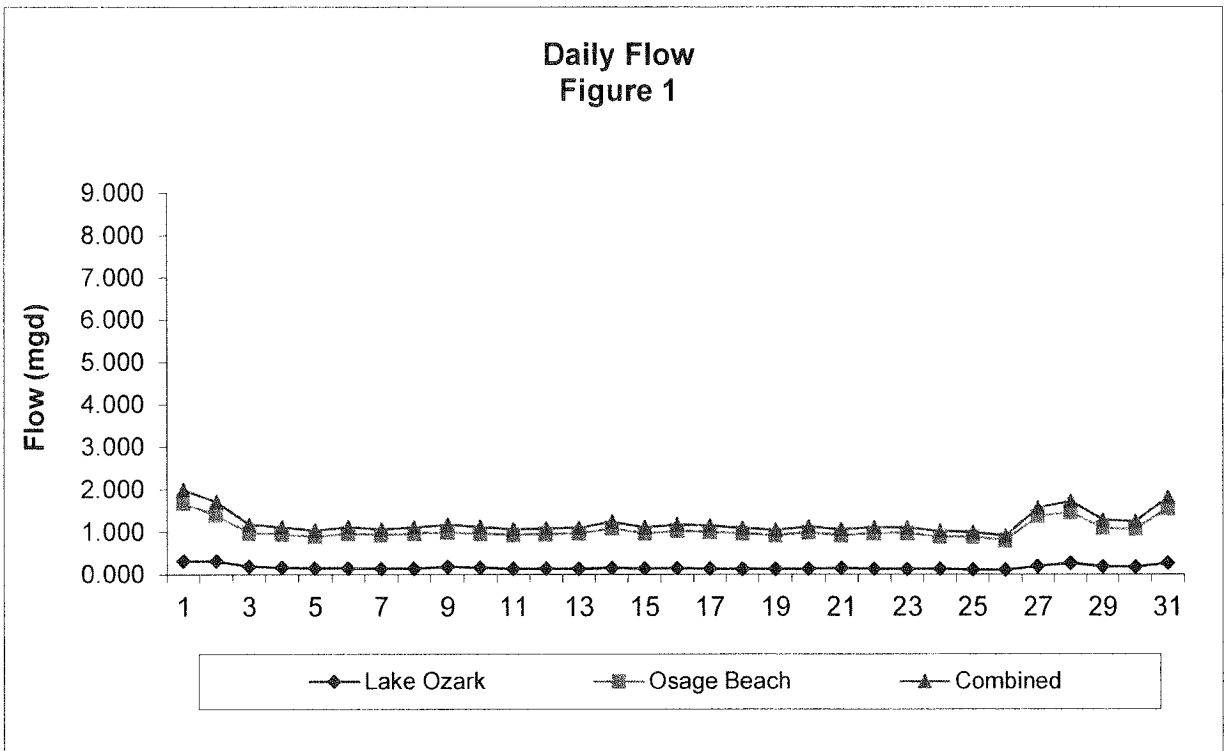
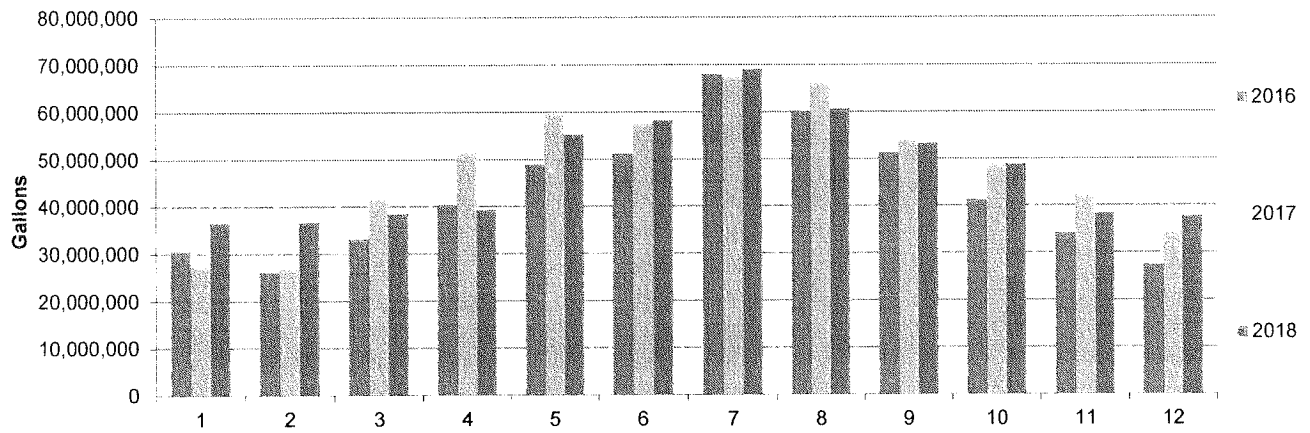


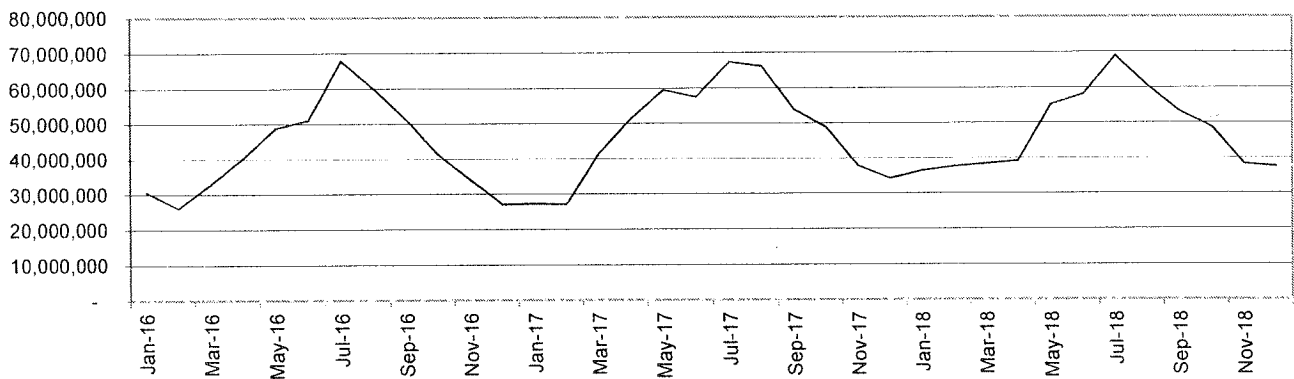
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%

Monthly Influent Flow
Figure 3A

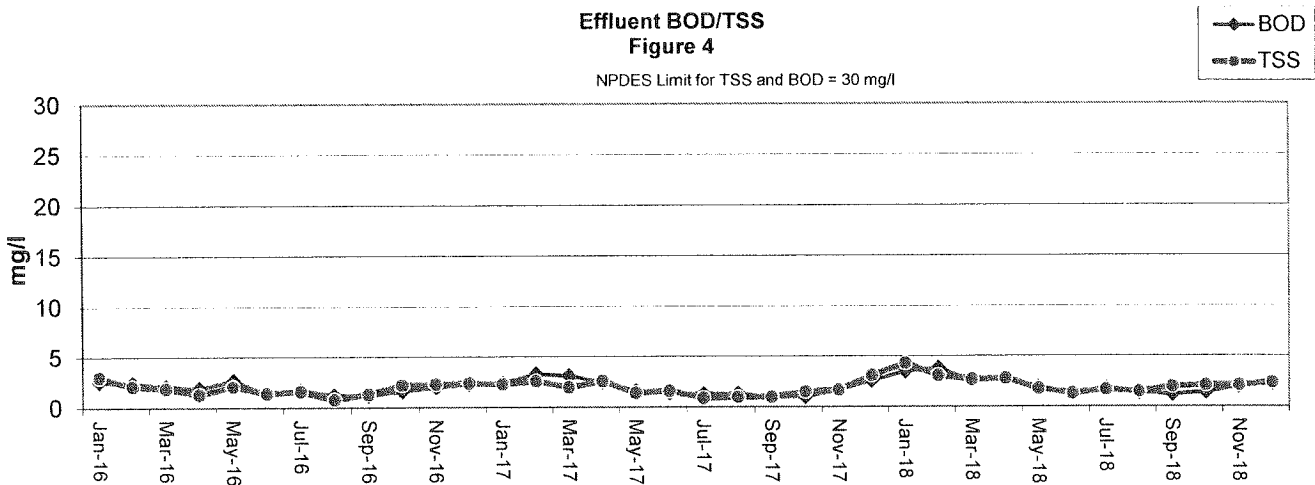


Monthly Influent Flow
Figure 3B

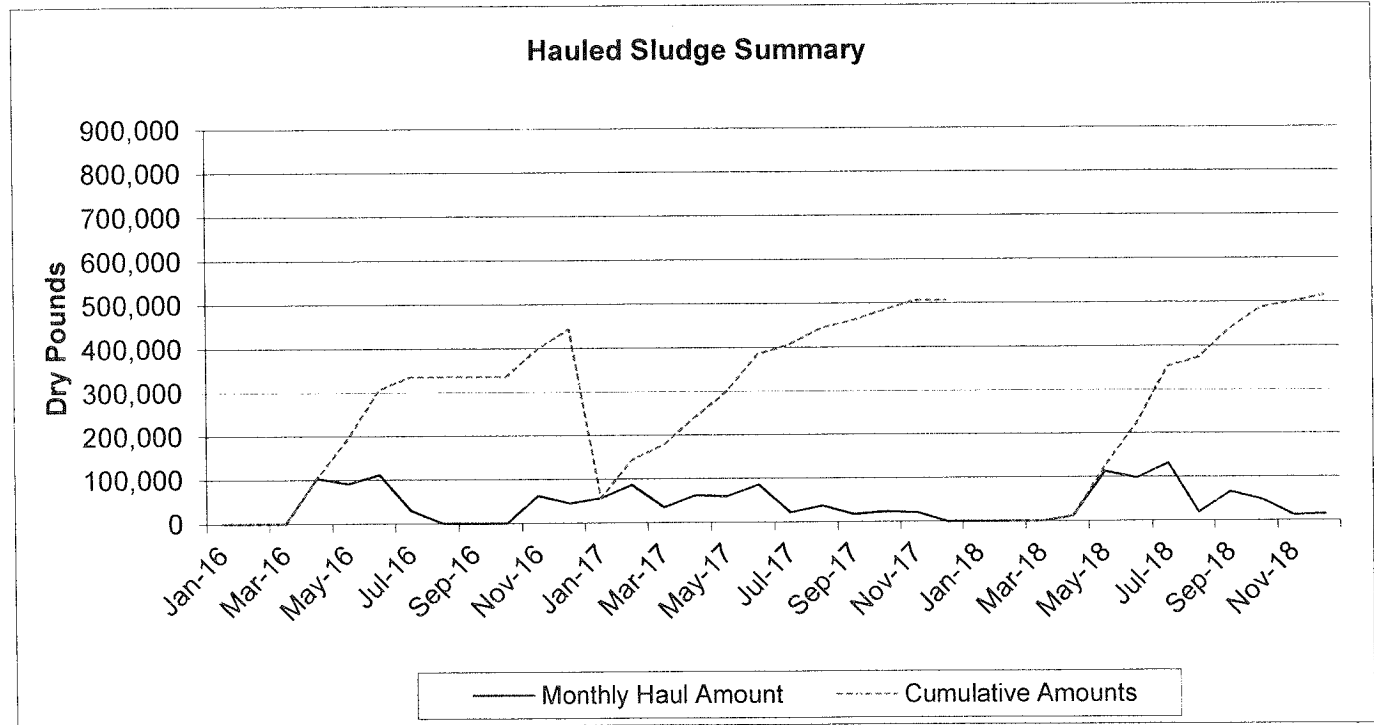
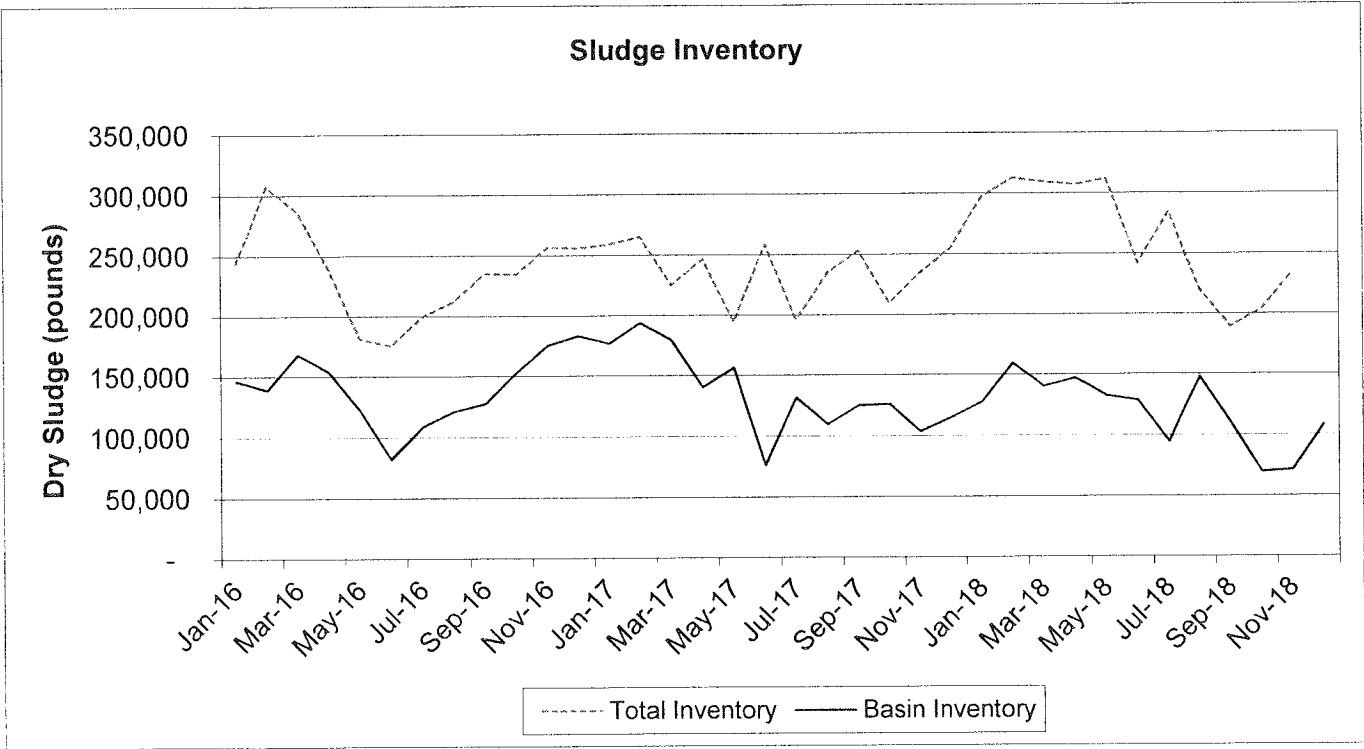


