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

1. CALL TO ORDER

2. ROLL CALL

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

3. MINUTES

Regular Meeting; November 21, 2017

PAGE NUMBERS

3-4

PUBLIC COMMENT

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

4. REPORTS

5-28
29
31
33
35-40
41-76
45
63

5. OLD BUSINESS: None

6. NEW BUSINESS:

A. Discussion and possible action regarding approval of the Inventory List. 77-83

B. Discussion and possible action regarding the Emergency Response Plan. 85-120

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE FEBRUARY 20, 2018, 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD Meeting Minutes-November 21, 2017

CALL TO ORDER:

Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, November 21, 2017 at Lake Ozark City Hall

ROLL CALL:

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

MINUTES:

Public Works Director Edelman made a motion to approve the meeting minutes of October 17, 2017, seconded by Public Works Director Michalik. Motion passed unanimously.

REPORTS:

Public Works Director Michalik made a motion to approve the Bills List with the additional bill added from Roemer's Heavy Equipment, seconded by Alderman Murawski, motion passed unanimously.

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

Alliance Report of Operations: The average daily incoming flow for October was 1.575mgd. They had 7.4 inches of precipitation measured at the WWTP in October.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.0 mg/l and TSS of 1.5 mg/l respectively for October, which represents a 99.1 + % or better removal.

The MLSS average for both aeration basins was 3.739 mg/l in October. The total dry weight sludge inventory for October totaled 253,182 pounds. There were 20 tanker loads of 74,000 gallons of biosolids land applied in October. We also received 10 tanker loads or 23,500 gallons of septage for the month of October.

APPROVAL OF FLOW CHART

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

OLD BUSINESS: None

NEW BUSINESS:

A. Discussion and possible action on approval of the 2018 budget:

With no questions or comments, motion was made by Mayor Olivarri to approve the proposed 2018 Budget. The motion was seconded by Resident Member Hamner. The motion was then unanimously approved.

Alderman Ross had questions on the distribution of the monies for the generator. Mayor Franzeskos explained this has been an ongoing process and was approved to budget the expense in this manner in past sessions. Discussion was also held regarding bids for design companies. The committee is to research and report back in January.

B. Authorization to pay bills in December, due to "No December Meeting". Motion was made by Public Works Director Michalik to authorize payment, seconded by Public Works Director Edelman. Motion passed unanimously.

ADJOURNMENT:

At 4:40pm Public Works Director Michalik made a motion to adjourn, seconded by Alderman Ross, motioned passed unanimously.

Approved On:	
N	
Mayor, Johnnie Franzeskos	City Clerk, Kimberly Baker

JOINT SEWER BOARD BILL LIST JANUARY 16, 2018

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			TOTAL	\$	80,434.39
OPERATII	NG FUND	BILLS PAID PRIOR TO BOARD MI	EETING:		
Account 4150 4185 4000 4170 4150 4020 4150 4020	Check 3629 3630 3631 3632 3633 3633 3634 3635	Paid To: Roemer's Heavy Equip Ameren MO Equipment Replacement Fund Alliance Water Resources, Inc. Alliance Water Resources, Inc. Alliance Water Resources, Inc. Roemer's Heavy Equip Scott's Handyman Services	Description: Rebuild fuel pump Field Gimme Nov. Service Payment into ER Fund Management Fee Field Gymmy Inc. Grainger Supp Protector Brake wk 94 GMC Volvo Trk Paint RAS room/pipe TOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount: 2,293.40 3,738.46 3,467.00 25,935.82 208.96 138.99 2,436.92 6,675.00 44,894.55
OPERATIN	NG FUND	BILLS TO BE PAID:			
Account 4185 4000 4170 4020	Check 3636 3637 3638 3639	Paid To: Ameren MO Equipment Replacement Fund Alliance Water Resources, Inc. Alliance Water Resources, Inc.	Description: Dec. Service Payment into ER Fund Management Fee Calibration, testing for permit renewal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount: 3,909.17 3,467.00 26,584.22 564.48
			TOTAL	\$	34,524.87
EQUIPME	NT REPL	ACEMENT FUND BILLS PAID PRIC	OR TO BOARD MEETING:		
Account	Check 1023	Paid To; Alliance Water Resor	Description: SQD Control Reconditioned TOTAL	\$ 5	Amount: 1,014.97 1,014.97
EQUIPME	NT REPLA	ACEMENT FUND BILLS TO BE PA	D:		
Account	Check	Paid To:	Description:	\$	Amount:
			TOTAL	\$	**

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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 12/07/2017

FEB

Total Electric Charges

\$3,681.22

\$3,6B1.22

Total Amount Due

AMOUNT DUE

\$3.681.22

Due Date

Amount After Due Date

\$3,738.44

\$4,719.B6

Previous Statement **Total Payments**

Payment Received, Thank You.

\$4,719.88

01/02/2018

Electric Usago in Kilewatt Hours (kWh) 125000 t-00000 75000 50000 25000 JUL

60°F 68°F

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49%

74°F

78°F

Electric Usage Summary (kWh)

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

2616

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Grage from Jan-Dec for 2018 & 2017

Keeping You Informed.

DEC

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.

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Page I of 4



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

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1068

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 PD Box 86068 Chicago, IL 50680-1958 Anteren payment processing center

\$57.24

\$57.24

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Account Number 5580005920

Service Address

Customer Name ALLIANCE WATER RESOURCES INC

3 ANDERSON RD

LAKE OZARK, MD 65049

Current Detail for Statement 12/07/2017 **Total Electric Charges**

Total Amount Due

AMOUNT DUE

\$57.24

Due Date

01/02/2018

\$58.10

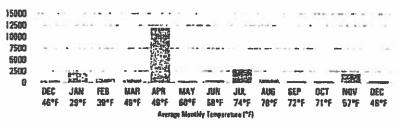
Amount After Due Date

Previous Statement

Total Payments Payment Received. Teahk You. \$154.57 \$154.57

- Electric Usage History 1

Electric Usage in Kilowatt Hours (kWh)



Electric Usego Summary (kWh)

So for this year, you're using 49.1% less than lest

2016

2817

Usage from Jen-Dec for 2016 & 2017

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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.



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Page 1 of 4



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Due Date: Amount Due January 02, 2018 Account Number 5580005820 \$58.10 Amount Enclosed ¢

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ALLIANCE WATER RESOURCES INC PO BOX 1885 LAKE OZARK, MO 65049-1985

AMEREN MISSOUR! PO BOX 8806B CHICAGO IL 60680-1068

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#Electric Service Details Service from 11/02/2017 - 12/05/2017 (33 days): Electric Motor Road METER NUMBER - SERVICE BEADING I CURRENT PREVIOUS READING MULTIPLIER USAGE THE READING DIFFERENCE 98041275 11/02 - 12/05 33 Total kWh 16232.0000 Actual 18190.D000 42,0000 10.0000 420.9000 96841275 11/02 - 12/05 33 Peak kW Actual 3,7550 0.0000 3.7550 0.0000 37.550D Vergo Summary Total kWh 420.0000 Winter Base kWh 1000.0000 Current Base kWh 420,0000 Seasonal kWh 0.0000 Rate 2M Sm Gen Sec - 3 Ph w/Dmd Threshold - Peak Demand DESCRIPTION USAGE UNIT RATE CHARGE Basa Energy Charge 420.00 4Wh £ 0.08360000 #35.11 Seasonal Energy Charge 0.00 kWh \$ 0.04820000 \$0.00 **Customer Charge** #21.43 Fuel Adjustment Charge 420.00 kWb \$-0.00025000 \$-0.11 **Energy Efficiency Program Chargs** 420.00 kWh **# 0.00010000** 6 \$0.04 **Energy Efficiency Investment Charge** 420.00 klth # 0.00182800 \$0.77 **Total Service Amount \$57.24 Total Electric Charges** \$57.24 - Paymonts Since Provides Statement - A Provides THE RESERVE OF THE PARTY OF THE

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Alliance Water Resources, Inc. Professional Water and Westewater Operations 206 South Keene Street Columbia, Missouri 65201 (573) 874-8980 Fax (673) 443-9833

INVOICE

Involce No:

7619

SOLD TO:

invoice Date:

1-Dec-17

Lake Ozark/Osage Beach Joint Utility Board c/o Karrl Ball City of Osage Beach 1000 City Parkway Osage Beach, MO 65085

Customer No:

20220

Terms:

30 days

REFERENCE	DESCRIPTION		AMOUNT
	Wastewater Plant operating service for month of: Base Fee	Dec-17	\$25,935.82
			
		TOTAL DUE	\$25,935.82

Alliance Water Resources, Inc.

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

INVOICE

Invoice No:

7620

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board

c/o Karri Bell

City of Osage Beach

1000 City Parkway Osago Beach, MO 65065 invoice Date:

1-Dec-17

Customer No:

20220

Terms:

30 days

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\$138,99		Grainger - Invoice #9610374523 - 50%	
\$1,014.97		Southland Electrical Supply - Invoice # 3071077	
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\$1,362.92	TOTAL DUE		

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SHIP TO

ALLIANCE WATER RESOURCES 3 ANDERSON RD LAKE OZARK MO 65049-0000

BILL TO ALLIANCE WATER RESOURCES PO BOX 1985 LAKE OZARK MO 65049-1985 PAGE 1

ORIGINAL INVOICE

GRAINGER ACCOUNT NUMBER INVOICE NUMBER INVOICE DATE DUE DATE 858374754 9610374523 11/08/2017 12/08/2017 \$291.93

PO NUMBER; CALLER; CUSTOMER PHONE; ORDER NUMBER;

INCO TERMS:

AMOUNT DUE

GARY GARY HUTCHCRAFT 5733650455 1305648102

NOV 1 0 2017

THANK YOU!

FOR QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-800-472-4643

	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
2GNL2	SUPP PROTECTR 20A 3P. C. 277/480VAC, 125VDC MANUFACTURER # MGZ 4469 Delivery #6377809077 Data Shipped: 1 1/08/2017 Carrier: UPS GROUND No of Pkgs: 1 W: 0.800 Trk #:122x98300336425364 SHIPPED FROM: DC FOUNTAIN INN 003 101 SOUTHCHASE BLVD, FOUNTAIN INN, SC 29644-9019 GL Acct#: 6705-20 152,94 1220 Signature: Jaux Atutury	20∜/:	257.00 38, 99	4020
	2GNL2	SUPP PROTECT R. 20A. 3P. C. 277/480VAC. 125VDC MANUFACTURER # MGZ4469 Delivery #6377809097 Data Shipped: 11/08/2017 Carrier: UPS GROUND No'of Pkgs: 1 Wt: 0.600 Trt #122X9830033842584 SHIPPED FROM: DC FOUNTAIN INN 003 101 SOUTHCHASE BLVD, FOUNTAIN INN, SC 29644-9019 GL Acctif: 6705-20 \$152,94 1220	SUPP PROTECTR 20A 3P.C. 277/480VAC. 125VDC MANUFACTURER # MGZ4469 Delivery #8377809097 Date Shipped:11/08/2017 Camber: UPS GROUND No of Pkgs:1 Wt: 0.800 Trk #:1ZXX86300336425364 SHIPPED FROM: DC FOUNTAIN INN 003 101 SOUTHCHASE BLVD, FOUNTAIN INN, SC 29644-9018 GL Acct#: 6705-20 152,94 1220-201/ Signature: //aux/fithtlury/	SUPP PROTECTR. 20A. 3P. C. 277/480VAC. 125VDC MANUPACTURER # MGZ4469 Deliver #8377809397 Date Shipped: 11/08/2017 Carrier: UPS GROUND No of Pkgs: 1 Wt: 0.800 Trt #:12X98300338425364 SHIPPED FROM: DC FOUNTAIN INN 003 101 SOUTHCHASE BLVD, FOUNTAIN INN, SC 29644-9019 GL Acct#: 6705-20 152,94 1220-204/38,99 Signature: 1 Aug Ratutlium 1

THIS PURCHASE IS GOVERNED EXCLUSIVELY BY ERAINCER'S TERMS OF SALE, INCLLIONG: RE DISPUTE RESOLUTION REMEDIES, AND (B) CERTAIN WARRANTY AND DAMAGES LIMITATIONS AND DISCLAMMERS IN EFFECT AT THE TIME OF THE ORDER, WISCH ARE INCOMPORTED BY REFERENCE HERBIN, ORANIGER'S TERMS OF SALE ARE AVAILABLE AT WWW. GRAINGER.COM PRODUCT RETURN BISTRUCTIONS ARE AVAILABLE AT WWW. GRAINGER.COMPRETURNS #WORCE SUB TOTAL 267.00 SHIPPING 10.95 TAX 13.95

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ACCOUNT NUMBER 858374754 DATE 11/08/2017 9610374523

AMOUNT BUE

\$291.93

FOR COMMENTS OR CHANGE OF ADDRESS, ENTER INFORMATION ON REVERSE SIDE

INVOICE



147 N Main Street - P.O. Box 1329 Burlington, NC 27217 Phone: 800.476.1486 - Fax: 336.222.1065

INVOICE Invoice Date								
3071077 12/5/2017								
ORDER NUMBER								
1062432								

Bill To:

Alliance Water Resources Inc PO Box 1985 Loke Ozark, MO 65049 US Ship To: Alliance Water Resources Inc #3 Anderson Rd Lake Ozark, MO 65049 US



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12/5/2017	2058081		Default Sales			Cathy Webs	ster	
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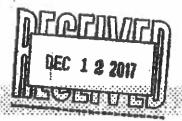
Date: 12/7/17

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Scott's Handyman Services 1256 Osage Beach Road Osage Beach, MO 65065 (573)748-1186 shs.homeoffice@gmail.com Job# 87694

Date 12/11/2017



INVOICE

Customer:

Joint Sewer Board P.O. Box 1985 Lake Ozark, MO 65049 Job Site Location/Address:

Joint Sewer Board #3 Anderson Road Lake Ozark, MO 65049

Item Description	Amount
Prime 1 cost Kem Kromike piping, valves and pumps. Paint piping Brown, 2 coats Alked Enamel. Paint valves Red 2 coats Alked Enamel. Paint pumps Grey 2 coats Alked Enamel. Paint pum Room walls White A100 Satin SW. Total Labor:	\$2,400.00
Miller County labor prevaling order # 24 applied	
	Pre-Total \$2,400.00 Labor \$4,275.00 Total \$6,675.00

Thank you for the opportunity,

William S. Rasmussen



- AmerenMissouri.com
- × 1.877.426.3736
- ≈ PO Box 88968 Chicago, IL 60680-1068 🖼 💆 Ameren payment processing center

FOCUSED ENERGY. For Life.

Account Number 4580005832

ALLIANCE WATER RESOURCES INC Customer Name Service Address

Electric Usago History 👯 🗝 🤥

3 ANDERSON RD, -

LAKE DZARK, MO 65049 Correct Detail (ouStatement 01/10/2018)

Total Electric Charges

\$3.759.58

Total Amount Due

\$3,759.5B Amount After Due Date

Due Date

Previous Statement Total Payments

Payment Received, Thank You.

AMOUNT DUE

\$3,759.58

02/01/2018

\$3,815.97

\$3,681.22

\$3,681.22

Electric Usage in Kilewatt Hours (kWh) 125000 100000 75000 50000

25000 AllG B8°F 74°F 78°F 72°F

Average Monthly Temperature (°F)

57°F

Electric Usage Summary (kWh)

So for this year, you've using 23.9% more than Last

year. 2017

Usage for Jan 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.