Effluent BOD/TSS
Figure 4

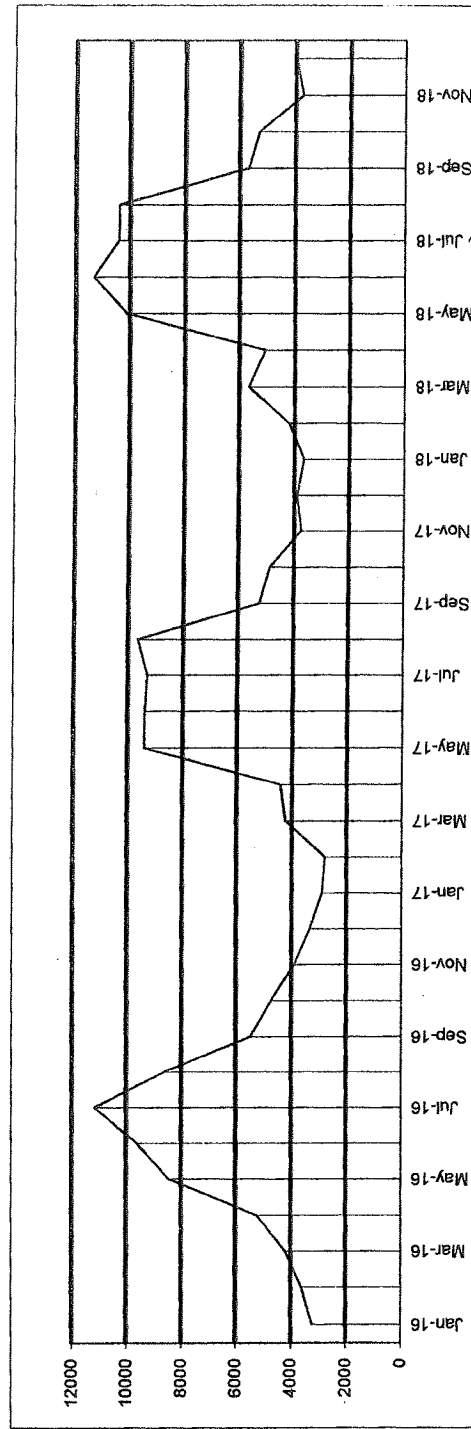
NPDES Limit for TSS and BOD = 30 mg/l



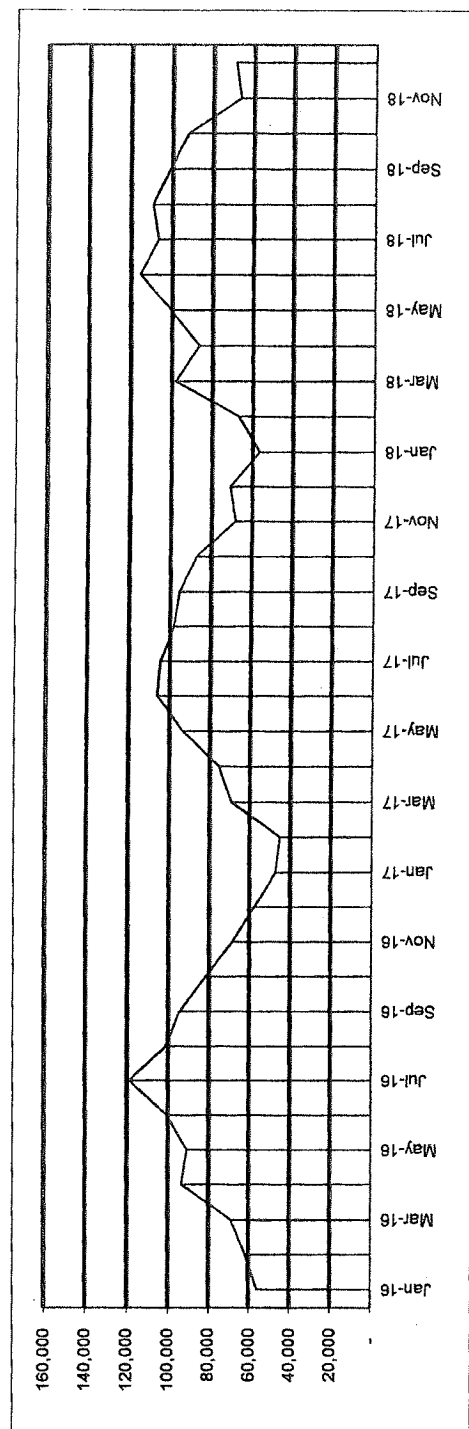
	Basin Depths				# Dry	Blanket Depths				MLSS Inventory				Blanket and MLSS Inventory				Total Dry	
	Tank #1	Tank #2	AB #1	Basin Gallons		Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons			
Jan-16	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.0	3,760	3,610	3,617,762	111,184	0.00369	257,551	22	55,000			
Feb-16	6.0	3.5	0.0	427,500	139,049	1.0	1.0	0.0	3,210	3,730	3,635,524	105,211	0.00347	244,260	6	15,000			
Mar-16	6.0	5.5	0.0	517,500	168,322	2.0	2.0	1.0	4,670	4,320	3,714,476	139,249	0.0045	307,571	44	110,000			
Apr-16	5.5	5.0	0.0	472,500	153,914	2.5	2.5	1.0	5,540	3,180	3,732,238	132,600	0.00426	286,515	6	15,000			
May-16	5.5	3.0	0.0	382,500	122,423	1.0	5.0	1.0	3,770	3,670	3,750,000	116,343	0.00372	238,766	40	100,000			
Jun-16	6.0	0.0	0.0	270,000	82,339	1.5	1.0	1.5	2,570	3,840	3,709,547	99,155	0.00321	181,494	30	75,000			
Jul-16	4.5	4.0	0.0	382,500	108,577	1.0	1.0	1.0	1,740	2,630	3,678,962	67,041	0.00219	175,618	46	111,000			
Aug-16	6.0	3.5	0.0	427,500	121,222	1.0	1.0	1.0	2,880	2,220	3,678,962	78,240	0.00255	199,462	43	96,000			
Sep-16	5.0	5.0	0.0	450,000	127,602	1.0	1.0	1.0	1,740	3,600	3,678,962	84,223	0.00275	211,825	42	94,500			
Oct-16	6.5	5.5	0.0	540,000	153,122	1.0	1.0	1.0	-	4,700	1,861,190	72,955	0.0047	235,045	35	75,500			
Nov-16	7.5	4.5	0.0	540,000	175,295	1.0	0.0	1.5	-	5,080	1,861,190	78,853	0.00508	234,497	11	20,000			
Dec-16	6.0	6.0	0.0	540,000	183,393	1.0	0.0	1.0	-	4,700	1,861,190	72,955	0.0047	256,348	26	54,500			
Jan-17	5.5	7.0	0.0	562,500	193,720	1.5	0.0	2.0	-	4,090	1,913,499	65,271	0.00409	255,986	15	37,500			
Feb-17	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,896,714	85,420	0.0054	258,991	5	12,500			
Mar-17	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	265,019	41	102,500			
Apr-17	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00285	242,939	8	20,000			
May-17	2.5	3.0	0.0	247,500	76,457	3.0	2.5	1.5	4,530	3,000	3,762,833	118,153	0.00377	246,426	45	116,000			
Jun-17	4.5	5.5	0.0	450,000	131,540	1.0	1.0	0.5	4,670	3,650	3,657,238	126,886	0.00416	194,610	33	82,500			
Jul-17	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	258,426	43	107,500			
Aug-17	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	196,173	41	103,500			
Sep-17	8.0	1.0	0.0	405,000	126,158	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	234,892	48	122,000			
Oct-17	4.5	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,060	3,666,119	127,025	0.00415	253,182	10	23,500			
Nov-17	6.0	3.0	0.0	405,000	114,842	1.0	1.5	0.5	3,680	4,120	3,687,833	119,950	0.00348	209,832	7	17,500			
Dec-17	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.0039	234,792	7	17,500			
Jan-18	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	255,080	5	12,500			
Feb-18	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	297,113	16	40,000			
Mar-18	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	312,769	6	15,000			
Apr-18	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	309,655	8	20,000			
May-18	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	307,321	10	24,500			
Jun-18	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	312,100	38	95,000			
Jul-18	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	242,026	42	107,000			
Aug-18	3.0	4.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	284,531	30	75,000			
Sep-18	4.5	2.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	220,132	45	113,500			
Oct-18	3.0	1.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	189,409	21	59,500			
Nov-18	2.5	2.5	0.0	382,500	108,459	1.0	1.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	203,809	8	21,500			
Dec-18	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494	22	55,000			



Electric Cost



Kilowatts Used





**MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY**

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

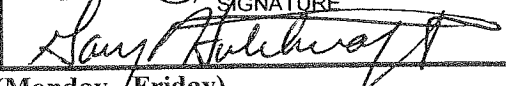
NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Dec-18		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	7.4			13.1	2.367	7.5				5.0		11.8		
2	7.3			12.5	2.025	7.5				5.2		12.0		
3	7.4			12.7	1.474	7.8				6.3		11.2		
4	7.5			12.7	1.469	7.8				6.3		10.4		
5	7.3			13.1	1.299	7.8			0.01	6.8		10.2		
6	7.5			13.3	1.459	7.9				7.4		10.5		
7	7.4	188	158	12.7	1.454	7.9	2.5	1.9		7.8		9.7	98.7	98.8
8	7.4			11.9	1.502	7.7				7.6		8.8		
9	7.2			12.8	1.545	7.6				9.4		9.4		
10	7.2			12.2	1.473	7.7				7.2		8.4		
11	7.2			12.3	1.384	7.6				7.6		8.1		
12	7.3			11.6	1.337	7.6				6.8		9.1		
13	7.3			12.9	1.375	7.7			0.02	7.5		10.4		
14	7.2	248	288	13.1	1.564	7.7	1.9	2.2		5.6		10.9	99.2	99.2
15	6.8			12.8	1.397	7.6				8.2		9.9		
16	7.3			10.9	1.496	7.7				8.0		9.3		
17	7.4			11.4	1.427	7.8				7.1		9.7		
18	7.4			11.5	1.401	7.6				6.8		9.6		
19	7.3			12.9	1.315	7.7				7.4		10.0		
20	7.2			12.8	1.409	7.6			0.02	6.6		11.2		
21	7.2	200	194	12.6	1.374	7.6	2.1	2.5		5.3		10.1	99.0	98.7
22	7.3			12.5	1.345	7.8				8.8		9.5		
23	7.3			12.8	1.402	7.8				6.9		9.8		
24	7.3			11.4	1.300	7.8				7.8		8.9		
25	7.3			13.2	1.262	7.8				8.0		9.8		
26	7.4			12.7	1.098	7.7				6.5		10.2		
27	7.3			13.3	1.927	7.7			1.9	5.0		11.6		
28	7.3	183	216	12.8	2.006	7.9	2.5	2.9		6.1		10.7	98.6	98.7
29	7.3			10.4	1.672	7.7				6.7		9.4		
30	7.5			10.8	1.623	7.8				7.4		9.1		
31	7.4			10.5	2.233	7.7				6.7		9.4		
Total					47.414									
Avg		205	214	12	1.529		2.3	2.4	0.49	7.0	0.0	10.0	98.9	98.9
Min	6.8	183	158	10	1.098	7.5	1.9	1.9	0.01	5.0	0.0	8.1	98.6	98.7
Max	7.5	248	288	13	2.367	7.9	2.5	2.9	1.90	9.4	0.0	12.0	99.2	99.2

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4	< 5.0	1.1	217	256						
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	1.1	217	256						
Avg	< 5.0	1.1	217	256						
Min	< 5.0	1.1	217	256						
Max	< 5.0	1.1	217	256						