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Page 1 of 4



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Dellinguent Amount After Due Date:

\$3,815.97

February 01, 2018 Account Number

4590005832

Amount Enclosed \$

>000142 2299791 0002 092139 102

ALLIANCE WATER RESOURCES INC PO BOX 1985 LAKE DZARK, MO 65049-1885

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 50680-1068

4060000 0045800058302 000003759580 000003759580



- AmerenMissouri.com
- = 1.877.426.3736
- PO Box 98068 Chicago, IL 60680-1868

FOCUSED ENERGY. For life.

-		THE REAL PROPERTY AND ADDRESS OF THE PERTY		477047747840				-	Secretary and Secretary in	
M: TERA	UMBER SERVICE 1	ND. DAYS	USAGE	HEADING	CURRENT READING	PREVIOUS	REAL DIFFER	PROPERTY OF THE	MANUAL PRINTER	USAGE
11673321	12/05 - 01/08	34	Total Wills	Actual	44532.0000	44101.0000	4:	1,0000	160.0000	60060.0000
11673321	12/05 - 01/08	34	Peak kW	Actual	0.6400	0.0000		Ó.6400	160.0000	102,4000
Usage Sun	amery				77					
	Total kWh				69960.0000	Peak kW				102.4000
	Total Billing Demand				102,4000	October Wi	inter Base	kW		131,2000
	Winter Base Demand				102,4000	Base kWh	Ratio			1.0000
	Base kWh (HUD)				68960.0000	Seasonal k	Wh (HUD)			0.0000
Rate 3M L	erge General Service									
	DESCRIPTION				USAGE	UNIT			RATE	CHARG
	Seasonal Energy Charge				0.00	kWh	@	\$ 0.03E	020088	\$0.00
	Demand Charge				102.40	kW	6	\$ 2.000	300000	\$204.80
	Base Energy Charge / Hou	jr a U sed			15,360.00	kWh	6	♦ 0.068	560 0 00	#1,021.44
	Base Energy Charge / Hos				20,480.00	kWh	6	1 0.048		11,011.71
	Basa Energy Charge / Hos	ers Used			33,120.00	kWh	6	10.038	390000	11.288.37
	Customer Charge				66 DEG 50	A.1941.		4 0 000	30000	\$95.07
	Fuel Adjustment Charge	n Marri			68,960.00 69,960.03	kWh kWh	6	\$-0.000 \$ 0.000		\$-17.93 \$13.79
	Energy Efficiency Program Energy Efficiency Investor	-			68.960.00	kWh	@ @	\$ 8.002		\$13.71
	ENGINE STREETS A BLACKER	HEIN PHA	i fin		00.200.00	KIYII	-	Sarvice A		\$3,759.58
							I UUM		HIJUNIA.	9-1-100-06

QATE RECEIVED December 28, 2017 AMOUNT \$3,681.22

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

Page 2 of 4

Address Changes or Cerractions	Amer	enMissouri.co	nı/Waş	sToPay		
Name	15	ONLINE E-CHECK	1	PHONE 866.268.3729	9	IN PERSON FIND A PAY STATION AT AMERICANIES OUR LCOM/
City, State, ZipPhone Number		ONLINE CREDIT CARD	<u></u>	MAIL STUB & CHECK		PAYSTATION



- AmarenMissouri.com
- **1.677.426.3736**
- PD Box 88068 Chicago, IL 60680-1069 📳 🛂 Amoren payment processing center

\$149.59

FOCUSED ENERGY. for Life.

Account Number 5580605920

Customer Name ALLIANCE WATER RESOURCES INC

Service Address **3 ANDERSON RD**

LAKE DZARK, MO 65049

Current Botall for Statement 01/10/2018: 1997 **Total Electric Charges** \$149.59

Total Amount Due

AMOUNT DUE

\$149.59

Due Date

02/01/2018

Amount After Due Date

\$57.24

\$57.24

Previous Statement Total Payments

Payment Received. Thank You.

etric	Vsage :	in Killon	watt H	ours (kt	Yh)									Electric !	Usage Summary (kWh)	
000 500	*			juegg			* 1	1	1,	20				So far tiña year.	year, you've using 12.7% less than last	
00 00 100		ē.		黱	: 22							k		2017 12 2017 12 2.	130 km	
00	JAH 29°F	FEB 39°F	MAR 49°F	APR 49°F	MAY 60°F	JUN 65°F	JUL 74°F	AUG 78°F	SEP 72°F	OCT 71°F	ESSI MOV 57°F	DEC 48°F	JAN 27°F	2018	16 860 km	

Keeping You Informed.

Update your account information so we can contact you when craws 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.



33 See next page for service details.

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Page 1 of 4



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Please ratum this portion with your payment,

Due Data 1149.58 February 01, 2018 Delinguent Amount After Dun Date ! Account Number \$151.83

5580005920

Amount Englosed \$

>000291 2299791 0002 092139 10Z

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

AMEREN MISSOURI PO BOX 88068 CHICAGO !L 6068G-1068

50633000 0055800059200 000000149590 00000149590



FOCUSED ENERGY. For life.

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							•	7	otal	Electric Ch	arnes	\$149.59

‡57.24

Questions? Contact Ameren Missouri at 1.677.426.3736 or visit Ameren Missouri.com.

Page 2 of 4

Address Changes or Corrections	Amere	mMissouri.com	n/Way	sToPay		
Name	15	ONLINE E-CHECK	B	PHONE 866.268.3729	4	IN PERSON FIND A PAY STATION AT
Chy, State, ZipPhene Number		ONLINE CREDIT CARD		MAIL STUB & CHECK		AMERENMISSOURI COM/ PAYSTATION

Alliance Water Resources, Inc. Professional Water and Westowater Operations 206 South Keene Street Columbia, Missouri 65201 (573) 874-8080 Fax (673) 443-0833

INVOICE

Invoice No:

7658

GOLD TO:

Invoice Date:

1-Jan-18

Lake Ozark/Osage Beach Joint Utility Board c/o Karri Beli

City of Osage Beach 1000 City Parkway Osage Beach, MO 66085

Customer No:

20220

Terms:

30 days

REFERENCE	DESCRIPTION		AMOUNT
	Waslewaler Plant operating service for month of; Base Fee	Jan-18	\$26,584.2 2
	li W		
		·	
			,
		TOTAL DUE	\$26,584.22



November 27, 2017

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

Board of Directors:

As per the terms and conditions of the Alliance O&M Agreement, the base fee is adjusted on January 1st each year to reflect the change in the Consumer Price Index and the other terms of the agreement.

The Agreement specifies the use of the Department of Labor's CPI- All Urban Consumers Midwest -- Size Class D, not seasonally adjusted (Scries ID: CUURD200SA0). The most recent CPI data used to calculate the 2018 base contract fee was September 2017. Accordingly, the 2018 base contract fee will use the 12 month period from October 2016 through September 2017.

The appropriate indices and resulting contract adjustment is calculated as follows:

CPI September 2017 226.242 CPI October 2016 223.683

> CPI Increase = (226.242 - 223.683) / 223.683 = + 1.1%

Per contract, the base fee is adjusted annually at the CPI percentage increase/decrease plus 0.5% but not less than 2.5% annually nor more than 6.5% annually. The CPI adjustment plus the 0.5% is 1.6%, therefore the base rate is adjusted at + 2.5% beginning January 2018.

Adjusted O&M Fee:

Previous Monthly Fee = \$25, 935.82 x 1.025 New Monthly Fee = \$26,584.22

The invoice for January 2018 will reflect the new base fee of \$26,584.22 per month.

On behalf of Gary Hutcheraft, and our entire staff at Alliance Water Resources, thank you for letting us be of service to your communities.

Sincerely,

Alliance Water Resources

Gary Johnson Divisional Manager

cc: Board of Directors Tim Geraghty Gary Hutcherns A to Z Index | FAQs | About BLS | Contact Us | Subscribe to E-mail Updates

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Change Output Options:

From: 2007 V To: 2017 V

☑ Include graphs ☐ Include annual averages

More Formatting Options

Data extracted on: November 6, 2017 (10:05:05 AM)

CPI-All Urban Consumers (Current Series)

Series Id:

CUURD200SA0

Hot Seasonally Adjusted

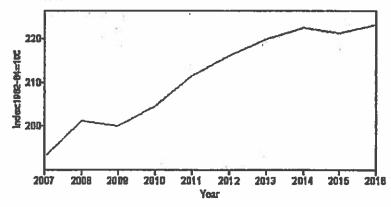
Series Title: All items in Hidwest - Size Class D, all urban consumers, not sessonally adjusted

Aroa: Item:

Hidwost - Sizm Class D

Base Poriod:

All items 1982-84-100



Download: [] :dax

Year	Jon	Feb	Mar	Apr	May	Jun	Jul .	Aug	Sep	0ct	Nov		Annual		
					193.467										
					202.720										
					198.911										
					204,026										
					212.210										
					215.251										
					220.614										
					223.215										
					221.748										
					224.110						222.632	223.039	223.151	222.580	223.722
2017	22-1.482	224.793	225.085	225.050	225.144	225.745	226.194	226.956	226.242					225.350	

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

INVOICE

Invoice No:

7659

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

Invoice Date: **Customer No:** 1-Jan-18

20220

Terms:

30 days

REFERENCE	DESCRIPTION	AMOUNT
	TG Technical Services - Invoice #14472 - 50%	\$61.48
	Pace Analytical - Invoice #1760041150	\$503.00
	(W	
	96	
		1
	TOTAL DUE	\$564.48

TG Technical Services P.O. Box 775 613 SW 3rd. Street - Suite B Lees Summit, MO 64063

Invoice

Date	invoice #
12/4/2017	14472

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

Ship To	250 4.0
Alliance Water Resources Gary Hutchcraft	
# 3 Anderson Road Lake Ozark, MO 65049	
	DEC 0 8 2617

P.O. Number	Terms	Rep	Ship	Via	F.O.B.		
	Net 30	вк.	12/4/2017	Federal Express	PP & A		
Quantity	Item Code		Descri	plion	Price	Each	Amount .
1	3-34SG-IH	Xam-2000, SN Shipping and I FEDEX 78874 Sales Tax - Let	#:	20 ⁴ 71.12 About 12.12	1220-2046	110.00 12.95 7.85%	110.00T 12.957 9.65
916 62	4-8100		julia@tgtechs	aminer com	Balar	rce Due	\$132.60



INVOICE

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

Involce Number: 1760041150

Date: 12/26/2017

Total Amount Due: \$503.00

Sold To:

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



Please Remit To:

Pace Analytical Services, LLC P.O. Box 684056

Chicago, IL 60695-4056

Client Number/Client ID:	Purchase Order No. Pacs Project High Heather Wilson	Terms Net 30 Days	, Page 1
60-041001 17 million can			

Client Project: EXPANDED EFF TEST # 1

Pace Project No: 60260023

Report Sent To: Gary Hulchcraft, Alliance Water Resources

Comments:

Client Name: Alliance Water Resources_Lake Ozark MO Sample Received: 12/12/2017

Duantity Unit	Description	Method	Matrix	Price	Tota
1 Ea	200.7 Metals, Total + Hardness	EPA 200.7	Water	\$26.00	\$26.00
	200.8 ICPMS Metals	EPA 200.B	Water	\$112.00	\$112.00
1 Ea	245 1 Mercury	EPA 245.1	Water	\$20.00	\$20.00
1 Ea		SM 4500-CN-E	Water	\$35.00	\$35 00
1 Ea	4508CNE Cyanide, Total	EPA 624 L OV	Water	\$85.00	\$85 00
1 Ea	624 Volati e Organica		Water	\$165.00	\$185.00
1 Ea	625 Semivolatile Organics	EPA 625		\$25.00	\$25.00
t Ea	Chromium, Hexavalent	SM 3500-Cr B	Water	•	+
1 Ea	Shipping/Courier Charges	Miscellaneous Charges	Water	\$0.00	\$0.00
1 Ea	Trivalent Chromium Calculation	Trivatent Chromium Calc	Water	\$15.00	\$15.00
				Analytical Subtotal	\$503.00

\$503.00 Total Number of Charges 9 Total Invoice Amount

Samples Received for analysis:

Ctlent Sample ID Lab ID EXPANDED EFF TEST #1 60260023001

Received 12/12/2017

If you have any questions, please contect Heather Wilson at Pace.

Phone: 1(913)553-1407 Email: healther.wilson@pacelabs.com

**1.5% MONTHL	Y FINANCE CHAI	RGE ASSES	SED AFTER 30 DAYS	OR TERMS OF CONTR	ACT.	•
		IT 110/010E	MURRED ON ALL DE	MITTANCE ADVICE		oven.
lete and return copy o	finvoice with your pay	ment FIRST R	OUNDOF TESTING	FOR PERMIT RE	hewa c	DTEK
ETOTAL	\$503.00	4020	GL Acct#:	1220-20	100%	

Page 1 of 1

PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTA LOST ROWWIND F TESTING Pli

Please complete and return copy of involu-	ce with your pay	ment F77,57 /V	יסנאוגים
INVOICE TOTAL	\$503.00	4020	G

20-	-20	100%
2	1	<u> </u>

Amount Pald:	\$
Amount Pald:	\$

Signature:

Customer No: 60-531557 Involce No: 1760041150

Check No:

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

			42/34/2017				
Account	Account Number Account Name	2015 Actual	2016 Actual	2017 Budget	2017 Actual as of 12/31/2017	2017 December Revenue	Percent YTD
3020 3010 3100 3060	Osage Beach Lake Ozark interest Waste Haulers' Fee	477,172.03 72,827.98 54.79 32,400.00	475,802.57 74,197.42 368.52 33,460.00	473,000.00 77,000.00 200.00 35,000.00	478,614.41 71,385.58 781.57 30,500.00	39,888.83 5,944.50 61.64 700.00	101% 93% 391% 87%
	Total Operating Fund	582,454.80	583,828.51	585,200.00	581,281.56	46,594.97	%66
	E/R Fund Income	2,188.83	2,847.67	1,500.00	1,452.72	84.31	%26
	TOTAL INCOME	584,643.63	586,676.18	586,700.00	582,734.28	46,679.28	%66

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MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 12/31/2017

	× × × ×
100% 464% 98% 151% 100% 0% 0% 0% 92% 29%	89% 1,500.00 1,500.00 8,000.00 2,000.00 1,000.00 7,000.00 28,000.00
3,467.00 0.00 7,022.95 0.00 25,935.82 3,738.46 0.00 0.00 0.00 0.00 0.00 1,014.97	43,616.12 lewal Bldg valve pits at
41,604.17 0.00 129,789.11 17,144.00 12,047.61 8,000.00 311,229.84 69,261.90 24.35 2,200.00 1,200.00 1,200.00 592,500.98	671,554.00 600,055.66 43,616.12 Maintenance & Repair Auto Dialer Yrly Software Fee Effluent Testing for Permit Renewal Normal Maintenance UV Spere Parts Rock for Road Strip and refinish tile in Admin Bldg Paint RAS room/pipe gallery & valve pits at #1 Aeration Basin grit removat
41,604.00 0.00 28,000.00 17,500.00 8,000.00 312,750.00 77,000.00 2,200.00 150,000.00 645,054.00	**Maintenance & Repair Auto Dialer Yrly Software Fee Effluent Testing for Permit Re Normal Maintenance UV Spere Parts Rock for Road Strip and refinish tile in Admin Paint RAS room/pipe gallery 8 #1 Aeration Basin grit remov
41,606.04 0.00 18,735.50 16,977.00 951.93 8,000.00 303,638.88 72,637.17 14.85 2,158.50 9,193.09 0.00 473,912.96	× × × × × × × × × × × × × × × × × × ×
41,606.04 0.00 33,878.90 16,306.00 1,508.78 8,000.00 2,96,233.08 76,751.19 0.00 2,369.99 0.00 2,369.99 1,869.72	480,523.70 10,000.00 7,500.00 5,000.00 4,000.00 26,500.00 5,000.00 5,000.00 8,000.00
Equipment Replace Fund ERF Repayment "Maintenance & Repair Insurance ""Vehicle Repair/Maint Haulers Fees to Contractor Contract Management Electric Bank Charges Audit Professional Service Capital Purchases Totals	"Equipment & Replacement Normal E/R Replace impellers for RAS pumps Rebuild Arm Support Clarifier #2 Replace doors "Vehicle Repair/Maint Vehicle Maintenance Tires for Sludge Truck
4000 4010 4020 4140 4150 4160 4185 4190 4220 4240	"Equipment & Replace Normal E/R Replace impellers for R/R Rebuild Arm Support Cla Replace doors ""Vehicle Repair/Maint Vehicle Maintenance Tires for Studge Truck
	Equipment Replace Fund 41,606.04 41,606.04 41,604.00 41,604.17 3,467.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY 12/31/2017

Beginning Balance	273,903.59
Income - Osage Beach Income - Lake Ozark	39,888.83 5,944.50
Income - Other	0,011.30
Income - Waste Haulers' Fees	700.00
Interest - Checking	61.64
Income - CD Interest	-
Transfers From E/R Fund	44
Transfers to E/R Fund	(3,467.00)
Expenses	(39,134.15)
Ending Fund Balance	277,897.41
Central Bank - NOW Acct.	126,898.96
First Bank of the Lake - Money Mkt.	100,734.77
CD St. Elizabeth, 3/18 #400886	50,263.68
Outstanding Checks:	•
Deposit in Transit:	•
	277,897.41

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 12/31/2017

Beginning Balance	520,223.39
Interest - Checking Income - CD Interest Transfers From E/R Fund Transfers to E/R Fund Income - Miscellaneous Expenses	84.31 - 3,467.00 - (1,014.97)
Ending Fund Balance	522,759.73
First Bank of the Lake - Money Mkt. CD Providence Bank, 7/18 #1268880 CD First Bank of the Lake, 01/18 #101318429 CD St. Elizabeth, 3/18 #485431 Deposit in Transit Outstanding Checks:	168,826.14 202,070.98 101,598.93 50,263.68

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Operating Fund
CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 8/31/17				97,145.31
3613	Ameren MO	Х	9,666.03	•	87,479.28
3614	Equipment Replacement Fund	Х	3,467.00		84,012.28
3615	Alliance Water Resources, Inc.	Χ	25,935.82		58,076.46
3616	Alliance Water Resources, Inc.	Х	962.21		57,114.25
3617	Mission Communications LLC	X	407.40		56,706.85
3618	JCI Industries	Х	1,995.00		54,711.85
	Deposit LO	Х	-	5,499.54	60,211.39
	Deposit OB	Х		40,333.80	100,545.19
	Deposit	X		4,880.00	105,425.19
	Interest	X		8.54	105,433.73
	reconciled balance 9/30/17				105,433.73
3619	Ameren MO	Х	5,246.28	-	100,187.45
3620	Equipment Replacement Fund	Х	3,467.00		96,720.45
3621	Alliance Water Resources, Inc.	Х	25,935.82		70,784.63
3622	Alliance Water Resources, Inc.	Х	161.32		70,623.31
3623	John Henry Foster	X	1,171.19		69,452.12
	Deposit LO	X	-	5,863.04	75,315.16
	Deposit OB	Х		39,970.29	115,285.45
	Deposit	Х		940.00	116,225.45
	Interest	Х		9.68	116,235.13
	reconciled balance 10/31/17				116,235.13
3624	Ameren MO	X	4,874.43	-	111,360.70
3625	Equipment Replacement Fund	Х	3,467.00		107,893.70
3626	Alliance Water Resources, Inc.	X	25,935.82		81,957.88
3627	Alliance Water Resources, Inc.	X	1,028.14		80,929.74
3628	UV Doctor Lamps LLC		2,199.73		78,730.01
3629	Roemer's Heavy Equip & Truck	X	2,293.40	-	76,436.61
	Bank charage - checks	X	24.35	-	76,412.26
	Deposit LO	X	-	5,831.73	82,243.99
	Deposit OB	Х		40,001.61	122,245.60
	Deposit	X		700.00	122,945.60
	Interest	X		10.59	122,956.19
	reconciled balance 11/30/17				122,956.19
3630	Ameren MO	Х	3,738.46	•	119,217.73
3631	Equipment Replacement Fund	Х	3,467.00		115,750.73
3632	Alliance Water Resources, Inc.	X	25,935.82		89,814.91
3633	Alliance Water Resources, Inc.	Х	347.95		89,466.96
3634	Roemer's Heavy Equip & Truck	Х	2,436.92	-	87,030.04
3635	Scott's Handyman Services	X	6,675.00	60	80,355.04
	Deposit LO	Х	•	5,944.50	86,299.54
	Deposit OB	X		39,888.83	126,188.37
	Deposit	X		700.00	126,888.37
	Interest	X		10.59	126,898.96
	reconciled balance 12/31/17				126,898.96

En



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

RETURN SERVICE REQUESTED

Interest rate

Annual percentage yield earned

Interest earned year to date

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

Period	Page	
12/01/2017 - 12/29/2017	1 of 2	
Web Address		
www.centralbank.net		

9000

Your Financial Summary on December 29, 2017

Bank Deposit Accounts: Checking Bank Deposit Total Total Assets:		Ba	nk Deposits	Totals		
		\$				126,898.96
					\$	
		\$	126,898.96		\$	126,898.96
	Deta	iled Explanation of	Account Bala	nces and Oi	ther Assets	
Basic Plus Inter	est Checki	ng				
No. 000007297 Beginning Ba		Beginning Balance No	ovember 30, 2017	,	s	125,155,92
Deposits Dec. 22 Deposi Dec. 22 Deposi Dec. 22 Deposi Dec. 29 Interes	R .					700.00 5,944.50 39,888.83 10.59
Objection			Total		+\$	46,543.92
Checks	Dale			Dale		
Check No.	Paid	Amount	Check No.	Paid	Amount	
3628 3630 3631 3632	Dec. 04 Dec. 29 Dec. 26 Dec. 22	2,199.73 3,738.46 3,457.00 25,935.82	3633 3634 3635	Dec. 22 Dec. 20 Dec. 18	347.95 2,436.92 6,675.00	
			Total		-\$	44,800.8
		Ending Balance Dece	mber 29, 2017		\$	126,898.96
Number of days si Beginning and end Average collected	ding dates fo	ement/interest cycle r calculation of statemen	31 nVinterest cycle ar 124,658.00	re 12/01/2017 (hrough 12/31/2017	

End of Bank Deposits

0.10%

0.10%

92.88



P.O. Bux 4300, 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 65065-3858

Period	Page
11/01/2017 - 11/30/2017	1 of 3
Web Address	
www.centralbank.net	· · · · · · · · · · · · · · · · · · ·

M 000007

Your Financial Summary on November 30, 2017

Book Dies	4 6		Ban	k Deposits			Totals
Bank Dep Checking Bank Dep	g		\$	125,155.92			
Total Ass		34	-				125,155.92
I OIBI ASS	e(s:		\$	125,155.92		\$	125,155.92
_		Det	ailed Explanation of	Account Bala	nces and O	ther Assets	
Basic Plu	ıs inter	est Checl	king				
No. 0000	07297		Beginning Balance Oct	ober 31, 2017		s	116,235.13
Deposits						•	. , 0,200.10
Nov. 21	Deposit						5.831.73
Nov. 21 Nov. 27	Deposit Deposit						40,001.51
Nov. 30	Interest						700.00
		—— 1100					10.59
				Total		+\$	46,543.93
Checks		B-1-					
Ch	eck No.	Dale Paid	Amount	Check No.	Date Paid	. 0	
	3624	Nov. 28	4,874.43	3627	Nov. 29	Amount 1.028.14	
	3625	Nov. 28	3,467.00	3629	Nov. 30	2.293.40	
	3626	Nov. 29	25,935.82				
				Total		-S	37,598,79
Withdrawals	s and other	er charges				-	01,000,10
Date	Type		Transaction Description				
Nov. 01	HARLAI	ND CLARKE	CHK ORDERS				24.35
				Total		-\$	24.35
			Ending Balance Novem	ber 30, 2017		\$	125,155.92

JSB - CHECK REGISTERS 2017

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 8/31/17				258,614.51
	Interest	X		103,12	258,717.63
	Deposit	X		3,467.00	262,184.63
	reconciled balance 9/30/17				262,184.63
1022	National Vacuum Equip/OB	X	2,368.69		259,815.94
	Interest	X		115.24	259,931.18
	Deposit	Х		3,467.00	263,398.18
	reconciled balance 10/31/17				263,398.18
	Interest	X		108.34	263,506.52
	Deposit	X		3,467.00	266,973.52
	reconciled balance 11/30/17				266,973.52
1023	Alliance Water Resources		1,014.97		265,958.55
	Interest	X		135.36	266,093.91
	Deposit	Х		3,467.00	269,560.91
	reconciled balance 12/31/17				269,560.91



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

536 00010 01 **DOCUMENTS:**

PAGE: 12/29/2017

2

00120 2818360 10Z ATM 608.70.1.5

LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT 蹬 SEWER BD.-TREATMENT PLANT BD. 1000 CITY PKWY **OSAGE BEACH MO 65065-3058** તામુક્તાનાના મુજબારા મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે મુખ્યત્વે



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BUSINESS MONEY MARKET ACCOUNT 101318411 (BUSINESS MONEY MARKET)

> LAST STATEMENT 11/30/17 266.973.52 2 CREDITS 3,602.36 1 DEBITS 1,014.97

THIS STATEMENT 12/29/17 269,560.91

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE......AMOUNT 12/22 3,467.00

- - - - - OTHER CREDITS - - -DESCRIPTION

DATE **AMOUNT** INTEREST 135.36

CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT 1023 12/22 1,014.97

AVERAGE LEDGER BALANCE: 267,649.94 INTEREST EARNED: 135.36 AVERAGE AVAILABLE BALANCE: 267,052.18 DAYS IN PERIOD: 29 INTEREST PAID THIS PERIOD: .64%

CONTINUED * * *

135.36 ANNUAL PERCENTAGE YIELD EARNED: INTEREST PAID 2017: 1,286.11







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

536 00010 01 DOCUMENTS:

PAGE: 1 11/30/2017

DD124 2791085 10Z ATM 608,65.1.5

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



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BUSINESS MONEY MARKET ACCOUNT 101318411 (BUSINESS MONEY MARKET)

> LAST STATEMENT 10/31/17 263,398,18 2 CREDITS 3,575.34 DEBITS .00

THIS STATEMENT 11/30/17 266,973.52

- - - - - DEPOSITS - - - - - -REF #.....DATE.....AMOUNT REF #.....DATE......AMOUNT REF #.....DATE......AMOUNT 11/27 3,467,00

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

DESCRIPTION DATE **THUOMA** INTEREST 11/30 108.34

----- INTEREST ----.....

AVERAGE LEDGER BALANCE: 263,860.44 INTEREST EARNED: 108.34 AVERAGE AVAILABLE BALANCE: 263,629.31 DAYS IN PERIOD:

30 INTEREST PAID THIS PERIOD: 108.34 ANNUAL PERCENTAGE YIELD EARNED: .50%

INTEREST PAID 2017: 1.150.75

CONTINUED ...





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.

REPORT OF OPERATIONS

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

Month of November 2017

Submitted by Alliance Water Resources, Inc. for the

January 2018

Joint Sewer Board Meeting

Alliance Water Resources, Inc.

206 S. Keene St. Columbia, MO 65201

(573)874-8080

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	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.7	1.7	N/A	0	0.06	< 5.0	< 1.0
Peak Day	1.8	2.3	8.1	0	0.10	< 5.0	< 1.0
Percent Removal	99.3	99.5	N/A	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l		рH	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average Weekly Average	30 45	30 45	6-9	N/A N/A	2.7	10	4.0
Daily Max	40	40		N/A	11.5	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.265 MGD or 42% of Permitted flow with Lake Ozark contributing 11% of the total flow and Osage Beach contributing 89%. 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 77774 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 20 tanker loads of bio-solids during the month equivalent to a total of 74,000 gallons and 21,292 pounds dry weight solids.

505,794 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 360,000 gallons with a level of 4.5 feet in Tank 1 and 3.5 feet in Tank 2.

WASTEHAULERS

The plant received 10 loads of septage during the month totaling 17,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We shut down the UV system on the 1st of November.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- The newly rebuilt RAS pump had to go back to JCI on the 7th of November due to the mechanical seal leaking and upon them checking it out further they said the seal housing was wore out allowing the seal to spin in the casing. JCI said that the seal housing wasn't covered under warranty but the labor would be. It will cost another \$1,800 for the housing so I contacted the Joint Sewer Board via/email on the 1st of December for approval and everyone that responded back gave me their yes vote/approval.
- We had a float switch in the lift station at the digesters go bad on us on the 15th of November and we replaced it with a spare that we had in inventory that same day.
- The paint contractor got started on the pipe gallery paint project on the 20th of November and is expecting to be complete sometime during the week of December 11th or before.
- We got the UV banks pulled, cleaned and stored in the UV room on the 21st of November.
- The sludge trucks brakes started locking up on us on the 22nd of November and we called Larry Roemer and ask him to go out to the field where the truck was to see if he could get them to unlock and get it to his shop. After getting it to the shop he found that the air pods on each axle was leaking and the brakes were in desperate need of replacement. After getting a quote from Larry for \$2,500 to \$3,000 to make it road worthy I contacted the Joint Sewer Board members via/email on 1st of December and ask for approval and everyone that replied gave me their yes/approval.

SAFETY

 We conducted our monthly routine Safety Meeting on Chlorine Safety on the 14th of November.

REGULATORY AGENCY, INSPECTION AND REPORTS

We filled out the EDMR on MDNR's website on the 8th of December.