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1		2.0	3,890	660	11.7	1.6	3,610	520	11.9	48	1.75	7:30
2		2.8	4,570	760	11.7	1.8	4,220	710	12.0	41	0	7:30
3		3.0	4,470	780	10.6	3.4	4,250	740	11.0	36	0	7:30
4		3.4	4,340	750	10.2	3.4	4,500	790	10.5	32	0	7:30
5	6,326	5.2	4,510	750	9.7	3.3	3,940	680	10.0	32	0.1	7:30
6		4.8	4,270	800	11.0	5.0	3,840	660	11.0	37	0	7:30
7		4.3	4,120	770	9.8	4.8	3,650	750	10.3	29	0	7:30
8		6.0	3,630	770	9.2	5.7	4,110	780	9.5	28	0	7:30
9		6.9	4,840	850	9.0	7.0	3,830	730	9.7	20	0	7:30
10		5.7	4,810	820	8.0	5.8	3,790	730	8.5	21	0	7:30
11	3,580	4.4	4,870	780	7.8	4.9	4,090	700	8.4	26	0	7:30
12	4,783	4.0	4,580	780	9.2	4.6	4,160	700	9.4	40	0	7:30
13		4.2	3,910	720	10.4	4.0	4,530	780	10.7	49	0	7:30
14		3.0	4,240	750	10.9	2.1	4,190	690	11.3	42	0.5	7:30
15		5.1	5,030	800	9.8	5.0	3,990	650	10.0	37	0	7:30
16		4.2	4,530	760	9.1	5.2	4,390	730	9.5	30	0	7:30
17		3.4	4,340	730	9.5	2.8	4,670	750	10.0	30	0	7:30
18		4.7	4,160	720	9.7	3.0	4,730	780	10.0	29	0	7:30
19		4.2	3,820	740	9.9	2.7	4,180	700	10.4	36	0	7:30
20		2.6	4,660	750	11.0	2.1	3,870	660	11.4	45	0.25	7:30
21		1.9	4,580	780	10.3	2.6	4,030	670	10.8	35	0	7:30
22		4.4	4,590	740	9.8	4.6	3,690	620	10.3	31	0	7:30
23		4.1	4,470	690	10.5	3.9	4,200	680	10.7	37	0	7:30
24		5.0	4,210	730	9.0	4.8	4,200	710	9.5	26	0	7:30
25		5.2	4,350	710	10.3	5.2	4,360	700	10.5	41	0	7:30
26		4.3	3,920	630	10.4	4.2	4,370	730	10.7	40	0	7:30
27		2.3	3,580	580	12.2	2.5	3,380	560	12.2	52	1.3	7:30
28		2.7	4,660	740	11.6	2.3	3,720	510	11.8	32	0	7:30
29		3.3	4,660	740	9.1	4.5	3,790	590	9.3	28	0	7:30
30		3.4	4,260	710	8.6	4.2	4,040	650	8.6	25	0	7:30
31		4.3	4,120	560	9.5	3.3	3,420	550	9.8	40	2.4	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
William Henson		(573)365-0455	1/7/2019
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	1/7/2019

***Required Daily (Monday -Friday)**

****Required 1/week**

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 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					
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FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	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	*****	*****	*****	2.5	2.3	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	*****	*****	*****	*****	98.6	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.367	1.529	*****	*****	*****	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	*****	*****	1.9	*****	0.49	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Daily Maximum : 11.5	*****	Monthly Average : 2.2	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (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	*****	*****	7.5	*****	7.9	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Minimum : 6.5	*****	Maximum : 9.0	Weekly	Grab
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****	1.1	*****	1.1	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Daily Maximum : 9.1	*****	Monthly Average : 3.6	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		7305	
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		573-365-0455	
TYPED OR PRINTED NAME		SIGNATURE	
		2019-01-07 14:34:19	
		Date	

Page 1

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 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					
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FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	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 (81011)	REPORTD	*****	*****	*****	98.7	*****	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	2.9	2.4	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		7305	
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		573-365-0455	
TYPED OR PRINTED NAME		SIGNATURE	
		2019-01-07 14:34:19	
		Date	

Page 2

PERMITTEE NAME/ADDRESS

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

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

4178914300
4178914399 (fax)

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

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

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

Parameter	FROM	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTD	*****		256		Monthly	Grab	
Stage Type: Instream Monitoring	REQRMT	*****		Daily Maximum Monitoring Required		Monthly	Grab	
				*****		Monthly Average Monitoring Required		

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		573-365-0455	
Gary F Hutchcraft		2019-01-07 14:34:19	
TYPED OR PRINTED NAME		Date	
Gary F Hutchcraft			
SIGNATURE			

Page 3

FOR DECEMBER 2018

Prepared by: GH, JH, DH Approved by: GH Date: 1/7/2019

Prepared by: GH, JH, DH

CHANGE ORDER NO.1

December 27, 2018

Landco Enterprises, LLC
P.O. Box 275
High Ridge, MO 63049

Reference: Lake Ozark / Osage Beach Joint Sewer Board
Sandblast & Paint Clarifier #3 Project

Dear Mr. Tamborski:

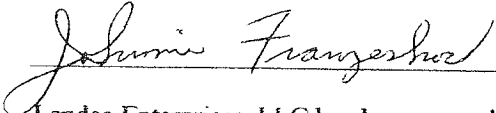
You are hereby granted a time extension of 90 calendar days for the Sandblast & Paint Clarifier #3 Project. The revised Contract Completion Date is hereby moved from December 31, 2018 to March 31, 2019.

Your Contract Amount is hereby revised as indicated:

Original Contract Amount		\$68,700.00
Change Order No.1	NO CHANGE	\$0.00
Revised Contract Amount		\$68,700.00

Sincerely,

Mayor Franzekos
Chairman



Landco Enterprises, LLC hereby accepts the terms and conditions of Change Order No. 1.



Landco Enterprises, LLC

1/8/19

Date

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019**

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
1	1 - Craftsman 3 drawer tool box	
2	1 - Craftsman 5 drawer tool box	
3	1 - Assortment SAE Allen wrenches	
4	1 - Assortment Metric Allen wrenches	
5	1 - 3/8 SAE T Allen wrench	
6	1 - Set 3/8 Allen wrench sockets 1/8 - 1/2	
7	1 - Set SAE & Metric nutdrivers in tool bag	
8	7 - SAE nutdrivers 3/16 - 1/2	
9	7 - Metric nutdrivers 5mm - 11mm	
10	5 - Torx screwdriver assorted sizes	
11	1 - Assortment of straight & Philips screwdrivers	
12	1 - 1/2" straight screwdriver socket	
13	1 - 1/4" deep socket set 4mm - 14mm	
14	1 - 1/4" deep socket set 3/16 - 1/2	
15	1 - 1/4" shallow socket set 4mm - 13mm	
16	1 - 1/4" shallow socket set 5/32 - 1/2 w/ 2 & 3" extensions	
17	1 - 1/4" Ratchet	
18	1 - 40 piece 1/4 & 3/8 socket set, in RAS basement	
19	1 - 3/8" X 1/4" socket adapter	
20	1 - 3/8" deep & shallow socket set 3/8 - 3/4	
21	1 - 3/8" deep socket set 9mm - 19mm	
22	1 - 3/8" Craftsman socket set 3/8 - 13/16	
23	2 - 3/8" 1 1/2" extensions & 1 - 6" ext.	
24	1 - 3/8" Ratchet	
25	4 - 3/8" 6 point sockets 1/4 - 7/16	
26	2 - 3/8" spark plug sockets 5/8 & 13/16	
27	2 - 1/2" Ratchets & 1 set 1/2" extensions 2, 3 & 6"	
28	1 - 1/2" deep socket set 3/8 - 13/16	
29	1 - 1/2" socket shallow socket set 9mm - 21mm	
30	1 - 1/2" socket shallow socket set 7/16 - 1 1/4	
31	6 - KD brand 3/4" sockets, 1 3/8, 1 7/16, 1 1/2, 1 5/8, 1 13/16 & 2 3/4"	
32	1 - 3/4" Breaker bar & 16" extension, True craft	
33	1 - 10 piece ignition wrench set 4mm - 13mm	
34	1 - 10 piece ignition wrench set 5/32 - 7/16	
35	2 - Boxed end wrench's 1/2-9/16 & 5/8-11/16	
36	3 - 3/8, 4 - 7/16, 2 - 11/16, 2 - 3/4, 2 - 13/16, 2 - 7/8 combination wrenches	
37	4 - 15/16, 4 - 1", 3 - 1 1/16, 5 - 1 1/4 & 4 - 1 1/8 comb. wrenches	
38	3 - open end wrenches 7/16-17/32, 5/8-11/16, & 3/4-7/8	
39	1 - Set pm comb. Wrench's 1/4 thru 7/8 in pouch	
40	3 - snap ring pliers	
41	2 - pair channel lock pliers, 1 blue handle & 1 black	
42	2 - pair electrical channel lock pliers, 6 & 10"	
43	1 - set of left handed drill bits	

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
44	6 - electrical screwdrivers, 3 straight & 3 philips head	
45	2 - wire strippers	
46	1 - pair lineman pliers	
47	1 - pair needle nose pliers	
48	1 - pair side cutters, 6"	
49	3 - 10" Vise grip pliers, 2 curved jaw & 1 straight	
50	2 - 6" Vise grip pliers, 1 curved & 1 needle jaw	
51	1 - yellow handle tin snips	
52	1 - 12" crescent wrench, Craftsman	
53	3 - pipe wrenches, 18", 24", & 36"	
54	1 - 10" Stanley level	
55	1 - 24" Craftsman level	
56	2 - 25' Task Force tape measures	
57	2 - 6" pocket metal rules	
58	1 - points file	
59	1 - file assortment	
60	1 - rasp file	
61	2 - Concrete trowel	
62	1 - feeler gauge	
63	1 - tool bag	
64	1 - ice pick	
65	1 - punch & chisel set	
66	1 - 2" C clamp & 2 - 4" C clamps	
67	2 - putty knives	
68	1 - parts brush	
69	1 - ball peen hammer	
70	1 - 4lb shop hammer	
71	1 - claw hammer	
72	1 - 10 lb sledge hammer	
73	1 - rubber mallet	
74	1 - hacksaw	
75	3 - wire brushes	
76	1 - tire gauge	
77	1 - 6" square	
78	2 - rag pullers	
79	1 - crow bar	
80	1 - garden rake	
81	1 - round point shovel	
82	1 - flat shovel	
83	1 - 10lb straight bar	
84	1 - pick	
85	1 - anti freeze tester	
86	1 - flat bar	

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019**

TOOLS

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
87	1 - Craftsman 28 pc. tap & die set	
88	1 - Black & Decker drill & driver set	
89	1 - 7" carbide masonry drill bit set 3/16 - 3/4	
90	3 - masonry bits, 1/4, 5/16 & 3/8	
91	1 - Black & Decker metal drill bit set, 1/16 to 1/2 & HS bits assorted sizes	
92	2 - gear pullers, 1 large & 1 small	
93	1 - Black & Decker 3/8 variable speed drill	
94	1 - mini copper tubing cutter	
95	1 - PVC cutter	
97	1 - 1/2" Electric Impact Wrench	
98	1 - Sandblaster w/ 24ft of hose & 2 bags of blasting material	
99	1 - Hitachi hammer drill*	

X

SLUDGE TRUCK TOOLS

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

MISCELLANEOUS EQUIPMENT

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

X

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019

MISCELLANEOUS EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
128	1 - 4' step ladder, fiberglass	
129	1 - 6' step ladder, fiberglass	
130	10' stepladder, wood	
131	24' 300 lb rated extension ladder, aluminum	
132	24' 300 lb. rated extension ladder, fiberglass	
133	2 - set of plastic saw horses	
134	1 - 6"x 10' suction hoses	
135	2 - 6" x 25' suction hose	
136	1 - 4" x 60' suction hose	
137	1 - 4" x 15' discharge hose @ septic unloading station	
138	2 - Schumacher battery chargers, 1 model SE-82-6 & 1 model XC103-CA	
139	1 - 100' extension cord	
140	1 - 50' extension cord	
141	1 - 1 gallon plastic gas cans	
142	2 - 5 gallon steel safety gas cans	
143	1 - misc. log chains, headwork's tool room	
144	5 - 50'x1 1/2" fire hoses with 2 nozzles*	
145	5 - Garden hoses	
146	1 - mechanic creeper	
147	2 - Craftsman gas leaf blowers, older one not running	
148	1 - Craftsman 4 cycle weed eater	
149	1 - Stihl weed eater	
150	1 - Kawasaki weed eater	
151	1 - cherry picker (engine hoist)	
152	1 - 9 gallon portable air tank	
153	1 - Campbell Hausfield 26 gallon air compressor	
154	1 - CH air drill	
155	1 - CH air ratchet	
156	1 - CH air grinder	
157	1 - CH air impact wrench	
158	1 - CH air chisel w/4 chisels	
159	1 - air tire inflator	
160	1 - Pro-Arc oxy-acc torch kit & tanks	
161	1 - Pro-Force 33 paint sprayer	
162	1 - 15 gal 12 volt portable sprayer	
163	1 - 60gal Ingersoll Rand in UV building	
164	1 - 3 ea. grease gun	
165	1 - Cowhbian 5" multi bench vise	
166	3 - shop vac's	
167	2 - drum dollies	
168	1 - Commercial Elec. Amp meter, HDSA 500	
169	1 - Commercial Elec. Multi meter, HDM 4100	
170	2 - insulated fuse pullers, 1 large & 1 small	