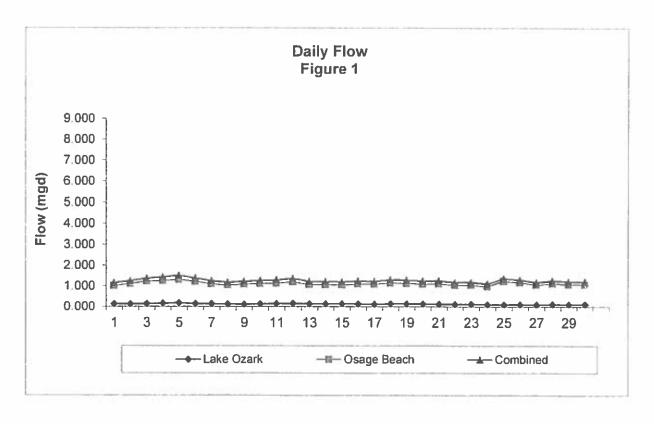
MISCELLANEOUS AND RECOMMENDATIONS

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TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 2017

DATE			F	LOW			В	OD 5 M	G/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	0.136	1.017	1.153	11.8	88.2								
2-Nov	0	0.140	1.109	1.249	11.2	88.8								
3-Nov	0	0.142	1.223	1.365	10.4	89.6	160	280	305	98	182	47		
4-Nov	0	0.167	1.262	1.429	11.7	88.3								
5-Nov	0	0.190	1.315	1.505	12.6	87.4								
6-Nov	0	0.155	1.226	1.381	11.2	88.8								
7-Nov	0	0.149	1.103	1.252	11.9	88.1								
8-Nov	0	0.134	1.048	1.182	11.3	88.7								
9-Nov	0	0.126	1.092	1.218	10.3	89.7								
10-Nov	0	0.145	1.121	1.266	11.5	88.5	233	220	265	246	148	42		
11-Nov	0	0.161	1.138	1.299	12.4	87.6					- 110			
12-Nov	0	0.165	1.208	1.373	12.0	88.0					$\overline{}$			
13-Nov	0	0.153	1.076	1.229	12.4	87.6								
14-Nov	0.1	0.143	1.074	1.217	11.8	88.2								
15-Nov	0.1	0.153	1.054	1.207	12.7	87.3								
16-Nov	0	0.144	1.103	1.247	11.5	88.5								
17-Nov	0	0.131	1.098	1.229	10.7	89.3	185	200	230	166	152	24		
18-Nov	0	0.151	1.160	1.311	11.5	88.5								
19-Nov	0.3	0.154	1.140	1.294	11.9	88.1								
20-Nov	0	0.148	1.101	1.249	11.8	88.2								
21-Nov	0	0.135	1.124	1.259	10.7	89.3								
22-Nov	0	0.133	1.049	1.182	11.3	88.7	140	218	183	102	194	160		
23-Nov	0	0.134	1.054	1.188	11.3	88.7								
24-Nov	0	0.119	0.992	1.111	10.7	89.3								
25-Nov	0	0.117	1.250	1.367	8.6	91.4								
26-Nov	0	0.122	1.182	1.304	9.4	90.6								
27-Nov	0	0.108	1.074	1.182	9.1	90.9								
28-Nov	0	0.133	1.127	1.260	10.6	89.4								
29-Nov	0	0.123	1.095	1.218	10.1	89.9								
30-Nov	0	0.133	1.088	1.221	10.9	89.1								
SUM	0.5	4.244	33.703	37.947										
AVG		0.141	1.123	1.265	11	89	180	230	246	153	169	326		



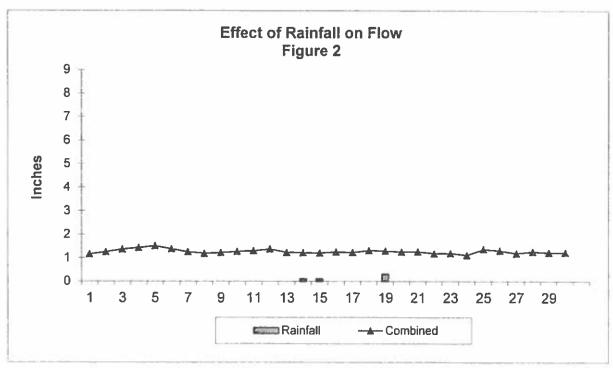
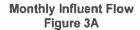
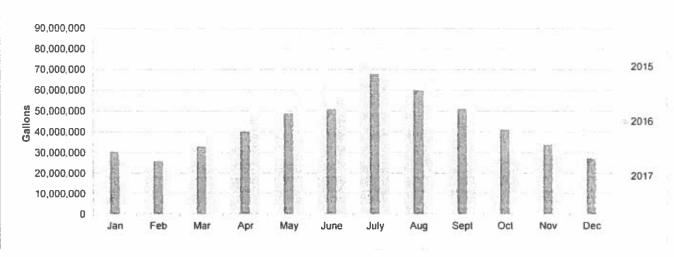
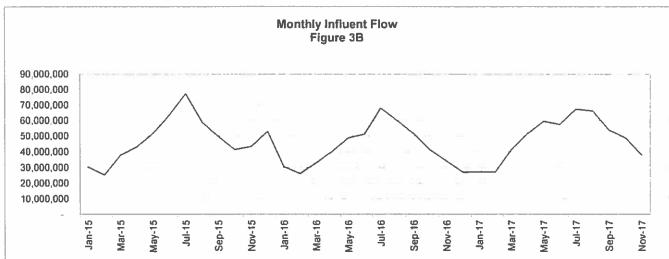


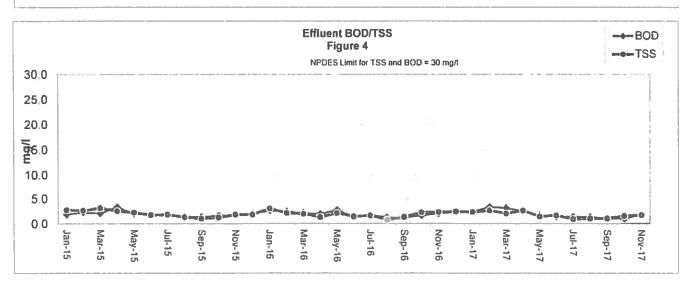
TABLE B JOINT SEWER BOARD Monthly Flows

2015	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	0.9	26,319,000	87%	4,085,000	13%	30,404,000	100%
February	1.4	21,892,000	86%	3,465,000	14%	25,357,000	100%
March	4.5	32,996,000	87%	4,920,000	13%	37,916,000	100%
April	4.0	37,220,000	86%	5,945,000	14%	43,165,000	100%
May	7.2	44,456,000	86%	7,209,000	14%	51,665,000	100%
June	7.1	54,745,000	86%	8,769,000	14%	63,514,000	100%
July	9.7	66,474,000	86%	10,871,000	14%	77,345,000	100%
August	3.5	51,695,000	88%	7,327,000	12%	59,022,000	100%
September	3.1	43,144,000	87%	6,531,000	13%	49,675,000	100%
October	1.8	36,230,000	87%	5,216,000	13%	41,446,000	100%
November	10.8	37,047,000	86%	6,247,000	14%	43,294,000	100%
December	11.7	44,392,000	84%	8,603,000	16%	52,995,000	100%
	65.7	496,610,000	87%	79,188,000	13%	575,798,000	100%
2016	D						
<u>2016</u>	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April	5.3	35,053,000	87%	5,231,000	13%	40,284,000	100%
May	7.0	42,126,000	86%	6,704,000	14%	48,830,000	100%
June	1.2	44,599,000	87%	6,545,000	13%	51,144,000	100%
July	8.7	59,190,000	87%	8,793,000	13%	67,983,000	100%
August	7.7	51,798,000	86%	8,171,000	14%	59,969,000	100%
September	6.0	44,634,000	87%	6,655,000	13%	51,289,000	100%
October	0.5	36,156,000	88%	5,029,000	12%	41,185,000	100%
November	1.2	29,750,000	87%	4,357,000	13%	34,107,000	100%
December	8.0	23,139,000	86%	3,914,000	14%	27,053,000	100%
	45.4	467,718,000	87%	71,221,000	13%	538,939,000	100%
2017	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8		87%	6,723,000	13%	51,388,000	100%
May	8.1		87%	7,979,000	13%	59,506,000	100%
June	2.9		88%	6,618,000	12%	57,544,000	100%
July	5.2		88%	8,092,000	12%	67,439,000	100%
August	12.4		87%	8,409,000	13%	66,145,000	100%
September	1.5		87%	6,866,000	13%	53,962,000	100%
October	7.4	· · ·	87%	6,332,000	13%	48,821,000	100%
November	0.5		90%	4,244,000	10%	42,191,000	100%
December		- 1,2 11,000		1,217,000	1070	74,171,000	100/0
	5/10	475 A75 AAA	000/	75 650 000	100:		
:	54.8	475,072,000	88%	67,828,000	13%	542,900,000	100%

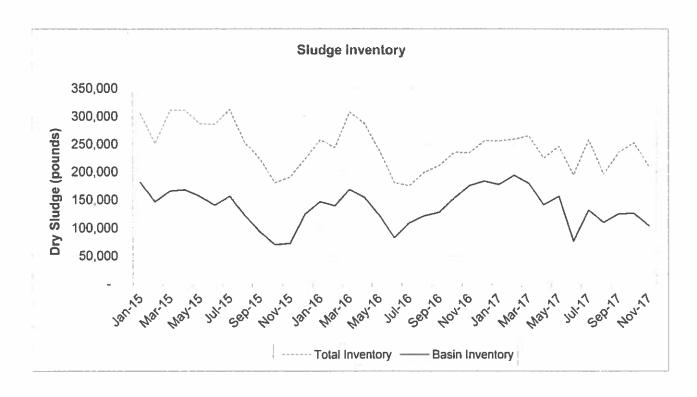


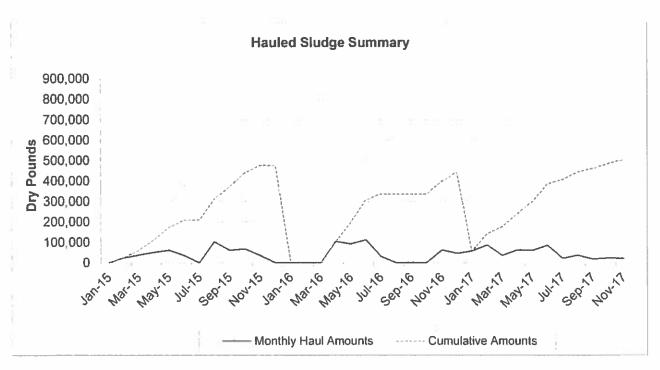






Accepted September	Loads Gallons	1	21 52 500		14		000'59 97	3/ 92,500	42 104 000	44 110,000	32 80,000	22 55,000	19 47,500	21 52.500	22 55,000		44 110,000	8 15,000	40 400 000	30 26,000	3000	200,111,000	43 96,000	42 94,500	35 75,500	11 20,000	26 54,500	15 37,500	5 12,500	41 102 500	R 20,000	45 116,000	33 13,600	33 62,300	43 107,500	41 103,500	48 122,000	10 23,500	7 17,500
Total Dry	ţor	_	250,516	310 505	140.303	200.000	200,049	264 / 30	312,2B2	252,693	223,925	180,952	191,237	223,412	257,551	244.260	307.571	286 515	238 766	181 494	175.010	100,010	707,66	211,825	235,045	234,497	256,348	255,986	258,991	265,019	224 939	246 426	194.610	258.426	024,002	20,173	234,892	253, 182	209,832
MLSS	% Solids Slu	1	0 00344	0.00465			_			0.00429	0.00423		4	0.0032	0 00369	0.00347	0.0045	-	_		_	0.00213	0.000.0	0.00275	0.002b/	0.00377	0 0047	0.00508	0.00409	0.0054	0.00463	0.00295	0 00377	0.00418	20000	0.00203	60000	0.00415	0.00348
LSS Inventor	# Dry	123 385	104 150	144 890	142 532	170 204	144 837	100,44	100,137	130,033	130,400	18,011	118,603	99,000	111,184	105,211	139,249	132,600	116,343	99,155	67 D41	78 24D	0.00	04.223	276,10	59,202	72,955	78,853	65,271	85,420	84,367	90,198	118.153	126 886	DB 450	400.00	103,554	127,025	106,250
Blanket and MLSS Inventory	Gallons	3,671,048	3 635,524	3,740,142	3 723 357	3 835 870	3 783 570	2000 700	2,090,714	1,040,000	2010,032	208,010,0	3,714,476	3,709,547	3,617,762	3,635,524	3,714,476	3,732,238	3,750,000	3,709,547	3 678 952	3 67B 052	2 678 063	3,070,032 2,670,063	208,010,0	882,904	1,861,190	1,861,190	1,913,499	1,896,714	2,184,858	3,666,119	3,762,833	3 657 238	3,670,071	3 670 074	200000	3,6/0,0/1	3,666,119
ventory	ALSS AB #2	4,160	3,290	4,250	4 000	4 110	4 550	000'	4,000	0.4.40		2,920	4,430	1,940	3,610	3,730	4,320	3,180	3,670	3,840	2.630	2 2 2 0	2,600	7,690	2 6	3,770	4 700	2,080	4,090	5,400	4,630	2,480	3,000	3.650	2 740	300	1,00	3,780	4,060
MLSS Inventory	Clarf #3 MLSS AB #1 MLSS AB #2	3,900	3,580	5,040	5,180	4 030	4.630	6.470	2,470	4 780	3 3 40	5	3,440	4.400	3,760	3,210	4,670	5,540	3,770	2,570	1.740	2.880	7 ROD	1 740	PE	•	•			٠	٠	3,420	4,530	4,670	2.910	3 RAO	0,000	4,320,4	2.890
	Clarif #3 R	00	0.0	2.0	10	40	3.0) 49 C	, ,	-	2 0	3 4	0.1	0.0	0.0	1.0	10	1.0	1.5	1,0	1.0	10	9 0	1	0 0	0 0	0.0	2.0	0.0	ές EG	0	1.5	0.5	0	-		2 6	ņ
綗	Clarf #2 (2.0	1.0	2.0	2.0	2.0	10	2.0	9 -	-		9 6			0	0		2.5	5.0	0,1	0	1.0	10	0	2	2 6	2 6	2 0	0.0	0.0	10.0	φ. Ω	2.5	1.0	0.5	0	-) k	0.
Blanke	1	2.0	1,0	1,0	2 5	1.5	2.0	10	9 6	2 -		2	9 6	2.0	a :	1.0	2.0	2.5	1.0	÷	1.0	1.0	10	0.1		9 9	9 9	2 4	e e	3.0	8.0	0,4	3.0	1.0	1.0	0.5	0.5	9 0	0.1
	# Duy	181,645	145,356	165,704	167,861	155,845	139,961	156 125	122 160	93.525	70 034	NED 67	124 412	214,421	140,307	139,049	169,322	153,914	122,423	62,339	108,577	121,222	127,602	153,122	175 205	187 207	177 123	201,111	183,720	0000	140,573	156,228	76,457	131,540	109,704	125,008	128 15B	103 503	100,000
	Basin Gallons	495,000	450,000	540,000	540,000	517,500	517,500	585 000	472 500	315 000	225,000	225,000	382,500	450,000	450,000	427,500	517,500	472,500	382,500	270,000	382,500	427,500	450,000	540,000	540 000	540,000	540,000	582,500	202,300	000,000	495,000	495,000	247,500	450,000	427,500	427,500	405 000	360,000	200
4		00	0.0	0.0	0.0	0.0	0.0	0.0	00	00	0.0	00	000	9 6	5 6	9	0.0	0.0	0.0	0.0	00	0.0	0.0	0.0	0	200	200	9 6	9 0	9 (0.0	0.0	0.0	0.0	0.0	0.0	Q D	0	Š
Basin Depths	ank #2	ស ស	4.0	6.5	6.0	6.0	3.5	60	40	5	10	2.0	40	9 6	9 6	0 1		2.0	O D	0.0	4.0	ය හ	50	10	40	A (5	9 6	9 0	o u	9 1	0.4	4.0	30	S)	4.5	3.5	1.0	4	9
Basin Depths	I BUX #1	Ω (6.0	0.0		5.5		6.5			4.0	3.0	4.5	e c	9 6						4.	6.0	5.0	6.5	10	2.5	9 0) v	1 1		ភ្ជា មារ	0.7	2.5	4.5	5.0	6.0	8.0	4 5	ř
Studge Special Company of Day	isi cumulanye # Ury		24,069	62,672	113,279	174,563	209,587	209,587	311,943	372,363	440,312	476 046	476.046		•	4		103.652	194,837	306,543	335,951	335,951	335,951	335,951	398 408	443 645	58 748	147.797	178 205	000,000	240,199	583 / 22	385,479	407,110	444,140	461,451	484.502	505 794	
tudge Colide Anni	4 462	4 t	N. C.	%/.5	3.7%	3.6%	3.2%	3.2%	3.1%	36%	3.7%	3.9%	3,6%	7 0%	200	R a	£ 30 0	R i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.7%	3.4%	34%	3.4%	3.4%	3.9%	7.1%	3.9%	41%	3.4%	707 6	2000	200	£ :	% G P	3,1%	3.5%	3.7%	3.4%	:
# Doz % con		00077	24,003	50,003	20,00	61,284	35,024	0	102,356	60,420	67,949	35,734	0	c		0 0	0 000	709'601	91,183	90,711	29,408	0	0	0	62,457	45,237	56.748	86 649	34 808	84004	60,434	000,00	42,724	21,631	37,030	17,311	23,051	21.292	
Gallone		74000	200 304	000,021	152,800	203,500	129,500	•	395,900	203,500	218,300	111,000	,	•	•		240 200	310,200	264,900	000,300	103,501		×		192,400	133,200	173,000	251,600	122 100	218 300	189 700	200,100	34,900	74,000	144,300	59,200	74,000	74.000	
Loads		9 5	2 %	ξ;	44	S S	100 I	0	107	55	50	8	O	Ċ	C	0 <	2 1	1 0	: 8	n e	07	0	0	Ф	52	36	47	68	33	E C	b v	5 1	n 8	2 6	65	9	20	20	
	Jan. 15	Esh. 15	1 months	01.100	701	May-15	Jun-15	50-15	Aug-15	Sep-15	Oct 15	Nov-15	Dec-15	Jan-15	Feb-16	Mar.16	Apr. 16	01-1dc	10.0y 10.0	01-1-2	or-inc	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Anc.17	May 17	hip 47	11-11	70-107	Aug-1/	Sep-17	04-17	Nov-17	





ZI-AON 71-VON Sep-17 ZI-des ZIHIND ՀՀ-յոր TI-YEM May-17 T1-16M TI-UBC ar-vol/ 91-AON Sep-16 Sep-16 Kilowatts Used **Electric Cost** 91-100 91-կոր 81-ysM May-16 Mar-16 **81-16M** ar-nat GI-VON SI-AON Sep-15 Sep-15 21-106 May-15 May-15 SI-JBM Mar-15 21-nst 140,000 120,000 000'001 80,000 160,000 60,000 20,000 40,000 12000 10000 9000 6000 4000 2000 65,860 64,300 87,050 93,810 93,810 112,040 114,770 90,520 61,740 65,290 61,740 69,020 93,310 90,640 1119,020 94,280 81,500 68,360 57,810 47,480 45,240 69,210 75,480 93,494 106,070 104,700 98,220 98,220 98,220 68,100 Electric Cost Kilowatts Used Jan-15

Reb-15

May-15

Jul-15

Jul-15

Jul-15

Jul-16

Jul-16

Apr-16

May-16

Jul-16

Jul-16

Jul-16

Jul-16

Jul-17

Aug-17

Aug-17

Aug-17

Sep-17

Oct-17



MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

	1	NAME OF	FACILITY					LOCATIO	ON ADDRES	S & CITY			COUNTY	/REGION
	Lake of th	e Ozarks	Regional	WWTP #1				#3	Anderson R	oad			Miller	SWRO
MONTH	YEAR	•	PERMIT	NUMBER	ł	OUTFALL	NUMBER		1	YPE TRE	ATMENT P	ACILITY		
Nov-			MO-0	103241		#0	01	Oxi	dation Ditch	/UV/Slud	ge Holding	-sludge i		
	11/	IFLUENT				ı		EFFL	.UENT Ammonia		E. coli		% Re	moval
DATE	pH _UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	DO mg/L	COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.4			18	1.367	7.9				7.2		13.9		
2	7.3			18.5	1,437	7.9			0,02	6.6		15.4		
3	7.4	305	472	17.9	1.495	7.9	1.8	2.3		5.9		15.4	99.4	99.5
4	7.4			17:8	1,585	7.9				5.7		16.5		
5	7.4			16.9	1,623	7,9				5.9		15.1		
6	7.5			17.7	1.498	8.1				5.7		16.0		
7	7.3			17.9	1.490	7,9				5.4		15.6		
8	7,2			17.8	1.483	7.9				5.7		14.8		
9	7.4			16.2	1.270	8.0			0.04	6.7		14.1	-	
10	7:5	265	424	15.1	1,506	8.0	1.7	1.6		6.7		12.7	99.4	99.6
11	7.3			16.6	1.580	8.0				7.0		13.0		
12	7.6			16.7	1.582	7.9				6.2		13.9		
13	7.5			16.4	1,414	8.1				6.3		13.9		
14	7.5			17	1,365	8.0				6,1		14.4		
15	7.4			18,1	1,351	7.8				6.4		15.3		
16	7.6			16	1,458	8.0			0.07	5.9		14,2		
17	7.5	230	248	17	1.472	8.0	1.6	1.6		5.4		14,6	99.3	99.4
18	7.4			17.9	1.465	7.9			0.	5.9		16,1		
19	7.5			15.5	1,537	7.9				6,0		13.4		
20	7.6			16.2	1.503	8.0				6.2		12.9		
21	7.5			16.3	1.429	8.0			0.05	6.3		13.6		
22	7.5	183	160	14.7	1.428	8.0	1.7	1.3		6.2		12.3	99.1	99.2
23	7.5			14,3	1.417	8.0				6.4		13.2		
24	7:5			13.9	1.335	8.0				6.4		13.9		
25	7,6			15.2	1.523	8.0				6.1		12.8		
26	7.7			14.6	1,532	8 1				7.0		12.4		
27	7,5			15.2	1.366	7.9				6,9		13.3		
28	7.4			16.3	1.409	7.8				6.5		13.4		
29	7.4			15.9	1,262	7.9				6.8		13.7		
30	7,4			16.1	1.359	7.9			0.10	6.8		14.0		
Total					43.541									
Avg		246	326	16	1.451		1;7	1:7	0.06	6.3	0.0	14.1	99.3	99.4
Min	7.2	183	160	14	1.262	7.8	1.6	1,3	0.02	5.4	0.0	12.3	99.1	99.2
Max	7.7	305	472	19	1.623	8.1	1.8	2.3	0.10	7.2	0.0	16.5	99.4	99.6

	MON.	THLY MONIT	ORING			C	UARTERLY	MONITORIN	G	
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1		SM1	TR. Cadmium	TR. Copper
1	,,,,g/L	P6/ C	mg/L	mg/E	mg/t	mg/ c	mg/L	mg/c	ug/L	hR/r
2		P-7-0-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				-				
3										
4										
5										
6										
7	< 5.0	< 1.0	324	340						
8										
9										
10										
11										
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26										
27										
28										
29										
30										
	<u> </u>									
otal	< 5.0	< 1.0	324	340						
vg	< 5.0	< 1.0	324	340						
lin	< 5.0	< 1.0	324	340						
lax	< 5.0	< 1.0	324	340						

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

SLUDGE The part SLUDGE Substitution Subst	ditions
DATE WEIGHT mg/l mg/l "30 min ml Temp or C mg/l mg/l 30 min mg/l Temp or C inches 1 3.3 3.3 3.70 14.0 4.9 3.460 470 13.8 36 0 2 3.6 3.550 320 15.6 3.6 4.180 530 15.4 51 0 3 1.4 3.860 470 15.7 4.0 3.110 340 15.5 50 0 4 1.9 3.260 440 16.7 3.4 3.320 340 16.7 61 0 5 2.1 3.450 440 16.7 3.4 3.320 360 15.6 60 0 6 1.4 4.390 460 15.8 2.0 3.180 380 15.9 44 0 7 1.1 3.540 450 15.3 2.9 3.730 450 15.0 43 0	
mg/l mg/l mg/l ml	Time
1 33 3,210 370 14 0 4.9 3,460 470 13.8 36 0 2 3.5 3,150 320 15.6 3.6 4,180 530 15.4 51 0 3 1.4 3,860 470 15.7 4.0 3,110 340 15.5 50 0 4 1.9 3,260 440 16.7 3.4 3,320 340 16.7 61 0 5 2.1 3,450 440 15.7 3.8 3,260 360 15.6 60 0 6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0	
2 3.5 3,150 320 15.6 3.6 4,180 530 15.4 51 0 3 1.4 3,860 470 15.7 4.0 3,110 340 15.5 50 0 4 1.9 3,260 440 16.7 3.4 3,320 340 16.7 61 0 5 2.1 3,450 440 15.7 3.8 3,260 360 15.6 60 0 6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0	7:30
3 14 3,860 470 15.7 4.0 3,110 340 15.5 50 0 4 19 3,260 440 16.7 3.4 3,320 340 16.7 61 0 5 2.1 3,450 440 15.7 3.8 3,260 360 15.6 60 0 6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 36 3,600 460 13.1 4.0 3,320 360 13.2 35 0	7:30
4 19 3,260 440 16.7 3.4 3,320 340 16.7 61 0 5 2.1 3,450 440 15.7 3.8 3,260 360 15.6 60 0 6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 3.6 3,600 460 13.1 4.0 3,320 360 13.0 32 0 11 3.7 4,120 550 13.2 5.2 3,450 400 13.2 35 0	7 30
5 2.1 3,450 440 15.7 3.8 3,260 360 15.6 60 0 6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 3.6 3,600 460 13.1 4.0 3,320 360 13.0 32 0 11 3.7 4,120 550 13.2 5.2 3,450 400 13.2 35 0 12 2.5 3,990 490 14.7 3.5 3,920 480 14.8 52 0	7:30
6 1.4 4,390 460 15.8 2.0 3,180 380 15.9 44 0 7 1.1 3,540 450 15.3 2.9 3,730 450 15.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 3.6 3,600 460 13.1 4.0 3,320 360 13.0 32 0 11 3.7 4,120 550 13.2 5.2 3,450 400 13.2 35 0 12 2.5 3,990 490 14.7 3.5 3,920 480 14.8 52 0 13 7,344 2.2 4,100 500 14.2 2.9 3,840 450 14.3 47 0 </td <td>7:30</td>	7:30
7 1.1 3,540 450 15.3 2.9 3,730 450 16.0 43 0 8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 3.6 3,600 460 13.1 4.0 3,320 360 13.0 32 0 11 3.7 4,120 550 13.2 5.2 3,450 400 13.2 35 0 12 2.5 3,990 490 14.7 3.5 3,920 480 14.8 52 0 13 7,344 2.2 4,100 500 14.2 2.9 3,840 450 14.3 47 0 14 2.4 4,000 410 14.5 2.4 4,650 580 14.5 48 0.	7.30
8 3,333 1.8 3,880 510 14.7 3.7 3,200 360 14.5 35 0 9 3.5 3,530 430 13.7 4.6 3,820 420 13.8 36 0 10 3.6 3,600 460 13.1 4.0 3,320 360 13.0 32 0 11 3.7 4,120 550 13.2 5.2 3,450 400 13.2 35 0 12 2.5 3,990 490 14.7 3.5 3,920 480 14.8 52 0 13 7,344 2.2 4,100 500 14.2 2.9 3,840 450 14.3 47 0 14 2.4 4,000 410 14.5 2.4 4,650 580 14.5 48 0.1 15 2.9 4,190 480 15.3 2.6 3,620 360 15.3 55 <td< td=""><td>7.30</td></td<>	7.30
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John Hornback	VALL INTILLIBILIV		12/0/2011
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0 11 1 1 11	May Medical	(573)365-0455	12/8/2017
 Gary Hutchcraft 	/ will a live - 1/1	(373)303-0433	12/0/2017

*Required Daily (Monday -/Friday)

**Required 1/week

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

PERMITTEE NAME/ADDRESS

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

M00103241 001 A DISCHARGE NUMBER MONTORING PERIOD YEAR MO DAY 2017 11 01 YEAR MO DAY TO 2017 11 10

Dep. of Natural Resources (REGIONAL OFFICE) (REGIONAL OFFICE)

Southwest Regional Office
2040 W Woodland

Springfield. MO 65807-5912
4178914300
4178914399 (fax)

BOH READPRANTASIONNESS PARACHERS INTORECUSING TIPS THE FORM

Parameter		31/	\SS	Unit	(ONCENTRA	TION	Unit	OF ANALYSIS	SAMPLE TYPE	1.AB CODE
BOD, 5-day, 20 deg. C (00310.)	REPORTO	****	4=++		*****	1.8	1,7		Weekly	24 Hour Composite	
Stage Type End of Pipe	REQRMNT	****	****		*****	Weekly Average 45	Monthly Average 30	mg/L	Weekly	24 Hour Composite	
BOD A-day percent removal	REPORTO	****	****			*****	99.3		Monthly	Calculated	
Stage Type End of Pipe	REQRMNT	44144	*****			****	Monthly Average Minimum 85	%	Monthly	Calculated	
Flow in conduit or this freatment plant (50050)	REPORTD	1.623	1,451		*****	****	****		Daily	Total Measured	
Stage Type End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	Mgal/d	*****		*****		Darly	Total Measured	
vitrogen, ammonia total (as N)	REPORTO	****	10445		0.10	*****	0.06		Weekly	Grab	
(00610.) Stage Type End of Pipe	REQRMNT	*4166	****		Daily Maximum: 11.5	****	Monthly Average 2.7	mg/L	Weekly	Grab	
Oil and grease (soxhlet extr.) tot	REPORTD	****	****	1	<5.0	****	<5.0		Monthly	Grab	
HHISSO) Stage Type - End of Pipe	REQRMNT	****	64040		Daily Maximum 15	44+4+	Monthly Average	ing/L	Monthly	Grab	
pH (004007)	REPORTD	****	*****		7.8	****	8,1		Weekly	Grab	
Stage Type End of Pipe	REQRMNT	****	****		Musimum 6.5	*****	Maximum 90	SU	Weekly	Grab	
Scienium (Se), total recoverable	REPORTD	****	40404		<1.0	01001	<1.0		Monthly	Grab	
Hillight) Stage Type End of Pipe	REQRMNT	4444	4444		Daily Maximum 9.1	****	Monthly Average 4.0	ug/L	Monthly	Grab	

GANK OF PLANT REQUEST OF CONTROL
and angene sum call for Energing tradelines.											
OPERATOR IN RESPONSIBLE CHARGE											
Gary Hutchcraft 7305											
TYPED OR PI	INTED NAME	CERTIFICATE NUMBER									
PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT	TELEPHONE	573-365-0455								
Gary F Hutcheraft	Gary F Hutchcraft		2017-12-08 09 24 39								
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)

PERMITTEE NAME/ADDRESS

NAME

ADDRESS.

Lake of the Ozarks Regional WWTP 1

#3 Anderson Road LAKE OZARK . MO 65049

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Dep. of Natural Resources (REGIONAL OFFICE) Southwest Regional Office 2040 W Woodland 5pringfield. MO 65807-5912 4178914300 4178914399 (fax)

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l'arameter		MA	SS	Unit		CONCEN	TRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
suspended Solids, percent removal	REPORTO	41414	*****		•••••	****	99.4		Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	****	*****			10100	Monthly Average Minimum 85	%	Monthly	Calculated	
	REPORTO	****	****		• • • • • • • • • • • • • • • • • • • •	2.3	1.7	500 J	Weekly	24 Hour Composite	
Stage Type End of Pape	REQRMNT	****	41010		••••	Weekly Average : 45	Monthly Average 30	mg/L	Weekly	24 Hour Composite	

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	OPERATOR IN F	IESPONSIBLE CHARGE	
Gan Hute	cheraft		7305
TYPED OR PRI	NTED NAME		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFIC	ER OR AUTHORIZED AGENT	TELEPHONE	573-365-0455
Gan F Hutcheraft	Gary F Hutchcraft		2017-12-08-09:24:39
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)

Den. of Natural Resources (REGIONAL OFFICE) Southwest Regional Office 2040 W Woodland Springfield, 84O 65807-9012

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NAME ADDRESS

Lake of the Ozarka Regional WWTP I #3 Anderson Road LAKE OZARE MO 65049

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		*****	*****		349	Innerel	340		Monthly	Grab	
Hardness, total (ar CaCO3) (0H900)	REPORTD	*****			340		340		MIDRITIA	(2120	l í
100	REQRMNT	+1000	****	į .	Daily Maximum		Monthly Average	mg/L	Monthly	Grab	
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FORTH THE FORT STATE OF CONDUCTOR CO OPERATOR IN RESPONSIBLE CHARGE Gay, Hutcheraft
TYPED OR PRINTED NAME
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT CERTIFICATE NUMBER 573-565-0455 TELEPHONE 2017-12-08 09 24 39 Gan F Hutchcraft
TYPED OR PRINTED NAME Gary F Hutchcraft SIGNATURE

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Use Editoring abbreviations R-mat, System, Chorespar, Collean PC-purch dusch

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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.