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019**

MISCELLANEOUS EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
171	1 - GB circuit tester	
172	1 - 3/8 hammer drill	
173	1 - Skil 14.4 drill kit, w/ battery & charger	
174	1 - Black & Decker bench grinder	
175	1 - Black & Decker hand grinder, 4 1/2"	
176	1 - 115V 3/8 VSR Drill/ Driver	
177	1 - propane torch, elec. Start	
178	1 - strap 1 ton come along	
179	2 - chain come alongs, 1 ton & 3 ton	
180	1 - cable come along, 1 ton	
181	1 - 2 ton floor jack	
182	1 - 12 ton high lift jack	
183	2 - yellow air hoses	
184	1 - 100gal. Portable Diesel fuel tank	
185	1 - Fluke T5-1000 Volt/Amp meter	
186	1 - wheel barrow	
187	1 - garden cart	
188	1 - Garden power 65ft. 5/8" Auto-Retractable Garden Hose reel*	X
189	1 - portable hand work light	
190	1 - portable work light stand w/ dual mounted lights	
191	4 - Strong Arm electric winches - 3 for clarifier scum baskets & 1 for pulling lift station pumps	
192	1 - AMT 3" trash pump w/wheel kit	
193	1 - 3" 50ft & 1 - 30ft suction/discharge hose w/couplings	
194	1 - North Star 3000 PSI Steam and Hot Water Pressure Washer	
195	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
196	1 - Chapin Homepro backpack sprayer	

OFFICE INVENTORY

196	1 - wooden desk
197	1 - metal desk
198	4 - Office chairs
199	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer
200	1 - 3 shelf bookshelf
201	1 - PC , w, speaker in monitor, keyboard, and surge arrest---DELL
202	1 - MFC-7360N Brother copier / printer
203	1 - conference table
204	27 - folding steel chairs
205	3 - Phones (cradle style)
206	1 - Fellowes paper shredder
207	1 - Bissell vacuum cleaner
208	1 - Emerson TV / VCR Combo (for training)
209	1 - Emerson microwave
210	1 - Magic chef refrigerator

Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019

211 1 - Culligan water cooler * & X = New 2018

CONSUMABLE MATERIALS

212 2 - 500 Gallon propane tanks, w/ 650 gallons as of 1/7/19

VEHICLE'S

213 1 - 2018 Ford F-250 w/Knapplied snow blade vin#1FTBF2B66JEC64283* **X**

214 1 - 1994 Volvo White GMC Sludge Truck vin# 4V2JCBE75R833094

215 1 - 1985 GMC 4 Wheel Drive Field Truck vin# 1GDL7D1YDV529996

216 1 - Kabota ZG123S 48" Zero-Turn Mower

LABORATORY EQUIPMENT

Item No. Quantity & Item

217 1 - OHAUS adventurer analytical balance

218 1 - Orion & 1 no name brand bench top electrode arms

219 1 - USA Bluebook electric stirrer

220 3 - Isco Auto samplers, 1 - NI-CAD batteries, 1 small & 1 larger charger

221 1 - Isco Auto sampler pump

222 1 - Hach Sension 2 ammonia/ph meter and probes

223 1 - Hach HQ10 DO meter & probe, not in use, obsolete

224 1 - Hach HQ411D pH/mv meter & probe with stand

225 1 - Allied stirrer and hot plate

226 1 - Vector spotlight, for discharging Isco batteries

227 2 - VWR ASTM certified / calibrated thermometers

228 2 - Nalgene desiccators

229 1 - muffle furnace-Therolyne

230 1 - vacuum pump-Fisher

231 1 - sterilizer-Electric Steno Clave

232 1 - centrifuge-IEC centrifuge, not in use

233 1 - Incubator-Fisher ISO temp

234 1 - drying oven-Fisher ISO temp oven

235 1 - portable D.O. meter-YSI 550-A

236 1 - BOD meter & probe--YSI 5905, not in use, obsolete

237 1 - BOD Incubator- Fisher low temp model 307

238 1 - microscope-Micromaster

239 1 - water still-Corning Mega-Pure System MP1, not in use

240 1 - Cartridge for still- Corning high cap (used), not in use

241 1 - Lab refrigerator-Marvel Division

242 2 - timers-West Bend

243 1 - Hanna portable pH meter

244 2 - Hach HQ40D meters, one with LBOD probe & 1 w/ Rugged LDO probe

245 1 - Hach Distillation Glassware set for Ammonia

246 1 - Thermo Hot plate for distillation

247 2 - Igloo Ice Maker for Samplers *

**Lake Ozark / Osage Beach Joint Wastewater Plant
INVENTORY LIST
January 2019**

SAFETY EQUIPMENT

<u>Item No.</u>	<u>Quantity & Item</u>	<u>* & X = New 2018</u>
248	15 - Safety Glasses / Goggles	
249	2 - Face Shield	
250	2 - UV Face shields	
251	4 - Rubber Gloves	
252	25 - Disposable Gloves	
253	6 - Dust Mask/Respirators	
254	2 - Ear Protection muffs & 14 pair disposable ear plugs	
255	1 - Eye Wash Stations	
256	2 - Back Supports	
257	1 - Gas Detector / Monitor, portable	
258	1 - Lock Out/Tagout Station	
259	2 - Full Body Harness	
260	2 - Lanyards	
261	1 - Tripod and Winch	
262	3 - First Aid Kits	
263	6 - Fire Extinguishers, Plant	
264	1 - Fire Extinguishers, Office	
265	3 - Fire Extinguishers, Vehicles	
266	SPARE EQUIPMENT & PARTS	
267	1 - 10hp Rebuilt Flyght lift station pump	
268	2 - electrical contact relay for pista grit	
269	1 - 3 phase monitors for lift stations	
270	3 - Allen Bradley PLC I/O Boards for UV control panel	
271	73 - UV bulbs	
272	49 - UV quartz sleeve	
273	3 - UV ballast	
274	2 - UV air cylinder rebuild kit & 2 outer bands	
275	3 - New UV air cylinder	
276	1 - UV air cylinder hose, approx. 20 ft.	
277	16 - Wiper Rings	
278	1 - UV bulb cord w/1 bulb sockets	
279	1 - blower for digesters	
280	4 - UV sensor brushes	
281	1 - Vac pump rebuild kit for Field Gymmy sludge truck	
282	1 - Carboy for BOD water	
283	1 - electric cylinder valve for back of sludge truck	
284	1 - Fluorescent bulb ballast & 28 T-8 bulbs	
285	1 - quantity of assorted ¾, & 1" PVC pipe fittings	
286	1 - quantity of assorted nuts & bolts	
287	2 - Transtector ACP-100 surge suppressor	
288	1 - Transtector PDS 1 tube surge protector	
289	1 - Alternating relay for lift stations	
290	1 - Rebuild kit for the compressor pump in the Pista Grit panel	

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The Lake of the Ozark Regional Wastewater Treatment Plant #1

Emergency Response Plan, Emergency Operations Plan, Emergency Action Plan, and Fire Protection Plan

January 2019

Purpose

The purpose of the Emergency Response Plan (ERP) is to provide for an organized response to an emergency situation at the Lake of the Ozarks Regional Wastewater Treatment Plant #1 (WWTP). The primary emphasis in the ERP is to minimize risk to public health, and to minimize damage to private and public property. The secondary emphasis in the ERP is to provide the best possible wastewater treatment in the event of an emergency situation.

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Preliminary Damage Assessment Checklist

- ☐ Call key plant personnel, starting with Contact Order on page 3 of this ERP. Determine need for additional personnel.
- ☐ Notify fire department if appropriate.
- ☐ Identify person in charge at the site.
- ☐ Make preliminary site evaluation, determine extent of physical and operating damage. (Check piping, pumps, basins, structures, look for seepage, leaks, cracks, landslides, broken pipes and drains).
- ☐ Check for downed power lines and propane gas odors and notify Ameren UE if necessary.
- ☐ If damage appears intentional, notify police (site may be a crime scene).
- ☐ Take steps to keep public safe, use barricades, etc. Remove obstacles that will prevent emergency vehicle access.
- ☐ Person in charge should contact key City and Board members to inform of situation and discuss further anticipated notifications.
- ☐ If environmental damage is likely, notify MDNR.
- ☐ If public health is at risk, notify local health department.
- ☐ Develop mitigation and recovery plan.

Section I

A. Personnel Inventory, Contact Order & Training

1: Personnel Inventory

Name	Title	Office Phone	Home Phone	Mobile Phone
Gary Hutchcraft	Local Manager II	573-365-0455		573-216-8398
John Hornback	Supervisor	573-365-0455	573-369-2761	573-480-4065
David Henson	Utility Worker II	573-365-0455		573-723-0715
Gary Johnson	Division Manager	573-874-8080	573-234-7946	314-581-6024
Mark Mahler	Director of Compliance & Safety	573-874-8080		573-825-8169
Tim Geraghty	AWR President	636-561-3737	Ext. 101	314-575-4738

2: Contact Order

Contact Order	Corporate Office Contact	Division Contact	Outside Support Contact
1		Gary Hutchcraft	
2		John Hornback	
3		David Henson	
4			Lonnie Madole
5			Kevin Klein
6			Josh Thompson
7	Gary Johnson		
8	Tim Geraghty		

Client	Nick Edleman
Contact:	Matt Michalik

3: Annual Staff Training Goals

- * CPR – First Aid
- * Confined Space Entry
- * Vehicle Safety – Defensive Driving
- * Hazard Communication
- * Work Area Protection – Traffic Around Job Sites
- * Lockout – Tagout
- * Back Safety/Lifting Methods
- * Respiratory Protection
- * Emergency Action and Fire Prevention

4: Emergency Response Plan shall be reviewed and updated on an annual basis

B. Facility Emergency Equipment Inventory

1. Communications

a. Cell Phones

The following Cell numbers have been assigned to staff:

Gary Hutchcraft	573-216-8398
John Hornback	573-216-3878 (duty phone)
David Henson	573-216-3878 (duty phone)

b. Telephones

WWTP Plant Voice	573-365-0455
WWTP Plant Dialer	573-365-0455
WWTP Duty Cell	573-216-3878

2. Safety Equipment

- a. Full body harness (2) - (Admin. Bldg.)
- b. Lanyard & spreader bar – (Admin. Bldg.)
- c. Tripod and hoist - (Admin. Bldg.)
- d. 4-gas Drager X-am 2000 gas detector - (Admin. Bldg.-office)

3. Other Equipment

- a. Ford 6" trash pump, City owned (Lake Ozark)
- b. 60' of 6" suction hose, City owned (Lake Ozark). 60' of 4" suction hose w/ 4 to 6" adapter.
- c. AMT 3" trash pump, w/ 30' and 50' hoses w/ quick couplers.
- d. Dodge Dakota, 2WD pickup truck w/ tire chains.
- e. Volvo White GMC Sludge pump truck w/ 3700 gallon tank.
- f. GMC 4 Wheel drive Field pump truck with 1600 gallon tank w/ 20' of 6" suction hose.
- g. Wire feed Welder (1)
- h. Oxygen and Acetylene torch set w/ 50' hose.

C. Command Post Designation

- The command post for the WWTP shall be in the Administration building-office at the WWTP. If conditions make this impossible, then the command post shall be located at a designated site provided for by the Joint Sewer Board.
- All communications shall be coordinated through the City.

D. Communications Policy

1-Report all emergency situations (if possible), to Gary Hutchcraft

If Gary cannot be contacted, then call the people on the following list until someone is notified of the emergency situation.

	Work	Mobile	Home
• David Henson	573-365-0455	573-723-0715	
• John Hornback	573-365-0455	573-480-4065	573-369-2761
• Lonnie Madole	573-378-5737	573-789-5242	
• Kevin Klein	573-378-5737	573-378-8510	
• Josh Thompson	573-364-8790	573-308-6229	573-762-9941
• Gary Johnson	573-874-8080x275	314-581-6024	573-234-7946
• Tim Geraghty	636-561-3737x101	314-575-4738	

What qualifies as an emergency situation?

Generally speaking, an emergency situation can be anything that has the potential to cause danger to human health, and or damage to property. We can easily extend the meaning of an emergency situation to be anything that has the potential to cause damage to the environment. The practical application thus being: an emergency situation is any situation that has the potential to cause a violation of the NPDES permit.

The NPDES permit is a combination of both numeric and narrative standards that are developed to protect the designated uses of the stream that the Lake of the Ozarks Regional WWTP #1 discharges into. The permit also contains standards that cover wastewater discharges from the collection system.

The following outline lists some (not all) of the situations that qualify as an emergency situation that should trigger notification.

Surcharge

Wet Weather

Dry Weather

Loss of treatment

Power Fail

Equipment damage

Toxic Shock

Short Circuit

Sabotage

2 - In an emergency situation the following information shall be communicated:

- What has been damaged,
- If no damage, why is there an emergency,
- Is there a threat to public health,
- Is there damage to public and/or private property,
- Has treatment been affected,
- Are NPDES permit violations occurring,
- Will NPDES permit violations result from the emergency,
- Are there any safety issues due to the emergency,
- Are help and/or equipment needed to eliminate the emergency?