REPORT OF OPERATIONS

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

Month of December 2017

Submitted by Alliance Water Resources, Inc. for the

January 2018

Joint Sewer Board Meeting

Alliance Water Resources, Inc.

206 S. Keene St. Columbia, MO 65201

(573)874-8080

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		_рН_	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average Peak Day · Percent Removal	3.5	3.1 5.9 98.4	8.0	0 0 N/A	0.06 0.09 N/A	< 5.0 < 5.0 N/A	< 1.0 < 1.0 N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average Weekly Average	30 45	30 45	6-9	N/A N/A	2.7	10	4.0
Daily Max	10	10		1477	11.5	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.105 MGD or 37% of Permitted flow with Lake Ozark contributing 11% of the total flow and Osage Beach contributing 89%. 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 59844 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

505,794 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 405,000 gallons with a level of 6.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 7 loads of septage during the month totaling 17,500 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)

SAFETY

We conducted our monthly routine Safety Meeting on Hazardous Communication on the 12th of December.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 4th of January.
- We took and shipped the first round of three permit required expanded effluent testing for our next permit renewal on the 11th of December.

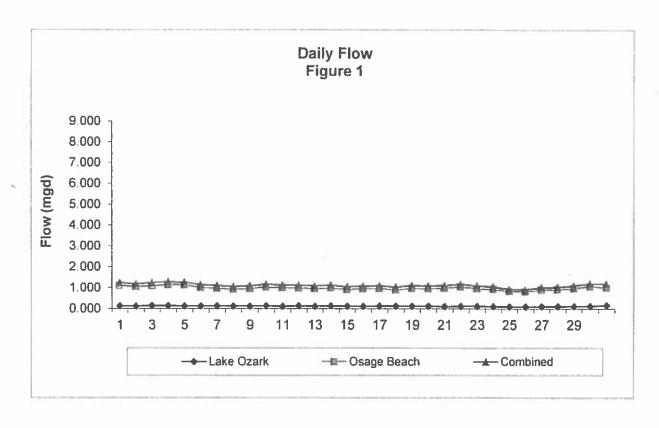
MISCELLANEOUS AND RECOMMENDATIONS

 Scott's Handyman Services finished the pipe gallery/RAS basement paint project on the 11th of December. This page left intentionally blank

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 2017

DATE			F	LOW			B	SOD 5 M	G/L		TSS MC	G/L
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% ОВ	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Dec	0	0.133	1.100	1.233	10.8	89.2	200	248	188	138	208	186
2-Dec	0	0.121	1.047	1.168	10.4	89.6				1,55		130
3-Dec	0	0.143	1.089	1.232	11.6	88.4						
4-Dec	0	0.136	1.137	1.273	10.7	89.3						
5-Dec	0.25	0.123	1.124	1.247	9.9	90.1						
6-Dec	0	0.122	1.007	1.129	10.8	89.2						
7-Dec	0	0.132	0.970	1.102	12.0	88.0						
8-Dec	0	0.120	0.928	1.048	11.5	88.5	195	215	210	160	182	- 188
9-Dec	0	0.122	0.964	1.086	11.2	88.8				- 133	1.02	
10-Dec	0	0.136	1.025	1.161	11.7	88.3						
11-Dec	0	0.114	0.999	1.113	10.3	89.7						
12-Dec	0	0.129	0.988	1.117	11.5	88.5						
13-Dec	0	0.119	0.956	1.075	11.1	88.9						
14-Dec	0	0.127	0.991	1.118	11.4	88.6						
15-Dec	0	0.121	0.922	1.043	11.6	88.4	168	255	223	116	152	214
16-Dec	0	0.117	0.955	1.072	10.9	89.1				-:-	152	217
17-Dec	0	0.127	0.968	1.095	11.6	88.4						
18-Dec	0.1	0.127	0.904	1.031	12.3	87.7						
19-Dec	0	0.123	0.975	1.098	11.2	88.8						
20-Dec	0	0.122	0.961	1.083	11.3	88.7				-		
21-Dec	0	0.111	0.987	1.098	10.1	89.9	180	203	198	92	156	188
22-Dec	0	0.122	1.040	1.162	10.5	89.5	- 100			- /-	150	100
23-Dec	0.5	0.125	0.963	1.088	11.5	88.5						· · · · · ·
24-Dec	Ō	0.111	0.932	1.043	10.6	89.4						
25-Dec	Ō	0.098	0.828	0.926	10.6	89.4						
26-Dec	0	0.093	0.819	0.912	10.2	89.8						
27-Dec	ō	0.107	0.911	1.018	10.5	89.5						
28-Dec	0	0.109	0.918	1.027	10.6	89.4	158	275	228	116	194	202
29-Dec	0	0.119	0.976	1.095	10.9	89.1				- 110		202
30-Dec	0	0.132	1.063	1.195	11.0	89.0						
31-Dec	0	0.167	1.012	1.179	14.2	85.8						
SUM	0.9	3.808	30.459	34.267								
								-				
AVG		0.123	0.983	1.105	11	89	180	239	209	124	178	196
NOTE: BOL	D PRINT	INDICATE	S WEEKEN	D DAYS								



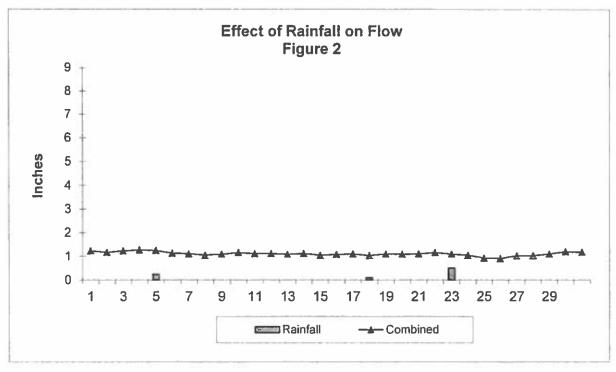
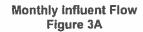
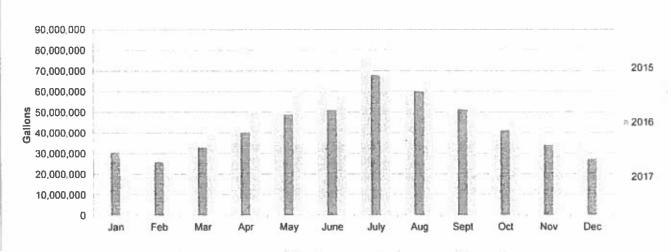


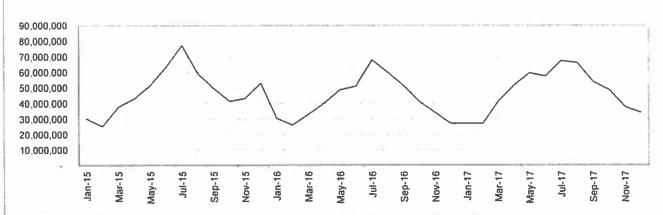
TABLE B
JOINT SEWER BOARD
Monthly Flows

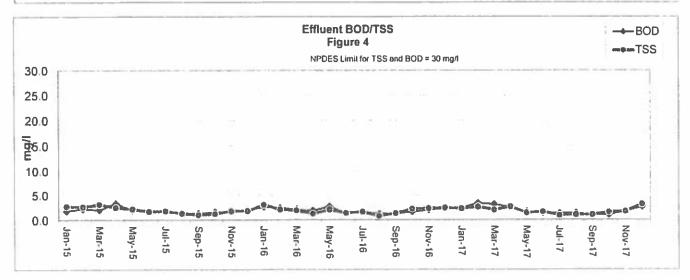
2015	DAINEALI	OCACE BEAGU		
January	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
February	0.9	26,319,000 87%	, = - , · · · · · · ·	30,404,000 100%
March	1.4	21,892,000 86%	1 - 1	25,357,000 100%
	4.5	32,996,000 87%	, .,	37,916,000 100%
April	4.0	37,220,000 86%	-,,	43,165,000 100%
May	7.2	44,456,000 86%	7,209,000 14%	51,665,000 100%
June	7.1	54,745,000 86%	8,769,000 14%	63,514,000 100%
July	9.7	66,474,000 86%	10,871,000 14%	77,345,000 100%
August	3.5	51,695,000 88%	7,327,000 12%	59,022,000 100%
September	3.1	43,144,000 87%	6,531,000 13%	49,675,000 100%
October	1.8	36,230,000 87%	5,216,000 13%	41,446,000 100%
November	10.8	37,047,000 86%	6,247,000 14%	43,294,000 100%
December	11.7	44,392,000 84%	8,603,000 16%	52,995,000 100%
			-,,,	52,775,000 10076
	65.7	496,610,000 87%	79,188,000 13%	575,798,000 100%
2016	RAINFALL	OSAGE BEACH	LAVEOZADU	
January	0.8	26,604,000 87%	LAKE OZARK	TOTAL %
February	0.8	22,444,000 86%	4,001,000 13%	30,605,000 100%
March	3.1		3,661,000 14%	26,105,000 100%
April	5.3	•	4,251,000 13%	33,036,000 100%
May	7.0	35,053,000 87%	5,231,000 13%	40,284,000 100%
June		42,126,000 86%	6,704,000 14%	48,830,000 100%
July	1.2	44,599,000 87%	6,545,000 13%	51,144,000 100%
-	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 November	0.5	36,156,000 88%	5,029,000 12%	41,185,000 100%
	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%	740 040 040
		107,710,000 8774	71,221,000 13%	538,939,000 100%
<u>2017</u>	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	2.5	23,440,000 86%	3,909,000 14%	27,349,000 100%
February	0.7	23,345,000 86%	3,812,000 14%	27,157,000 100%
March	3.8	36,554,000 88%	4,844,000 12%	
April	9.8	44,665,000 87%	6,723,000 12%	
May	8.1	51,527,000 87%	7,979,000 13%	51,388,000 100%
June	2.9	50,926,000 88%	6,618,000 12%	59,506,000 100%
July	5.2	59,347,000 88%		57,544,000 100%
August	12.4	57,736,000 87%		67,439,000 100%
September	1.5	47,096,000 87%	8,409,000 13% 6,866,000 13%	66,145,000 100%
October	7.4	42,489,000 87%	, ,	53,962,000 100%
November	0.5	37,947,000 90%	6,332,000 13%	48,821,000 100%
December	0.9	30,459,000 89%	4,244,000 10%	42,191,000 100%
	0.5	30,732,000 0370	3,808,000 11%	34,267,000 100%
	55.6	505,531,000 88%	71,636,000 12%	577,167,000 100%



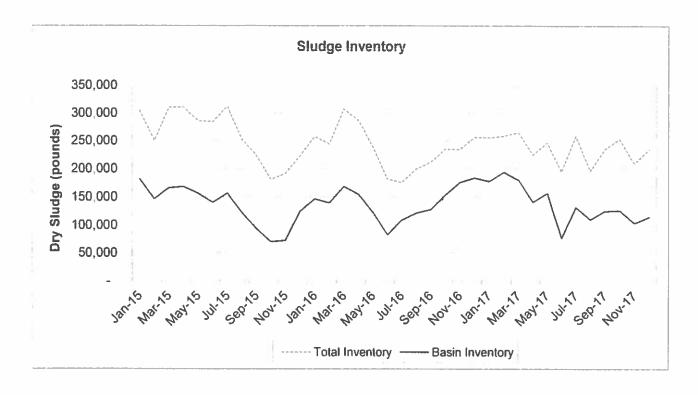


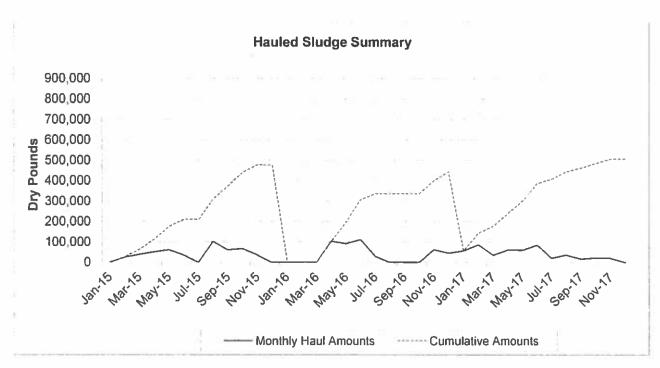






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	Total Day	% Solids Studge Inventory	305,030	250,516	310,595	310,393	286,049	284,798	312,282	252 693	223 925	180.052	191 217	227 412	257 554	244.280	307 571	286.515	238 766	181,494	175,618	199,482	211,825	235,045	234,497	256,348	255,988	258,991	265,019	224,939	246,426	194 610	258 428	196,173	234 892	253,182	209,832	234,792
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	Blanket and MLSS Inventory		3,671,048	3,635,524	3,740,142	3,723,357	3,835,879	3,783,570	3,596,714	3,648,357	3,678,952	3,678,952	3,714,476	3,709,547	3,617,762	3,635,524	3,714,476	3,732,238	3,750,000	3,709,547	3,678,952	3,678,952	3,678,952	3,678,952	1,002,304	1,001,190	1,001,130	1 a 1 4 2 5	1,030,714	2, 164, 858	3,666,119	3,762,833	3,657,238	3,670,071	3,670,071	3,670,071	3.666.119	3,567,833
	ventory	MLSS AB #2	4,160	3,290	007.4	4,000	4,110	4,550	4,560	4,400	3,570	3,920	4,430	1,940	3,610	3,730	4,320	3,180	3,670	3.840	2.630	2.220	2,690	2,900	077.4	2,700	000	2 400	004	050,0	2,480	3,000	3,650	2,740	3,300	3,780	4,060	4, 120
	MLSS Inventory	Clarf #3 MLSS AB #1 MLSS AB #2	3,900	3,580	0,040	001.00	4,030	4,630	5,470	4,170	4,480	3,310	3,440	4,460	3,760	3,210	4,670	5.540	3,770	2,570	1,740	2.080	4.740	0=/-			,			400	3,420	4,530	4,670	2,910	3,880	4,520	2,890	2,000
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		Dasm Callons	450,000	540,000	540,000	517,500	517,500	585,000	472 500	315 000	225,000	225,000	182 500	450,000	430,000	517 500	472 500	182 500	270 000	382 500	427,500	450,000	540,000	540,000	540,000	540,000	562,500	630,000	495,000	495,000	247.500	450 000	427 500	427.500	405 000	360,000	405,000	
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	Tack #1 Tank #7 And	5.5	90	5.5	6.0	5.5		6.5	6.5	5.5	4.0	30				80	i kr			4.55	0.9	2.0		89			in in	7.5	6 5	7,0	2.5	4	0:0	6.0	8.0	4.5	6.0	
Hauled Studge	Solids Annual Comulative # Dov		24.069	62,672	113,279	174,563	209,587	209,587	311,943	372,363	440,312	476 046	476,045				103 652	194 837	306,543	335,951	335,851	335,951	335,951	398,408	443,645	56,748	180,081	1/8,205	240,199	299,755	385,479	407,110	444,140	461,451	484,502	505,794	505,794	
	Solids An	44%	3.9%	3.7%	3.7%	3.6%	32%	32%	3 1%	3.6%	3.7%	3.9%	3.9%	3.9%	3.9%	3.9%	3.9%	3.8%	3.7%	3.4%	3.4%	3.4%	3.4%	£6.5	Race	\$ 7 V	P 20 C	Ra	# C C C C	200	3.7%	3.5%	3.1%	3.5%	37%	3.4%	3.4%	
	# Dry	0	24 069	38,603	20,507	61,284	35,024	0	102,356	60,420	67,949	35,734	0	0	0	0	103,652	91,185	111,706	29,408	0	0	0 10	02,43 <i>f</i>	55,740	30,740 A6,649	24.000	84.000	EO 550	000 20	85,724	21,631	37,030	17,311	23,051	21,292	0	
ı			74,000	125,800	00970	203,500	129,500	, ;	395,900	203,500	8,300	111,000		è		i i	318,200	284,900	366,300	103,600	+		200 400	33,200	173,000	251,600	122 100	21R 300	188 200	20,700	21,500	/4,000	144,300	59,200	74,000	74,000		
	Gallons	'	74	125	0	3 5	7	i	5	20	2	F					m			_			*		-	. 4	1 4		1 4	- 6	Ñ,	-	4	3	9	7.		
	Loads Gallons		20 74,		_ '	200	71				59 21		0	0	0			12			D (> c		36		- '				•		07	•			20 74	0	