3-The MODNR will have to be contacted when Section B, 2A-B, (noncompliance notification standards, published in the 'Standard Conditions for NPDES Permits'), have been reached. A

copy of these standards is included in the text of this plan on page 24. Follow the directions listed in the 'notification standards'.

MODNR Southwest Regional Office

Phone: 1-417-891-4300 or Environmental Emergency Response 1-573-634-2436

2040 W. Woodland

Springfield, MO 65807

Always notify the Joint Sewer Board and Corporate before MODNR notification. When notifying the MODNR always record the name of who you are talking to, and the time and date of the notification. Give the following information: what the violation is per notification standards, and what our actions are to eliminate the violation. Be factual; do not assume anything. Finally, find out if the DNR requires written notification concerning the violation.

In the 2 drawer file cabinet by the copier, the file that is marked "DNR Bypass forms" there are two report forms that need to be filled out in any bypass situation, and/or any operations - treatment emergency that reaches notification standards. One report form (Wastewater Bypass Report Form) is for the MODNR, and the other report form (Deviation Notification Form) is for AWR corporate. These forms are also included in Appendix 8 of this manual.

E. Emergency Action Plan

- Procedures for reporting a fire or other emergency situations.
 1. Call 911 and report the situation
 2. If the land line phones don't work, try cells and direct connects
 3. Determine if a response is safe and or necessary
 4. Determine whether or not evacuation is necessary
- Procedures for emergency evacuation including type of evacuation and exit route assignments.
 1. If an emergency evacuation is necessary follow the exit routes posted in the buildings.
 2. All evacuees shall meet at the main entrance gate, and determine what action needs to be taken, and if support can be given to emergency response personnel.
- Procedures to be followed by employees who remain to operate critical plant operations before they evacuate.
 1. If employees need to stay behind to operate critical plant operations, they shall establish communications with an employee who has already evacuated. Communications shall be on a routine basis with information conveyed relating to the safety of the remaining employee, current operation conditions, safety related conditions, etc.
 2. The employee who stayed behind shall evacuate if life threatening conditions present themselves, or if there is evidence that a condition may become life threatening.
- Procedures to account for all employees after evacuation.
 1. As specified above, all employees who evacuate shall meet just outside the entrance gate. An accounting of all employees shall be determined.

- Assignments

1. The on call operator shall be designated as the employee who stays behind.
2. The local manager shall ensure that communications are being carried out with the employee who stayed behind
3. The local manager is responsible for making an accounting of all employees.

F. Fire Protection Plan

- Assure that hazardous accumulations of combustible waste material are controlled.
 1. Place used rags in the metal used rag container.
 2. Keep trash picked up and trash cans empty on a regular basis.
 3. Complete and turn in the required hot work permit for all welding or grinding activities.
 4. Keep a 30 minute fire watch after any welding operation has ended.
 5. Keep combustible liquids in the storage cabinets. Keep the cabinet doors closed.
- Identify high risk areas and develop plans to minimize potential fire hazards.
 1. The highest risk area for fires is in the shop. Plans to minimize the risk of a fire include: use of storage cabinets for gasoline, paints, etc. Use of metal trash cans with lids for the storage of used shop rags. And the control of trash accumulation on the floor and in the trash cans.

WATER RESOURCES		ALLIANCE		HOT WORK PERMIT/ CHECKLIST	
Location:		Date:		Supervisor:	
Work to be done:					
Special Precautions:					
Time Started:			Time Completed:		
Signed:			Date:		
(Individual responsible for Hot Work authorization.)					

ATTENTION	
Before approval of the Hot Work Permit, the Supervisor or appointee shall inspect the work area and confirm that all precautions have been taken to prevent fire.	

Yes	No	N/A	Precautions
			Is all cutting and welding equipment in good repair/ condition?
			Has pre-task Tool Box Talk been administered?

Yes	No	N/A	Within 25 Feet of Work
			Floor/ ground clear of combustibles if possible?
			Combustible floors wet down, covered, or shielded?
			No combustible material or flammable liquids?
			Combustibles and flammable liquids covered or shielded?

Yes	No	N/A	Work on Enclosed Equipment
			Equipment cleaned of all combustibles?
			Containers/ drums purged of flammable vapors/ materials?

Yes	No	N/A	Fire Watch
☒			To be provided during and 30 minutes after work completion?
☒			Supplied with fire extinguisher and or small charged fire hose?
☒			Trained in the use of equipment and emergency procedures?

Yes	No	N/A	Final Check-Up
			Completed 30 minutes after work completion?
Supervisor Signature:			Date:
(To be signed by individual responsible for Final Check-Up after its completion.)			

G. Emergency Identification and Analysis

Emergency	Analysis
Severe storms, high wind, lightning, floods.	• Damage can range from low to medium depending on severity of storm. • Electrical supply, electrical pathways, exposed equipment and equipment located in underground vaults (when flooding is a concern), are most susceptible to damage.
Severe cold, ice storms, blizzards.	• Damage can range from low to medium depending on severity of conditions. • Temperatures below -15° F are cause for emergency response with outside equipment and with buildings that require additional heat to protect equipment with exposed moving parts. In these conditions always make sure the lift stations lids are closed. • Ice storms and blizzards can cause damage to the electrical supply and also hinder access to the Wastewater Treatment Plant.
Earthquakes.	• Damage can range from low to high. • A major earthquake has the potential to cause extensive damage to all phases of wastewater collection and wastewater treatment since a lot of equipment is located underground. • Damage can also occur in weak links of a collection system or weak areas of concrete basins, which may not be apparent by visual observation.
Sabotage, civil unrest, riots, terrorist attacks.	• Damage can range from low to high on electrical supply, and any equipment that is exposed and can be easily damaged (i.e. bar screen, electrical control panels, lift stations, lab-office building equipment, etc.). • Measures to prevent damage from terrorist attacks are detailed in the following section on facilities security.
Air borne chemicals, water borne chemicals, toxic chemical spills, weapons of mass destruction.	• Damage to bacteria mass in the treatment process, and can also affect health of treatment personnel. • Caution should always be taken when confronting a chemical - biological emergency. • If weapons of mass destruction are suspected to have caused the emergency, then treat the affected area as a crime scene and call local authorities.

H. Facilities Security:

The following topics should be analyzed and developed to increase security to its highest Level at the WWTP:

1. Detection (the ability to detect a security threat),
2. Access (deter access to the WWTP),
3. Delay (provide a layered barrier system to delay access to the WWTP)
4. Respond (develop an organized response to a breach in security)

I. Priority Equipment and Processes.

The following list is a list of equipment and/or processes in the order of relative importance to the wastewater treatment process. The list shall be used as a guide when determining what equipment and/or processes need to be placed into service first, second, and so on, when there is a widespread emergency. The list is organized into two categories: WWTP mechanical (piping and valves), and equipment (which includes structures).

Mechanical	Treatment Equipment
1. Raw sewage force mains to WWTP.	1. Oxidation Ditches (at least one aerator per unit that WW is entering)
2. Gravity thru Oxidation Ditches.	2. Final Clarifiers (1,2 & 3).
3. Gravity mains from oxidation ditches to final clarifiers splitter boxes.	3. Adjustable weir gate valves at basins
4. Gravity to Clarifiers.	4. Adjustable weir gate valves at splitter box for Clarifiers
5. Sluice gates in Oxidation Ditches and UV channels for draining purposes	5. Lift Station between aeration basins
6. RAS force main back to Ditches	6. RAS electric pinch valves in middle room of headwork's bldg.
7. RAS waste from clarifiers	7. Waste valves
8. Sludge waste force mains to sludge storage cells.	8. Waste valve pit and waste manhole on top of hill and at bottom by Digesters

J. Emergency Response Guidelines.

1. General Guidelines.

- **Analysis and Planning.** If time permits conduct an initial meeting with staff to assess an expected emergency situation. Outline potential damage to specific equipment, processes, or structures. Plan a strategy to prevent potential damage and/or minimize its effects on public health, property, and wastewater treatment.
- **Inspect.** After the onset of an emergency, inspect WWTP for damage. Follow all applicable safety regulations and lock out and secure any unsafe areas.
- **Communicate.** Document damaged units, and unsafe areas. If damage creates immediate threats to public health, properties, and/or wastewater treatment, contact Joint Sewer Board, AWR, and State; to advise of situation. Consult communications policy on page 4.
- **React.** Execute activities to eliminate threats to public health, property, and/or wastewater treatment. Refer to 'Damage and Response' section of this plan to help direct the activities. Collect necessary samples, as NPDES permit requires. Develop best treatment plan in the event of an emergency that disables one or several process units. Contact City's for emergency purchasing authority. Contact vendors for needed supplies.
- **Communicate.** Update the Joint Sewer Board, AWR, and State as needed. Log important observations and actions.
- **Repair.** Make necessary repairs to bring damaged units back up to full operations.
- **Review.** Review emergency response with staff and make adjustments in the ERP if necessary.

In a widespread emergency, AWR staff will be required to assist the Joint Sewer Board. In this situation, one staff member (two staff if there are safety concerns), will be responsible for implementing the initial steps of the above guidelines.

Section II

Damage and Response

Damage to the WWTP can result in threats to public health and/or damage to private or public property. Damage can also result in an interruption of wastewater treatment in various degrees. The WWTP are constructed of several process units that are linked together to convey and treat the wastewater. This section looks at the possible effects of damage to these process units, and what type of responses can be made to limit the threat to public health, property damage, and the continuation of wastewater treatment.

Process Unit:

Main Power Supply

Key Components:

3 phase power lines from sub, pole and pad mounted transformers feeding MCC1 which feeds MCC2.

Effects of Damage

Power lines-

- In severe cases one or all of the power lines can be severed which will result in power loss to the WWTP.
- If power lines are severed upstream from the pole or pad mounted transformers then power loss will affect MCC1 & MCC2
- Power loss of more than 8 hours has the potential to cause the ditches to go septic and the sludge in the clarifiers to surface and bulk and/or cause a violation of permit limits.

Transformers-

- Loss of one or more of the pole or pad mounted transformers will cause power loss to MCC1.

Response

Power lines-

- Call Ameren UE and find out how soon they can make it out. Once you have a response then call the Local Manager and inform, then let him make the decision on what to do next.
- At the least the employee on emergency Duty must stay until Ameren UE restores power or a relief operator shows up to relieve him and once power is restored bring one piece of equipment back on line at a time.

Transformers-

- Checks to see if fuses have blown or flipped down on the pole mounted transformer by the main power control room at the Headwork's Bldg. and inform Ameren UE of it. If that is what it is then, it will be an easy fix for them. **Never try to attempt to flip fuses back up on your own, Let Ameren UE do it.**

Process Unit:

Head Works

Key Components:

MCC1 and MCC2 control power and control equipment (unit specific), mechanical bar screens, grit chamber, grit solids pump, RAS pumps, non-pot and potable pumps.

Effects of Damage

In general-

- In any case, if damage is severe enough to disrupt either the mechanical bar screen, and/or the grit chamber/grit solids pump; both units can be bypassed. This condition is acceptable for a few days.

Response

In general-

- If units must be bypassed, do so immediately by placing a stop gate in its appropriate positions; this job requires two people.
- Install the manual bar screen as needed.
- Do not allow flow into the grit chamber if the paddle drives, grit solids pump, are not working, for more than couple of days.
- If damage results in the loss of the heater then emergency heating needs to be set up in sub-freezing weather.
- Pump out the grit chamber if it will be out of service during sub-freezing weather and are experiencing icing conditions.
- If necessary, also pull the Auto bar screen up and install manual bar screen; this will require getting in influent channel and hooking come-along to eyelets on bottom of bar screen and lifting it up out of the way so you can install the manual screen. This job requires at least 2 people.
- When bringing units back into service the mechanical bar screen shall receive top priority over the grit chamber, grit solids pump.

Process Unit:

Secondary Treatment

Key Components:

MCC1 and MCC2, aerator control box, control power and control equipment, oxidation ditch 1, and oxidation ditch 2.

Effects of Damage

In general-

- MCC1 power center is utilized to operate the aeration equipment.
- The most critical aeration equipment are the motors and gear boxes that drive the Carousels. At least one should be in operation at all times.
- Loss of the oxidation ditches will result in at least a 60% reduction in treatment.
- Loss of air to the bacteria in the oxidation ditches for more than: 4 hours in the summer, and 24 hours in the winter, will create anoxic conditions and could possibly kill the bacterial population.

Response

In general-

- The oxidation ditches can, (one at a time), be isolated from the WW treatment process.
- If all aeration equipment is down make arrangements to get a minimum of one carousel per ditch in operation ASAP.
- Note: If there has been a toxic spill in the collection system, one of the oxidation ditches can be made ready to accept the toxic waste, and then taken out of the process to further treat the toxic waste.
- If bacterial population is killed, plan to get seed from Camdenton or other surrounding communities.

Process Unit:

Clarification

Key Components:

Clarifier splitter box

MCC1 feeds MCC2.

Final clarifiers 1, 2, 3

Control power and control equipment.

Clarifier drive units, skimming mechanism, scraper mechanism, sludge withdrawal, RAS pumps, RAS force main, WAS force main, and clarifier gravity drain

Effects of Damage

In general-

- Severe cold is the most likely threat to damage the clarifiers.
- Earthquakes could cause considerable damage to underground piping.
- There is one inlet line and one drain line on clarifiers #1 and #2, with no drain on #3, so it is appropriate to state that any damage to underground piping could result in total disruption to the function of the clarifiers.
- Damage to sludge withdrawal equipment will disrupt the return of sludge to the oxidation ditches and thus stockpile the sludge in the affected clarifiers.

Response

In general-

- In severe cold, the skimming mechanisms should be modified to minimize potential damage to the skimmer arm/rake mechanism.
- A means of maintaining surface water disturbance (i.e. water sprays) is necessary to keep the surface from forming thick ice.
- Constant attention shall be given to the clarifiers during extreme cold conditions.
- Emergency pumping may be required to remove sludge from the clarifiers. This can be accomplished with the sludge pump truck on a routine interval. Clarifiers 1, and 2, should be placed back into service first.
- Note: Clarifier 3 cannot be drained dry by means gravity drain mains; it has to be pumped dry by RAS pumps.

Process Unit:

RAS Pump Building (basement)

Key Components:

MCC1 feeds MCC2, control power and control equipment, discharge piping, and check valves, discharge valves, force main, pumps/motors.

Effects of Damage

Main power-

- Will disable pumps and may lead to the stockpiling of sludge in the clarifiers. If left unchecked sludge can be discharged into the receiving stream.

Control power, control equipment-

- Will disable pumps in the automatic mode. Pumps can be operated manually (unless control transformer is damaged).

Piping and valves-

- Damage will inhibit operation of pumps.

Pumps and motors-

- Can disable one or all pumps.
- There are five pumps in the RAS pump building, which should greatly minimize the chance of losing total pumping capacity.

Response

Main power-

- If there is a power loss feeding the pump building then check to see if you have lost a leg of your 3 phase power in MCC2?
- If there is an interruption of main power within the control panel then isolate the problem (motor starter contacts, thermal overloads, fuses, etc.) and correct.
- Be aware that high amps indicate a motor overload (shorted windings, bad bearings, pump obstructions, etc.), and should be corrected before placing any motor back into service.

Control power, control equipment-

- If pumps operate on hand but not on auto then there is a problem with either the control power and/or the control equipment.
- Check control voltages.

Piping and valves-

- If there is damage to suction piping and/or check valves, then the damage shall be repaired, (ASAP if all pumps are affected; emergency pumping may have to be provided in this situation).
- If damage to piping and valves occurs downstream from the check valve, the damage should be repaired as required to allow RAS to be conveyed under pressure.

Pumps and motors-

- If all pumps are disabled then isolate the problem with each pump and plan corrective action based on which pump can be repaired the fastest. Make repairs to that pump then proceed to the next, etc.

Process Unit:

Sludge Digestion and Sludge Storage

Key Components:

Motor control center at digesters, positive displacement blowers air suction and discharge piping, air distribution piping and diffusers, sludge loading station, force main(s), valves.

Effects of Damage

In general-

- Damage will most likely have a minimal effect except in a situation where the sludge basins are discharging sludge.
- Loss of aeration will turn the sludge basins into facultative storage.
- Long-term loss of air may damage the diffusers.

Response

In general-

- If the sludge basins are discharging sludge then action should be taken immediately to contain the sludge and prevent it from reaching the receiving stream.
- If flood conditions exist, let water recede and then evaluate the situation. If sludge spill takes place fill out MODNR SSO/Bypass and AWR Deviation Notification forms, found in (Appendix 7). Make needed repairs and get back on line ASAP.
- Loss of air should be addressed as time permits.

Section III

Contingency Plans

Contingency Plan for Total Loss of Electrical Power

Goal: Develop strategies and to assign specific duties to plant staff: to provide for continuance of pumping at critical points of Plant; and to provide for at least primary treatment at the wastewater plant.

Response:

1. Contact generator supplier or vendor. Find out how soon they can get a portable generator to our location. Get into service one aerator in each ditch and at the minimum 2 clarifiers depending on flow conditions.
2. Get into service the head works building equipment.
3. In below freezing weather check to make sure heaters in all buildings are operating properly.
4. Check to make sure that lift stations are operating properly.
5. Check status of wastewater plant.
6. Check all lift stations, secure by taking one of the two pumps off line, and providing emergency pumping if needed.
7. Conduct a meeting to evaluate the situation and make necessary decisions as the need arises.

Contingency Plan for High Flows

Goal: Minimize solids wash out and provide for best treatment of all influent flow.

Note: During a high flow event both oxidation ditches will be needed to prevent solids wash out.

Response: Response depends on whether one ditch is in service or if both ditches are in service. Great care must be used when, at the onset of high flows, that sludge blanket depths are monitored. If sludge blankets are rising then several options present themselves, first, more clarifiers can be placed into service, if any is out, second, #1 and #4 carrousel aerators can be shut off reduce mixing in the ditch (es), third, #3 and #6 can be taken out of service to further reduce mixing in the ditch (es), fourth, all aerators can be taken out of service (for short periods of time, i.e. up to 8 hours) to eliminate mixing in the ditch (es). Or a combination of the above measures can be used. The overall goal is to save the mixed liquor suspended solids (mlss) in the ditch from being discharged in the receiving stream. Past high flow events have demonstrated that proper management of flow through the plant can achieve good treatment (within NPDES permit standards). It is also important to note that effluent sampling should be done during high flow events to assure that NPDES permit standards are being met, and that proper documentation in the plant daily bench sheet must be maintained on all process changes to manage high flows. Whenever all the carrousel aerators are shut off to prevent solids wash out the event must be reported as a bypass at the WWTP. Always leave 1 aerator in each ditch going if at all possible, even if it means moving the oxidation ditch inlet gates to aerators #3 and #6 and running only those aerators. This will give the mixed liquor suspended solids (mlss) time to settle in the ditch before entering the clarifiers.

Bulking Sludge

Response:

If a clarifier is bulking sludge and flows are normal for dry weather, first raise splitter box gate to the clarifier or clarifiers that are bulking, then go over to the RAS pinch valve and open them up all the way and if that doesn't calm things down then go down in the RAS basement and clean pumps.

If the pumps are not clogged but is flowing clear water then there is probably a short circuit in the clarifier caused by structural damage of the rake mechanism. Shut flow off to the clarifier and drain it and check for damage. Put other clarifiers (if one is down) on line as appropriate.

If the pump is not clogged and the discharge is dirty, then check the other clarifier to see if it is bulking as well. There could be a toxic shock. First try shutting the aerators off closest to the outlet weir gates and if that doesn't work try moving the basin inlet gates to, (#3 and #6) and running only those aerators, will minimize solid loss, and may be an appropriate response.

Contingency Plan for Toxic Chemical Release

Toxic chemical release to the wastewater treatment plant will most likely take place in one of two forms, regardless of the toxic agent.

The first likely scenario would be the discovery, containment and cleanup of a fuel leak. This would involve participation of Lake Ozark Fire Department, Lake Ozark Emergency Response personnel and a HAZMAT unit. In order to accept this type of waste a few conditions must be met: first, the BTEX test result (if available) should be less than 2.13 mg/l; and second, the plant is operating under dry weather flow conditions. If both conditions are met then the waste can be placed into one of the basins that has been determined to be used for that purpose. The waste can then be diluted and intermittently fed into the treatment process to minimize shock on the biological community in the treatment process. Bench testing of the waste can also be performed to demonstrate if there will be problems to the bacterial community.

The second most likely scenario would be notification of a toxic release into the sewer system. This has never happened (at least the notification part) but if this condition should arise then the most likely first response would be to divert all flow to the designated basin. The second step would be to ascertain what type of toxic chemical it is (ask for MSDS information) and how much of the toxic chemical is in the system. The third step would be notification of City or Cities, Corporate and MODNR. With data available try to estimate when the chemical will arrive at the treatment plant and how long it will take to flush the chemical from the sewer system. This information will determine the length of time all flow will need to be diverted before it is safe to resume normal flow. Again, the availability of taking one basin off line will allow temporary containment (provided dry weather flows) and the ability to further treat the chemical and either release the chemical into the treatment process or allow for its removal and disposal at another location.

Contingency Plan for SSO's

SSO's can occur in both wet and dry weather.

Wet weather SSO's are usually caused by inflow and infiltration (I&I) of storm water into the wastewater collection system. A high rate of I&I can cause hydraulic overloading in the collection pipes and thus create an overflow in a manhole or a lift station.

Dry weather SSO's can occur due to collection pipe blockages, long term power fails, and /or lift station pump malfunction.

Whenever an SSO is observed use the Missouri Department of Natural Resources Wastewater Bypass Report Form (Appendix 7), along with the Deviation Notification Form (Appendix 7) to record the SSO event. Copies of these reports must be kept on file along with daily and monthly reports file. Wet weather bypasses at the WWTP are reported on the monthly monitoring report, and filed accordingly.

When bypasses occur at the treatment plant (flow discharged from the WWTP without proper treatment, and/or all aerators are shut off), then document the bypass in the plant daily bench sheet and start the effluent composite sampler. Bypasses from WWTP shall be noted on the monthly DMR, Daily bench sheet and Plant log book; until further notice.

Contingency Plan for Sludge Spills

Whenever sludge spills occur, documentation and cleanup services must begin immediately.

Documentation –

- Describe in the log book the location, cause and amount of the sludge spill.
- If the spill is greater than 25 gallons then treat the spill as a bypass and fill out the necessary documents (Appendix 7) and report the incident to the control authorities.

Clean Up –

- Treat spill area with lime
- Remove spilled material and dispose at the WWTP.
- If spill occurs on a public road way then use appropriate traffic control and warning signals as necessary

Appendix 1

Local Radio Stations

Call Letters	Frequency	Location	Phone#	Fax#
KRMS	AM 1150	Osage Beach, Mo	573-302-7000	
KRMS	FM 93.5	" " "	573-348-2779	
KLOZ	FM 92.7	" " "	573-302-1993	
KTKS	FM 95	Versailles, MO	573-378-5669	573-378-6640

Local Television Stations

Call Letters	Channel	Location	Phone#	Fax#
KMOS	PBS 7	Warrensburg, MO	573-543-4155	
KRCG	CBS 13	Jefferson City, MO	573-896-5144	

Local Newspapers

Name of Paper	Address	Contact Person	Phone#	Fax#
Lake News Focus	5107 Hwy. 54 Osg Bch		573-348-6050	
Lake Sun Leader	450 N. Hwy. 5 Camdenton	Justin	573-346-2132	
Eldon Advertiser	415 S, Maple St., Eldon		573-392-5658	
Leader-Statesman	104 W. Jasper, Versailles		573-378-5441	
Westside Star	400 N. Main St., Grvs Mls		573-374-3100	

Systems Personnel

Name	Position	Work Phone#	Mobile Phone#	Home Phone#
Gary Hutchcraft	Local Manager II	573-365-0455	573-216-8398	
John Hornback	Supervisor	573-365-0455	573-480-4065	573-369-2761
David Henson	Utility Worker II	573-365-0455	573-723-0715	
Gary Johnson	Division Manager	573-874-8080	314-581-6024	573-234-7946
Mark Mahler	Director of Compliance & Safe	573-874-8080 x226	573-825-8169	
Tim Geraghty	AWR President	636-561-3737 x101	314-575-4738	

City Personnel

Name	Position	Work Phone#	Mobile Phone#
Jeana Woods	City Admin. Osage Beach	573-302-2000 ext. 290	573-280-1174
Nick Edelman	Dir. P/W Osage Beach	573-302-2020	573-216-9856
Dave VanDee	City Admin. Lake Ozark	573-365-5378	573-280-6992
Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063
L.O. Police Dept.		573-365-5371	
O.B. Police Dept.		573-302-2010	

City Engineer

Name	Company	Work Phone#	Mobile Phone#	Fax#
Nick Edelman	City of Osage Beach	573-302-2020	573-216-9856	573-302-2043

Sewer Board

Name	Position/Department	Work Phone#
John Olivarri	Mayor / Osage Beach	573-302-2000
Gregory Massey	Board Member / Osage Beach	573-302-2000
Gary Hamner	Board Member / Osage Beach	573-302-2000
Jonnie Franzeskos	Mayor / Lake Ozark	573-365-5378
Gerry Murawski	Board Member / Lake Ozark	573-365-5378

Local and County Authorities

Name	Position	Phone#	Fax#
Lake Ozark Fire Dept.		573-365-3380 or 911	573-365-3758
Osage Beach Fire Dept.		573-348-1221 or 911	
Miller Co. Sheriff Dept.		573-369-2341 or 911	
L.O. Police Dept.		573-365-5371 or 911	
O.B. Police Dept.		573-302-2010 or 911	
Miller County Health Dept.		573-369-2359	
Camden County Health Dept.		573-346-5479	

Local Ambulance Service

Name	Phone#	Emergency #
Osage Beach	573-302-2010	911
Miller County	573-369-2444	911

System Maps/Drawings

Name	Position	Work Phone#	Mobile Phone#	Home Phone#
Gary Hutchcraft	Local Manager	573-365-0455	573-216-8398	
Nick Edelman	Dir. P/W Osage Beach	573-302-2020	573-216-9856	
Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063	