TI-VON TI-VOM ZI-das Zr-daS ZI+Inc Z1-I00 Tr-yeM TI-YEM VI-16M Mar-17 71-neL 71-UBC 91-AON 91-AON 81-qa2 Kilowatts Used 91-q92 91-100 91-լոր ar-yeM ar-yaM **81-16M** 91-JBM 91-net ar-nat GI-AON ST-VON SI-das SI-Inc գլ-լոր S1-YBM &I-YBM S1-JBM 2f-15M ST-net ðt-nal 60,000 160,000 120,000 100,000 20,000 140,000 80,000 4000 9009 12000 10000 8000 2000 65,860 64,300 80,130 87,050 93,490 112,040 112,040 114,770 90,520 67,300 67,300 67,300 67,300 67,300 90,640 111,260 94,280 81,500 68,360 69,220 94,280 94,280 94,280 94,280 94,280 94,280 94,280 94,280 94,280 94,280 94,280 96,570 96,570 97,400 98,220 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98,200 98 Jan-15

Rap-15

Apr-15

Aug-15

Jul-15

Sep-15

Oct-15

Jun-16

Jun-16

Jun-16

Jun-16

Jun-16

Jun-17

Aug-16

Oct-16

Jun-17

Aug-17

Electric Cost

Electric Cost Kilowatts Used



MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

13-50-	N	AME OF F	ACILITY				COUNTY/REGION									
- 1	Lake of the Ozarks Regional WWTP #1							#3 Anderson Road								
MONTH	YEAR		PERMIT	NUMBER		OUTFALL NUMBER TYPE TREATMENT FACILITY										
Dec-	Dec-17 MO-0103241 INFLUENT			#0	01		lation Ditch	/UV/Slud	ge Holding	-sludge i	is land applied % Removal					
									Ammonia		E. coli		<u> </u>			
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	DO mg/L	#/100 ML	TEMP °C	BOD mg/L	TSS mg/L		
1	7.3	188	186	16.0	1.448	7.8	1.8	1,3		6.8		13,2	99.0	99.3		
2	7,4			15,9	1,289	7.8				6.9		13.3				
3	7.4			15.7	1,400	7.9				6.7		13.2				
4	7.4			16.3	1.403	7,8				6.2		14.7				
5	7.4			15.6	1.429	7,8				6.4		13.5				
6	7.4			15.4	1.366	7.9				6.5		12.8				
7	7.5			14.3	1.319	7.7			0.09	6.6		11.5				
8	7.4	210	188	14.0	1.384	7.9	2.2	2.2		7:1		10,9	99.0	98.8		
9	7.4			12.7	1.418	7.9				7.9		9.5				
10	7.5			14.0	1.484	7.9				7.8		9.8				
11	7.6			13.0	1.373	7.9			:	7.4		9,9				
12	7.4			11:9	1,384	7.8				7.8		9,1				
13	7.5			13.6	1.377	7.9				7.5		10.0				
14	7.5			12.9	1.312	7.8			0.09	7.4		9.9		Į		
15	7.2	223	214	13.7	1,373	7,8	2.9	3.0		7.3		10	98.7	98.6		
16	7:3			14.0	1.390	7.8				8.2		9.7				
17	7.3			14.0	1.315	7.8				7.8		10.6				
18	7.6			13.9	1.269	8.0				7.2		11,2				
19	7,5			15.0	1.359	7.7				6.7		12,1				
20	7.5			13.3	1.253	7,8				6.7		11.5				
21	7.4	198	188	14.9	1,357	7.8	2.4	3.2	0.02	7.2		12.5	98.8	98.3		
22	7.4			13.3	1.337	7.8				7.0		11.9				
23	7.5			12.4	1,398	7.8				6.4		10.1				
24	7,3			12.7	1.328	7.6				6.2		9.8				
25	7.4			11.4	1.209	7.9				8.4		8.7				
26	7.5			10.0	1.156	7.9				8.1		6.9				
27	7.5			9,1	1,399	7.8				7.8	<u> </u>	6.2				
28	7.4	228	202	11.2	1.517	7.8	3.5	5.9	0.02	9.2	1	6,6	98.5	97.1		
29	7.5			11.3	1.449	7.8				9.0		6.5				
30	7.5			10.9	1.579	7.7				8.8		6.5				
31	7.2			11.1	1.587	7.7				7.9		5.6				
Total					42.661											
Avg		209	196	13.3	1.376		2.6	3.1	0.06	7.4	0.0	10.2	98.8	98.4		
Min	7.2	188	186	9.1	1.156	7.6	1.8	1.3	0.02	6.2	0.0	5.6	98.5	97.1		
Max	7.6	228	214	16.3	1,587	8.0	3.5	5.9	0.09	9:2	0.0	14.7	99.0	99.3		

	MON.	THLY MONIT	ORING		QUARTERLY MONITORING									
DATE	011.0		SM1	SM2		SM1 SM1 SM1 Phosphorus Phosphorus T. Nitrogen T. Nitrogen TR. Cadmium								
DATE	Oil & Grease mg/L	Selenium µg/L	Hardness mg/L	Hardness mg/L	Phosphorus mg/L	Phosphorus mg/L	T. Nitrogen mg/L	T. Nitrogen mg/L	TR. Cadmium	TR. Copper μg/L				
1						9,-				F6/5				
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Total	< 5.0	< 1.0	347	359										
Avg	< 5.0	< 1.0	347	359										
Min	< 5.0	< 1.0	347	359										
Max	< 5.0	< 1.0	347	359										

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

	SLUDGE	#1 Aeration Basin, O-Ditch, Etc.			#2 Ae		sin, O-Dito	*Weather Conditions				
	DISP.	MIXED LIQUOR			-		LIQUOR	Outside	*5			
	LBS. DRY	* DO	** MLSS	*Settlea		* DO	** MLSS	*Settle:		* Ambient	*RAIN	Time
DATE	WEIGHT		ma#	*30 min ml	Temp °C	mg/l	mg/l	*30 min ml	Temp ° C	Temp	inches	ł
		mg/! 3.2	mg/l 3,980	410	13.3	2.9	3,960	400	13.1	31	0	7:30
1		-	3,800	400	13.5	3.2	3,340	320	13.4	47	0	7:30
2		3.1	3,810	450	13.1	3.6	2,650	290	13.5	41	0	7:30
3		2.1	4,220	430	15.0	1.8	3,460	300	15.0	60	0	7:30
4		1.3	4,220	420	13.2	3.3	3,510	310	13.4	35	0.25	7:30
5				360	12.7	3.2	3,670	350	13.0	35	0	7:30
6		2,6	3,590			3.6	4,230	380	11,1	27	0	7:30
7		4.0	3,320	310	10.6				10.3	16	0	7.30
8		3.2	3,010	330	10.2	4,1	4,520	400		32	0	7:30
9		4.8	4,050	350	9.9	5.2	4,120	350	10.0			7:30
10		5,6	3,940	350	10.4	4.0	4,280	380	10.6	36	0	i
11		4.0	4,090	350	10.5	3.6	4,280	360	10.9	30	0	7:30
12		4.4	4,610	420	9.5	3.6	3,830	320	9.8	28	0	7:30
13		3.4	4,630	400	10.0	4.7	3,910	330	10.5	38	0	7:30
14		3.2	5,000	540	9.8	4.1	3,390	280	10,1	37	0	7:30
15		3.2	4,670	400	10,2	4.5	3,570	290	10.2	34	0	7:30
16		4,3	4,210	340	10.0	5.4	4,390	370	10.1	41	0	7:30
17		4.2	3,510	320	10.9	4:4	4,530	370	11.0	45	0	7:30
18		2.9	4,320	360	12.0	3.1	4,300	360	12.2	47	0.1	7:30
19		2.4	4,800	400	12.0	3.8	3,990	300	11.9	46	0	7:30
20		2.5	3,620	360	11.9	3.5	4,090	340	11.8	45	0	7:30
21		2.3	3,880	400	12.6	2:5	4,150	330	12.6	51	0_	7:30
22		2,1	5,110	420	12.0	3:4	3,890	300	12.2	43	0	7:30
23		2.7	4,030	360	10.8	3.3	4,290	420	10.4	31	0.5	7:30
24		4.0	4,100	370	10.2	4.3	4,100	380	10,3	30	0	7:30
25		5,0	4,600	400	8.7	6.0	3,510	370	8.8	26	0	7:30
26		4.8	4,370	410	7.8	6.3	4,390	400	8.0	24	0	7:30
27		6.6	4,450	400	5.1	5.7	4,480	430	6.6	11	0	7:30
28		6.8	4,390	370	6.6	5.8	4,840	410	6.8	19	0	7:30
29		5.4	4,390	380	7,0	5.3	4,540	400	7.0	22	0	7:30
30		4.1	4,590	410	7.0	5.5	4,400	410	7.4	19	0	7:30
31		1.5	3,680	440	5.6	5,0	4,120	400	6.1	13	0	7:30
COLUMEN							-					

COMMENTS

TESTS PERFORMED BY (PRINT)	71 //SIGNATURE	PHONE #	DATE
John Hornback	Hohn Howbach	(573)365-0455	1/2/2017
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Laus Hutcheral	(573)365-0455	1/2/2017

*Required Daily (Monday - Friday)

**Required 1/week

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

PERMITTEE NAME/ADDRESS

KAME ADDRESS Lake of the Ozarks Regional WWTP 1

#3 Anderson Road LAKE OZARK __ MO_65949

MO0103241 001 A PERMIT NUMBER DESCRIARGE NUMBER MONTIORING PERIOD YEAR MO DAY 2017 12 61 YEAR MO DAY TO 2017 12 16

Dep. of Natural Resources (REGIONAL OFFICE) Southwest Regional Office 2040 W Woodland Springfield, MO 65807-4912 4178914360 4178914399 (fax)

BOAT RESERVED ASSOCIATION INSTRUCTIONS IN LOSS OF THE COMPANY TASK THE STREET

Parameter		514	SS	Unit		ONCENTRA	TION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	CODE
OD 5-day 20 deg C (00310.)	REPORTO	****	****			3.5	2.6	0	Weekly	24 Hour Composite	
tage Type End of Pipe	REQRMNT	*****	****		****	Weekly Average: 45	Monthly Average 30	mg/L	Weekly	24 Hour Composite	
OD 5-day percent removal	REPORTO	****	*****		*****	*****	98,8		Monthly	Calculated	
(1010-) tage Type - End of Pipe	REQRMNT	20402	****		****	****	Monthly Average Minimum = 85	i#	Monthly	Calculated	
low in conduit or thru treatment dant (50050)	REPORTD	1.587	1.376	NA 1//4	*****	41111	****		Daily	Total Measured	
age Type - End of Pipe	REQRMNT	Monitoring Required Mointoning Required		Mgal/d	••••	****	****		Daily	Tetal Measured	
itregen, ammenia total (as N)	REPORTE	****	****		0.09	*****	8.06		Weekly	Grab	
ion (0.) ion Type I and of Pipe	REQRAINT	****	****		Daily Maximum 11.5		Monthly Average 2.7	mg/L	Weekly	Grab	
hi and grease (soxblet extr.) tot	REPORTD	****	*****		<5.0	*****	<5.0		Monthly	Grab	
tine Type End of Pipe	REQRMNT	4004	****		Daily Maximum 13	****	Monthly Average 10	mg/L	Monthly	Grab	
H (00400)	REPORTU	*****	*****		7.6	*****	8.0		Weekly	Grab	
tage Type End of Pipe	ŔĖQRMNT	*****	****	1	Minimum 6.5		Maximum 90	SU	Weckly	Grab	
elemum (Se), total recoverable	REPORTD	****	****		<1.0	*****	<1.0		Monthly	Grab	
ings [] tage Type. End of Pipe	REQRMNT	00000	****		Daily Maximum 9 t	*****	Monthly Average 40	ng/L	Monthly	Gmb	

GENERAL PERMIERLOCUMATINES OF DEATH SHIEDIC COMMENTS PARABILLES SPECIAL COMMENTS

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and this break to be the real and the second											
	OPERATOR IN RESPONSIBLE CHARGE										
Gary Hutch	:nft		7305								
TYPED OR PRIN	TED NAME		CERTIFICATE NUMBER								
PRINCIPAL EXECUTIVE OFFICE	R OR AUTHORIZED AGENT	TELEPHONE	573-365-0455								
Gary F Hutchcraft	Gary F Hutchcraft		2018-01-04-07-51-20								
TYPED OR PRINTED NAME	SIGNATURE	Date									
	· · · · · · · · · · · · · · · · · · ·		ь								

PERMITTEE NAME/ADDRESS

State of Missouri

Department of Natural Resources
NATIONAL POLLITANT DISCHARCE ÉLIMINATION SYSTEM (NPDES)
DISCHARCE MONITORING REPORT (DMR)

ADDRESS

Lake of the Ozarks Regional WWTP I #3 Anderson Rood LAKE OZARK MO 65049

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ı l	2017	12	01	TO	2017	12	11					

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

PARTIE REALISPERADE AND GENERAL INSURFICIONS OF FAME CONTROL FING THIS LYMAN

Parameter		31/	SS	Unit		CONCE	VTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	CODE
Suspended Solids, percent removal	REPORTO	*****	10000			14440	98.4	2.00	Monthly	Calculated	
	REQRMNT	****	****			•••••	Monthly Average Minimum : 85	16	Monthly	Calculated	
	REPORTD	****	****			5.9	3.1	1	Weekly	24 Flour Composite	
	REQRMNT	****	4000	1	****	Weekly Average: 45	Monthly Average 30	mg/L	Weekly	24 Hour Composite	

PRINCE PRINCE PRINCE CONTROL PRINCE OF CONTROL P

and compressionation for his country's pullations.		CONTRACTOR CONTRACT									
	OPERATOR IN RESPONSIBLE CHARGE										
Gary Hu	icheraft		7305								
TYPED OR PR	INTED NAME	CERTIFICATE NUMBER									
PRINCIPAL EXECUTIVE OFFI	ER OR AUTHORIZED AGENT	TELEPHONE	573-565-0455								
Gain F Hutchcraft	Gary F Hutcheraft		2018-01-04-07-51-20								
TYPED OR PRINTED NAME	SIGNATURE		Date								
			Page 2								

PERMITTEE NAME/ADDRESS

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

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

FROM

4178914500 4178914399 (fax)

NAME ADDRESS

Lake of the Ozarka Regional WWTP b #5 Anderson Road LAKE OZARK MO 65049

MO0103241 SM2 A 19 RMX1 NUMBER DESCHARGE NUMBER MONITORING PERIOD YEAR MO DAY YEAR MO DAY

NUMBER RESERVED AND GRANDS FOR THE CIRCLS BELOWN

Parameter		M	ASS	Unit	CON	CENTRA	TION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO3) (00900)	REPORTO	4000	*****		359	****	359		Monthly	Gmb	1
	REQRMNT	*****	*****		Daily Maximum Monitoring Required	****	Monthly Average Monitoring Required	mg/L	Monthly	Grab	

FIGURE 18 OF THE MENT OF CONTROL NO.