Local Utilities/Services/Suppliers

Service	Contact	Company	Phone#	Mobile Phone
Phone	Bruce	AT&T	800-286-8313	573-286-0954
Electric	Brent	Ameren UE	800-552-7583	573-694-5914
Propane		Ferrell Gas	573-392-5400	573-280-7184
UV System	Walt Williams	ITT Wedeco	704-409-9818	
UV System	Shawn	Vandevanter Engineering	636-343-8880	314-724-1269
Laboratory	Colleen	Pace Labs	913-563-1406	
Electrician	Steve Durban	Aesthetix Electric	573-348-1429	573-219-0043
Electrician	Leroy	Midwest Electric	573-348-2727	
Truck Repair	Larry	Roemer Equipment Repair	573-348-3733	
Truck Repair	Monte	Rapid Mobile Repair Ser.	573-346-3217	
Heat A/C	Herb	Controlled Heating & Air	573-348-5455	
Heat A/C & KVAR		Comfort Heating & Cooling	573-348-9999	
Auto Mechanic		Precision Auto	573-348-2233	
Auto Mechanic		Beyer Auto Repair	573-365-1111	
Instrumentation	Mike Ross	Vandevanter Engineering	636-225-8133	314-422-2872
Instrumentation	Scott Keith	ECCO Electric	573-348-1798	573-524-3399
Electric Motors	Jim	Bowling Electric	573-346-4355	
Pumps / Motors	B.J. Hedrick	Evans Enterprises	417-886-8886	417-844-3607
Pumps / Motors	Ben	JCI / MEMC	573-636-7061	573-694-9555
Clarifiers	Field Service	Eimco	801-526-2000	
Pumps / Motors, Aerator Gear Boxes	Bruce	S & S Electric	573-581-7667	
Backhoe / Dirt Work	Steve Butler	Drain Masters, LLC		573-216-1169
Building Repair	Todd	Ellerman Const.	573-348-3553	573-746-1012
Building Repair	John	Missouri Builders	573-636-7733	
Chemical Supplier	Larry Startin	Brenntag	417-887-3663	417-593-0108
Digester Aerators	Patrick	EDI	573-474-9456	
Truck Tires	Delbert	Purcell Tire	573-348-4010	573-836-0038
Truck Tires	Kevin	McKnight Tire	573-635-0101	573-338-3350
Truck Tires		Bruns Service Center	573-392-4816	
Piping Supplies	Justin	HD Waterworks Supply	573-348-1273	
Welding Service	Gary Koerber	GL Welding		573-680-3957

Waste Haulers

Source	Address	Phone#
Amos Septic	Linn Creek, MO	573-346-5992
Camden County	Lake Ozark, MO	573-374-5850
Bullock Septic	Laurie, MO	573-374-6688
A & A Septic	Camdenton, MO	573-346-5123

Emergency Rental Equipment

Company	Equipment	Location	Contact Person	Phone#
Midway Rental	All Types	Eldon, MO	Jim or Tom Dial	573-392-1611
Lake Lifestyle Rentals	All Types	Osage Beach, MO		573-348-3250
A-B Rental	All Types	Camdenton, MO		573-346-7700

MODNR Contacts

Names	Office	Phone #	Fax #
Troy Potteiger	Osage Beach	573-348-4103	573-348-2568
E.C. West	Springfield	417-891-4300	417-891-4399
Sieu T. Dang	Springfield	417-891-4300	417-891-4399
Emergency Response	After Hours Call	573-634-2436	

Appendix 2

Chemical List / Facility Map

Chemicals:

Lab Office Building

- Hydrochloric acid
- Sulfuric acid
- Sodium Hydroxide
- Denatured Alcohol
- Weed Killer

Maintenance Room/Shop (located in old Chlorine Tank room) or UV building

- Chevron Gear Lube
- Transmission fluid
- Motor oil, various grades
- Anti-Freeze
- WD-40
- Dry Film Silicone
- Chain Lubricant

Sludge Digester Blower Building

- Hydrated bag Lime, 50lb bags

Headwork's Bldg. Storage Room

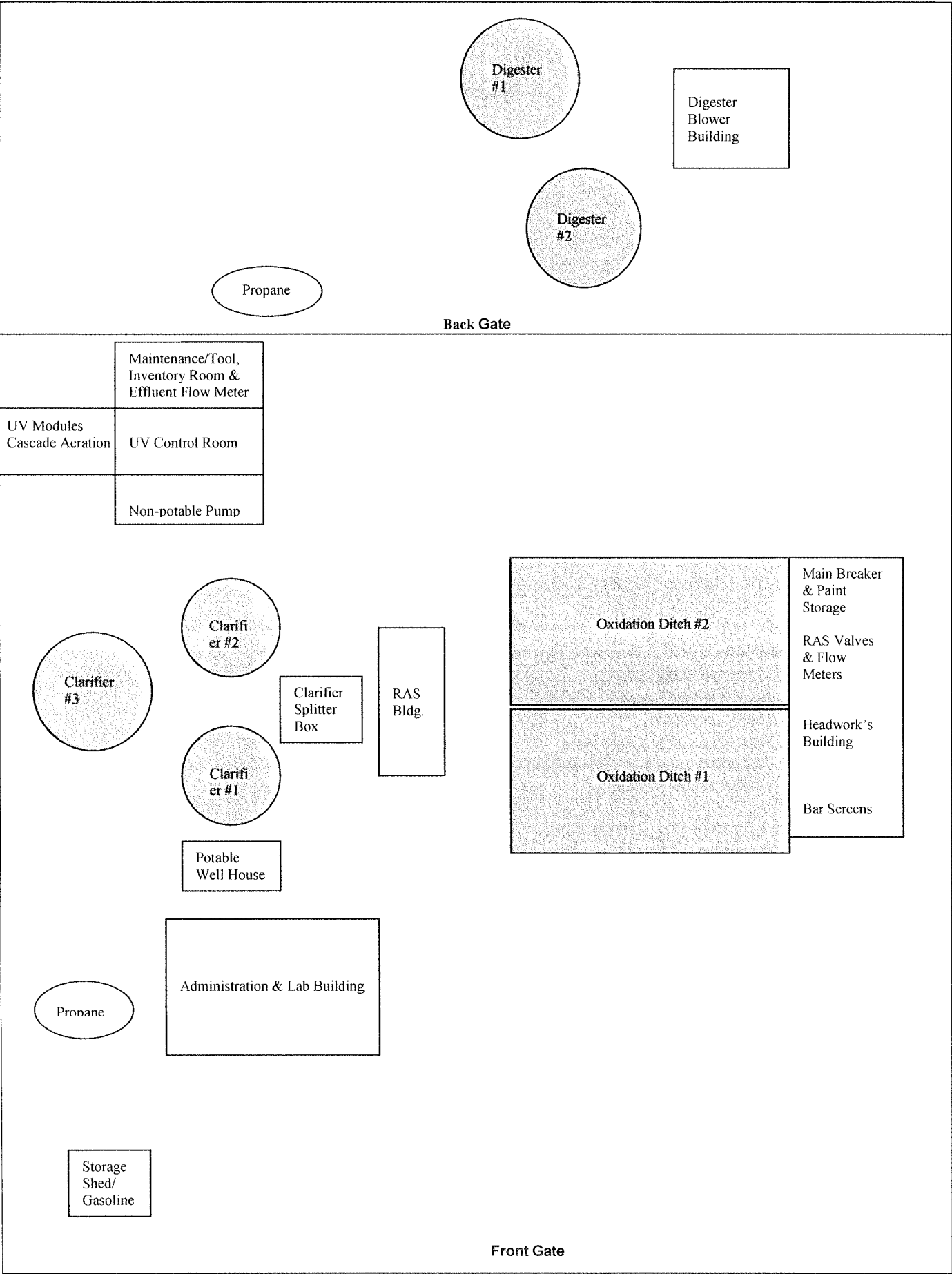
- Chevron Tube Grease
- Mystic tube Grease
- Hydraulic fluid
- Assorted cans spray paint
- Assorted cans building and grounds paint
- Paint thinner / solvents

Storage Shed by Admin. Bldg.

- Gasoline
- Weed eater oil

There are two 500-gallon liquid propane tanks located on the property; one is north of UV building and one west of Admin. Bldg. There is a 100-gallon portable diesel tank located normally stored at the sludge digester building over the hill.

Facility Map



Appendix 3

Standard Conditions for NPDES Permits

Part 1 – General Conditions, Section B – Management Requirements, Part 2. Noncompliance Notification.

A. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such condition: A description of the discharge and cause of noncompliance, and the period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying discharge.

B. Twenty-four hour reporting. The permittee shall report any noncompliance, which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

Appendix 4

Instructions for Daily Readings & Maintenance / Daily Rounds

Sludge Decant Lift Station (at digesters)

Turn both pumps to off position. Turn pump 1 to hand, walk over and observe operation of pump, pump vibration, pump noise, and visually check and watch water level to see if water level is dropping. Turn pump 1 back to auto. Repeat above procedure for pump 2.

Decant / Dewater Lift Station (at aeration basins)

Check operation of pumps by turning both pumps to off position. Turn pump 1 to hand, walk over and observe operation of pump by looking at the discharge going into aeration basin. Listen for pump vibration, pump noise. Record pump hours daily in Admin. Bldg.

RAS Pump Building

One way to check operation of pumps by going over to the headwork's building and look at the RAS flumes and use the RAS pinch valves to adjust flow according to which ditch is the heaviest or lightest. If you can't adjust with valve then your next step is to clean the pumps. Clean RAS pumps as needed or before each waste. Record pump hours daily in Admin. Bldg. office on the Honeywell data recorder.

Final Clarifiers

Check operation of clarifiers for rotation, motor vibration, noise, and heat. Check quality of effluent discharging over the weirs. Record sludge depth, wash scum collection troughs if necessary. Exercise #1 & #2 scum troughs down if they look like they haven't been working on auto. Go to control panel on clarifier and turn scum trough switch to manual, after exercising turn back to auto. Weekly checks on the clarifiers include checking oil levels in all gear reduction units, and checking condensation drains.

Oxidation Ditch 1 and 2

Check operation of rotors, aerators, and discharge weir. Run down rotors on Monday, Wednesday, and Friday. Weekly checks consist of, checking the oil levels in the gear reduction units and checking the oil breathers on them also.

Head Works Building

Check operation of grit paddle, start grit solids pump, and observe for proper operation. To check automatic bar screen, turn bar screen switch to hand and observe for proper operation, and wash bar screen debris as needed. Check and see if the high flow floats in bar screen channels for grease or debris buildup and clean as necessary. Check operation of influent sampler/refrigerator, and record temperature. Weekly checks includes checking the grit chamber and bar screen gearboxes for proper oil levels, checking both the Vac. & Compressor pumps for proper operation and checking the suction globe on the grit solids pump for any excess buildup in the globe and/or air lines. The suction globe needs to be cleaned on a monthly basis. Check what day PM is performed.

Blower Building

Check oil levels and position of valves before turning on blowers then check operation of blowers. Weekly PM consist of checking of oil levels and deflection of belts.

Outfall / UV Structure & Building

Go into UV control room and touch the screen on the front of the panel to check and see if all UV bulbs in the bank or banks that are on line at the time are working. If all are working and if there is no failures, then go out to outfall structure and visually inspect channels for any excess algae or debris buildup. Remove all banks on a monthly basis to clean and inspect bulbs, wipers, brushes and listen for any air leaks or any other types of odd noises. Also clean any algae buildup on the weir system at the end of the UV system.

Appendix 5

Permit Required Confined Spaces

The following list of confined spaces requires a permit to enter.

- Lake Ozark Influent Wet Well (right before flow meter)
- Osage Beach Influent Wet Well (right before flow meter)
- All Manholes
- Both Lift Station Wet Wells
- Both UV channel drain / valve pits

The safety protocol outlined in the company safety rules specifies that a confined space hazard assessment and rescue plan and a confined space entry permit both be completed and submitted to the safety coordinator whenever a permitted confined space is entered. The entry permit is included on the following pages for review; copies of the confined space hazard assessment form and the entry permit can be obtained from the safety coordinator.

☐ Team Needed at Space**PERMIT CANCELLATION (Check Only One)**

☐ Work NOT Complete, Entrants Out

Time

Rescue & Emergency Services:

Plant Emergency #: _____

Nearest Phone: _____

Other Means of Summoning Help: _____

AUTHORIZED ENTRANTS:[illegible]

AUTHORIZED ATTENDANT:

Name	Signature	Department	Time

ENTRY SUPERVISOR:

Name	Signature	Department	Time

Return Expired Permit to Office

Appendix 6

Lockout-Tag out Instructions are found in site specific locations of each building inside the Facility.

There are hanging file holders with 3 ring binders in them found in each building with site specific instructions and pictures, for each piece of equipment that is located within that approximate location.

The main LOTO procedures manual is found in the Administration building as you walk in the main door. This manual has everything in the plant, that LOTO is required.

The Headwork's building LOTO binder is found in the Main Breaker room to the left of the door.

The UV building LOTO binder is found in the UV control room to the right.

The blower building LOTO binder is found to the left of the walk-in door beside electric panel.

After a piece of equipment has been determined in need of Lockout-Tag out devices you must fill out the Lockout / Tag out Permit before doing anything else. It must be approved by Supervisor or Plant Manager before doing any work. All required steps must be checked then verified complete, then the work can be started and completed.

All copies of LOTO permits must be kept and recorded on the annual log in the main LOTO manual in the Administration Building.



LOCKOUT/ TAGOUT PERMIT

Date: _____ Start Time: _____ Time Valid to: _____ (End of Shift)

Equipment to be Isolated: _____ Exact Location: _____
Purpose of Isolation: _____
LOTO procedure used: _____

GENERAL PREPARATIONS CHECKLIST: (Check All Items That Apply)

REQUIRED

VERIFIED COMPLETE

INITIAL

- ☐ Alliance Lockout/ Tagout Devices Applied
- ☐ Temporary Lines/Hoses Removed/ Isolated
- ☐ Energy Sources Locked/Tagged/Tried
- ☐ Notification of Affected Employees
- ☐ Other Applicable Permits (Hot Work, etc.)
- ☐ Additional PPE Required
- ☐ Lockout/ Tagout Devices Visible
- ☐ Special Requirements (List in Comments)

☐
☐
☐
☐
☐
☐
☐
☐

Comments: _____

ISOLATION AUTHORIZATION: _____
Supervisor Signature

Customer Health & Safety Representative
(If Applicable)

AUTHORIZED EMPLOYEES:

Name (Print)	Signature

Return Expired Permit to Safety Coordinator

Appendix 7

ReCAP
DEVIATION NOTIFICATION FORM

Date of Incident: Time: Division:

Location of deviation:

Type of deviation: ☐ W. Treatment ☐ Distribution ☐ W.W. Treatment ☐ Collections
Note: Double-click on checkbox and select 'Checked' under Default Value.

Description of deviation: ☐ SSO ☐ Bypass ☐ Pressure Loss ☐ Sample Analysis

SAMPLE TYPE & LIMIT	SAMPLE RESULT

How did we become aware of the issue:

Possible reason(s) for or event(s) leading to deviation:

Immediate corrective actions taken:

Further action planned to eliminate or reduce future incidents:

Other information or attachments:

Completed by: Title: Date Reported:

Who was notified?

Name Title Date Time
Comments

Completed form is to be filled out electronically and e-mailed with any other documentation through the Deviation Notification ReCAP mailbox no later than the next business day of the incident.

REPORT OF SANITARY SEWER OVERFLOW (SSO) OR WASTEWATER TREATMENT PLANT BYPASS

FACILITY INFORMATION	
PERMITTEE (MUNICIPALITY/DISTRICT & PLANT):	PERMIT NUMBER:
COUNTY:	PHONE NUMBER:

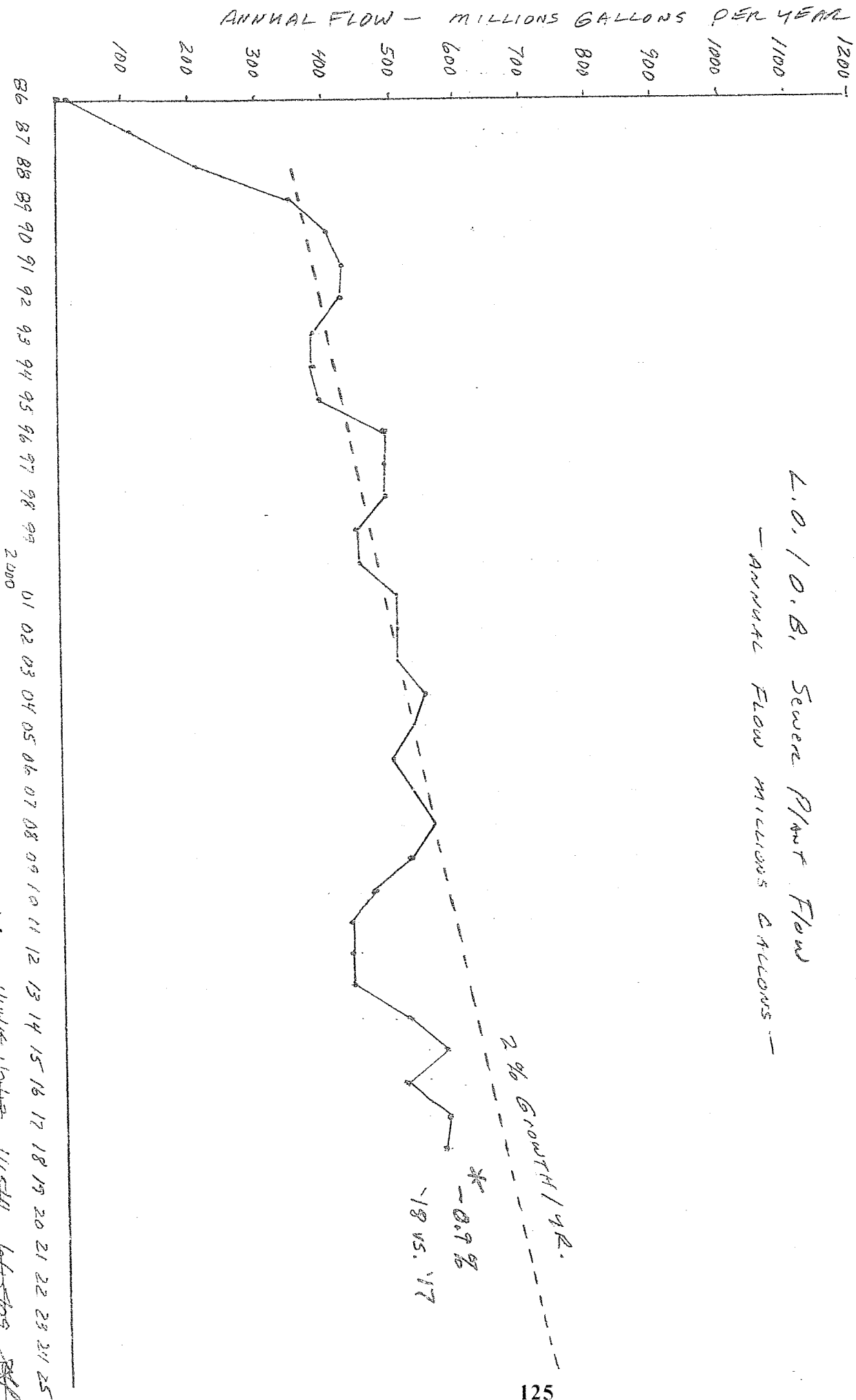
SSO OR BYPASS DETAILS	
a. Street Address/Landmark/Cross Street:	
b. Complaint Name & Telephone #:	
c. Start Date & Time	End Date & Time:
d. Total Time:	Volume (Gallons):
e. Categories of SSO	
☐ Vandalism ☐ Power Outage ☐ Broken Sewer ☐ Inflow & Infiltration ☐ Plugged Sewer ☐ Equipment Failure Rain Inches _____ Manhole location # _____ ☐ Widespread Flooding ☐ Other _____	
f. Categories of STP Bypass	
☐ Head Works ☐ Aeration/Biological Treatment ☐ Digester ☐ Primary Basins ☐ Clarifiers ☐ Solids Handling/Drying Beds ☐ Other _____	
g. Strength of SSO/Bypass: ☐ Raw (Dry weather SSO or Influent)	
☐ Partially Treated Bypass or Wet weather SSO Was sampling performed? ☐ yes ☐ no	
Type of Samples Taken: ☐ BOD ☐ TSS ☐ Fecal ☐ Ammonia ☐ DO ☐ Other _____	

WATERCOURSE INFORMATION	
a. Name of Receiving Stream:	Length Affected:
b. Discharge Course	
☐ Runs on ground and absorbs into the soil. ☐ Ditch. Name of surface water it drains to: _____ ☐ Storm sewer. Name of surface water it drains to: _____ ☐ Surface water direct discharge: _____ ☐ Other, describe: _____	

CORRECTIVE ACTIONS/CLEAN UP	
a. ☐ Flushing ☐ Removing ☐ Chemical Application ☐ Other: _____	
b. Describe detailed actions taken to correct & clean up the SSO/Bypass and any follow up actions:	
CLEAN UP PERFORMED BY: _____	

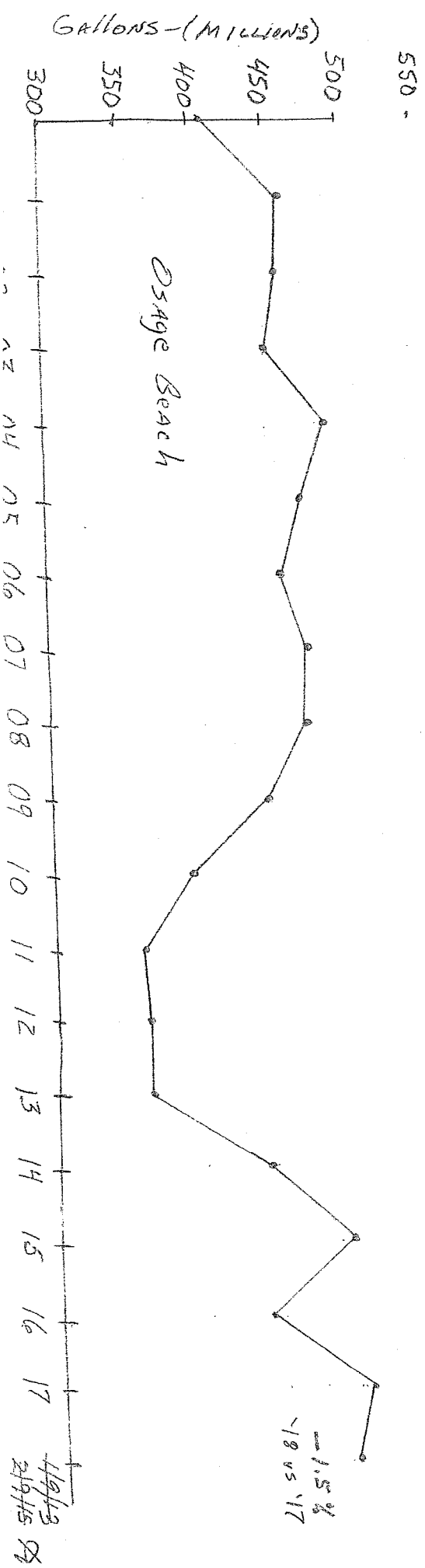
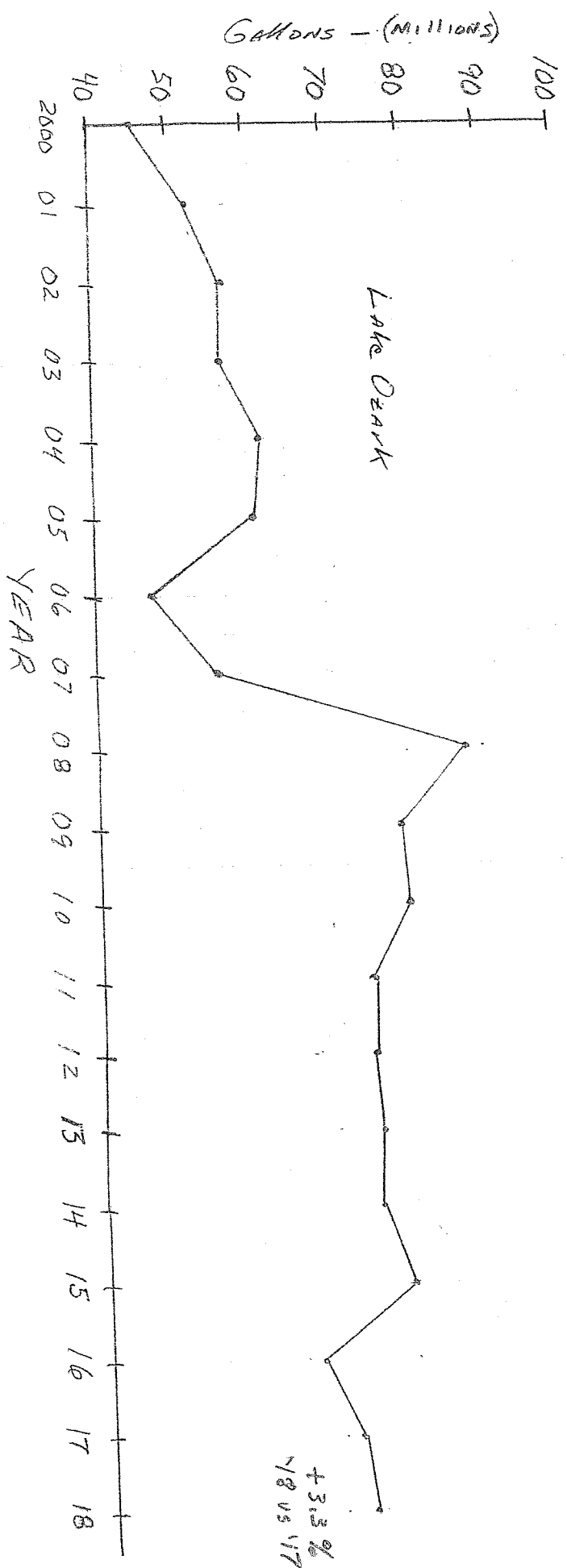
REPORT PREPARED/SUBMITTED BY	
NAME (PRINTED):	TITLE:
SIGNATURE:	DATE:

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SEWER FLOWS -
L.O. 0.8.

(2)



(3)

L.O. - O.B. SEWER PLANT GROWTH / CAPACITY PROTECTION

(X) July flow average 310M g/days

* THE MAJOR ASSUMPTION (ON PROTECTING FUTURE
GROWTH FROM THE PAST) IS YOU DO NOT EXPAND
THE GEOGRAPHIC AREA. *