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connect the section on given frameworkings, technologic participation the introduction and interpretable and introduction and introduction and introduction and	
and are processing to the Assessment and glassia	
OPERATOR IN	RESPONSIBLE CHARGE
Gary Hutcheraft	7305
TYPED OR PRINTED NAME	CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 573-365-1455
Gan F Huschcraft Gan F Huschcraft	2018-01-04-07-51-20
TYPED OR PRINTED NAME SIGNATURE	Date
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-		+-	0 0	012	h 410	2	1	3	740	L 725	5.840	755	16.01	7 743	7,525 49	P.	11,940	5 440 5	2777	200	L	1	USI &	7654	0410	7,400	1	1011	h.265	=		1 5	1 5	1	1	-	1
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Lake Ozark / Osage Beach Joint Wastewater Plant INVENTORY LIST January 2018

TOOLS

	10005	
Item No.	Quantity & Item	* $& X = New 2017$
1	1 - Craftsman 3 drawer tool box	
2	1 - Craftsman 5 drawer tool box	
3	1 - Assortment SAE Allen wrenches	
4	I - 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	I - 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	I - Assortment of straight & Philips screwdrivers	
12	1 - 1/2"staight screwdriver socket	
13	1 - 1/4"deep socket set 4mm -14mm	
14	1 - 1/4" deep socket set 3/16 - 1/2	
15	I - 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" 1/2" extensions & - 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	I - 1/2" socket shallow socket set 9mm - 21mm	
30	1 - 1/2" socket shallow socket set 7/16 - 1 1/4	
	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	
	1 - 10 piece ignition wrench set 5/32 - 7/16	
	2 - Boxed end wrench's 1/2-9/16 & 5/8-11/16	
	3 - 3/8, 4 - 7/16, 2 - 11/16, 2 - 3/4, 2 - 13/16, 2 - 7/8 combination wrenches	
	4 - 15/16, 4 - 1", 3 - 1 1/16, 5 - 1 1/4 & 4 - 1 1/18 comb. wrenches	
	3 - open end wrenches 7/16-17/32, 5/8-11/16, & 3/4-7/8	
	1 - Set pm comb. Wrench's 1/4 thru 7/8 in pouch	
	3 - snap ring pliers	
	2 - pair channel lock pliers, 1 blue handle & 1 black	
	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 2018

TOOLS

Item No.	Quantity & Item	* & X = New 2017
44	6 - electrical screwdrivers, 3 straight & 3 philips head	
45	2 - wire stripers	
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	I - ice pick	
65	1 - punch & chisel set	
66	1 - 2" C clamp & 2 - 4" C clamps	
67	2 - putty knives	
68	I - parts brush	
69	I - 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 76	3 - wire brushes	
76	I - tire gauge	
77 78	1 - 6" square	
78 70	2 - rag pullers 1 - crow bar	
79 80		
81	l - garden rake l - round point shovel	
82	1 - flat shovel	
83	1 - 10lb straight bar	
84	1 - pick	
85	1 - anti freeze tester	
86	I - flat bar	
00		

Lake Ozark / Osage Beach Joint Wastewater Plant INVENTORY LIST January 2018

TOOLS

Item No.	Quantity & Item	* & X = New 2017
87	1 - Craftsman 28 pc. tap & die set	
88	I - 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	I - 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	
	SLUDGE TRUCK TOOLS	
99	1 - grease gun	
100	1 - 20 piece Stanley SAE Comb. end wrenches 1/4 - 7/8	
101	1 - Set Comb. End wrenches 8mm - 18mm	
102	1 - Rubber maid tool bag	
103	4 - Stanley flathead screwdrivers	
104	2 - Stanley phillips screwdrivers	
105	AC Delco T20x4" star screwdriver	
106	AC Delco 2x1 1/2" phillips screwdriver	
107	AC Delco 1/4"x1 1/2" slotted screwdriver	
108	13 oz. Wood handle claw hammer	
109	RayOVac industrial flashlight	
110	25' task force tape measure	
111	7 WR vise grip	
112	10 WR vise grip	
113	Stanley lineman pliers 84-113	
114	Stanley wire cutters 84-060	
115	Stanley crescent wrench 85-763	
116	1 - Set of wheel chocks	
117	1 - log chain	
118	1 - air hose	
119	1 - assortment Buse fuses & 1157 bulbs	
	MISCELLANEOUS EQUIPMENT	
120	1 - Ryobi 18 volt Drill, Circular Saw, Recip saw, Flashlight, Vacuum Comb	o Kit w/2 batteries
121	1 - Millermatic Wire feed welder w/helmet & gloves	
122	1 - 10-3 50ft & 1 - 10-3 100ft Extension cord	
123	4 - metal lockers in men's restroom	
124	2 - metal lockers in women's restroom	
125	1 - plastic mop bucket w/wringer	
126	2 - Sigma samplers for parts	

Lake Ozark / Osage Beach Joint Wastewater Plant INVENTORY LIST January 2018

MISCELLANEOUS EQUIPMENT

	· ·	
Item No.	Quantity & Item	* & X = New 2017
127	I - 4' step ladder, fiberglass	
128	1 - 6' step ladder, fiberglass	
129	10' stepladder, wood	
130	24' 300 lb rated extension ladder, aluminum	
131	24' 300 lb. rated extension ladder, fiberglass	
132	2 - set of plastic saw horses	
133	1 - 6"x 10' suction hoses	
134	2 - 6" x 25' suction hose	
135	1 - 4" x 60' suction hose	
136	1 - 4" x 15' discharge hose @ septic unloading station	
137	2 - Schumacher battery chargers, 1 model SE-82-6 & 1 model XC103-CA	
138	1 - 100' extension cord	
139	1 - 50' extension cord	
140	1 - 1 gallon plastic gas cans	
141	2 - 5 gallon steel safety gas cans	
142	1 - misc. log chains, headwork's tool room	
143	5 - 50'x1 1/2" fire hoses with 2 nozzles*	
144	5 - Garden hoses	
145	1 - mechanic creeper	
146	2 - Craftsman gas leaf blowers, older one not running	
147	1 - Craftsman 4 cycle weed eater	
148	1 - Stihl weed eater	
149	1 - Kawasaki weed eater	
150	I - cherry picker (engine hoist)	
151	1 - 9 gallon portable air tank	
152	1 - Campbell Hausfield 26 gallon air compressor	
153	1 - CH air drill	
154	1 - CH air ratchet	
155	1 - CH air grinder	
156	I - CH air impact wrench	
157	1 - CH air chisel w/4 chisels	
158	1 - air tire inflator	
159	1 - Pro-Arc oxy-acc torch kit & tanks	
160	1 - Pro-Force 33 paint sprayer	
16!	1 - 15 gal 12 volt portable sprayer	
162	1 - 60gal Ingersoll Rand in UV building	
163	1 - 3 ea. grease gun	
164	1 - Cowhbian 5" multi bench vise	
165	3 - shop vac's	
166	2 - drum dollies	
167	1 - Commercial Elec. Amp meter, HDSA 500	
168	1 - Commercial Elec. Multi meter, HDM 4100	
169	2 - insulated fuse pullers, 1 large & 1 small	

Lake Ozark / Osage Beach Joint Wastewater Plant **INVENTORY LIST** January 2018

	MISCELLANEOUS EQUIPMENT	
	. Quantity & Item	* & X = New 2017
170	1 - GB circuit tester	
171	I - 3/8 hammer drill	
172	1 - Skil 14.4 drill kit, w/ battery & charger	
173	I - Black & Decker bench grinder	
174	1 - Black & Decker hand grinder, 4 1/2"	
175	1 - 115V 3/8 VSR Drill/ Driver	
176	1 - propane torch, elec. Start	
177	I - strap 1 ton come along	
178	2 - chain come alongs, 1 ton & 3 ton	
179	1 - cable come along, 1 ton	
180	l - 2 ton floor jack	
181	1 - 12 ton high lift jack	
182	2 - yellow air hoses	
183	I - 100gal. Portable Diesel fuel tank	
184	I - Fluke T5-1000 Volt/Amp meter*	
185	1 - wheel barrow	
186	1 - garden cart	
187	1 - Coleman power washer (doesn't run, will self on ebay in 2018)	
188	1 - portable hand work light	
189	1 - portable work light stand w/ dual mounted lights	
190	4 - Strong Arm electric winches - 3 for clarifier scum baskets & 1 for pulling	g lift station numps
191	1 - AMT 3" trash pump w/wheel kit	5 mm station pamps
192	1 - 3" 50ft & 1 - 30ft suction/discharge hose w/couplings	
193	1 - North Star 3000 PSI Steam and Hot Water Pressure Washer	
194	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
105	OFFICE INVENTORY	
195	1 - wooden desk	
	I - metal desk	
	4 - Office chairs	
	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer	
	1 - 3 shelf bookshelf	
	1 - PC, w, speaker in monitor, keyboard, and surge arrestDELL	
	1 - MFC-7360N Brother copier / printer	
	1 - conference table	
	27 - folding steel chairs	
	3 - Phones (cradle style)	
	1 - Fellowes paper shredder	
	1 - Bissell vacuum cleaner	
	1 - Emerson TV / VCR Combo (for training)	
	1 - Emerson microwave	
	1 - Magic chef refrigerator	
210	l - Culligan water cooler	

Lake Ozark / Osage Beach Joint Wastewater Plant INVENTORY LIST January 2018

CONSUMABLE MATERIALS

* & X = New 2017

211 2 - 500 Gallon propane tanks, w/ 405 gallons as of 1/4/18

VEHICLE'S

- 1 2001 Dodge Dakota vin# 1B7FL26X015269588
 1 1994 Volvo White GMC Sludge Truck vin# 4V2JCBE75R833094
 1 1985 GMC 4 Wheel Drive Field Truck vin# 1GDL7D1YDV529996
 1 John Deere Rider (no deck) w/ snow blade (not running wore out, will sell on ebay 2018)
- 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	I - 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	I - 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	I - BOD meter & probeYSI 5905, not in use, obsolete	
237	I - 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	I - Hanna portable pH meter	
244	2 - Hach HQ40D meters, one with LBOD probe & 1 w/ Rugged LDO prob	e
245	1 - Hach Distillation Glassware set for Ammonia	
246	1 - Thermo Hot plate for distillation	
247	2 - Igloo Ice Maker for Samplers *	X Purchashed 1

Lake Ozark / Osage Beach Joint Wastewater Plant INVENTORY LIST January 2018

SAFETY EQUIPMENT

Item No.	Quantity & Item	* & $X = New 2017$
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	I - Lock Out/Tagout Station	
259	2 - Full Body Harness	
260	2 - Lanyards	
261	I - Tripod and Winch	
262	3 - First Aid Kits	
263	6 - Fire Extinguishers, Plant	
264	I - Fire Extinguishers, Office	
265	3 - Fire Extinguishers, Vehicles	
	SPARE EQUIPMENT & PARTS	
266	1 - 10hp Rebuilt Flyght lift station pump	
267	3 - electrical contact relay for pista grit	
268	1 - 3 phase monitors for lift stations	
269	3 - Allen Bradley PLC I/O Boards for UV control panel	
270	77 - UV bulbs	
271	49 - UV quartz sleeve	
272	3 - UV ballast	
273	2 - UV air cylinder rebuild kit & 2 outer bands	
274	4 - New UV air cylinder *	X Purchased 1
275	1 - UV air cylinder hose, approx. 20 ft.	
276	16 - Wiper Rings *	X Purchased 144
277	I - UV bulb cord w/I bulb sockets	
278	1 - blower for digesters	
279	4 - UV sensor brushes *	X Purchashed 8
280	1 - Vac pump rebuild kit for Field Gymmy sludge truck	
281	1 - Carboy for BOD water	
282	1 - electric cylinder valve for back of sludge truck	
283	1 - Fluorescent bulb ballast & 28 T-8 bulbs	
284	1 - quantity of assorted ¾, & 1" PVC pipe fittings	
285	1 - quantity of assorted nuts & bolts	
	2 - Transtector ACP-100 surge suppressor	
287	1 - Transtector PDS 1 tube surge protector	
288	1 - Alternating relay for lift stations	
289	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 2018

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.

Table of Contents	Page #
 Preliminary Damage Assessment Check List Personnel Inventory, Contact Order & Training Facility Emergency Equipment Inventory Command Post Designation Communication Policy Emergency Action Plan Fire Protection Plan & Hot Work Permit Emergency Identification and Analysis Facilities Security Priority Equipment and Processes Emergency Response Guidelines 	02 03 04 04 05 06 07-08 09 10 10
Section II Damage and Response	12-16
Section III Contingency Plan for Total Loss of Power Contingency Plan for High Flows Contingency Plan for Toxic Chemical Releases Contingency Plan for SSO's Contingency Plan for Sludge Spills	16 16 17 18
Appendix 1 List of Key Contacts & Local Utilities/Services/Suppliers Appendix 2 Chemical List & Facilities Map Appendix 3	19-22 23-24
Standard Conditions for NPDES Permits Appendix 4	25
Daily Readings-Weekly Maintenance Instructions Appendix 5	25-26
Permit Required Confined Spaces & Entry Permit Appendix 6	26-28
Lockout Instructions & LOTO Permit Appendix 7	29-30
 Deviation Notification Form & Wastewater Bypass Report Form 	31-32

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
Gary Johnson	Division Manager	573-874-8080	573-234-7946	314-581-6024
Tim Geraghty	VP/Director of Operations	636-561-3737	Ext. 101	314-575-4738
Dale Wagner	AWR President	573-874-8080	573-445-7302	573-864-1164

2: Contact Order

Contact Order	Corporate Office Contact	Division Contact	Outside Support Contact
1 2		Gary Hutchcraft John Hornback	
3			
4			Lonnie Madole
5			Kevin Klein
6			Josh Thompson
7	Gary Johnson		oodii i ilompaali
8	Tim Geraghty		
9	Dale Wagner		
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)
	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
•	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	
•	Dale Wagner	573-874-8080x232	573-864-1164	573-445-7302

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.
 - 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.
 - 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.
 - Keep combustible liquids in the storage cabinets. Keep the cabinet doors closed.
- Identify high risk areas and develop plans to minimize potential fire hazards.
 - 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.

A B	lia	IN C	HOT WORK PERMIT/ CHECKLIST
Location			Date: Supervisor
ork to	be done		
pecial P	Precautio	ons.	
ime Sta	rted:		Time Completed:
igned:			Date:
	(Indi	vidijal res	ponsible for Hot Work authorization.)
arii in oone			
			Hot Work Permit, the Supervisor or appointee shall inspect the work area and confirm e been taken to prevent fire.
Ves	No	N/A	Precautions
Ves	No	N/A	Is all cutting and welding equipment in good repair condition?
Yes	No	N/A	
Yes		N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered?
	No No		Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work
			Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered?
			Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/ ground clear of combustibles if possible? Combustible floors wet down, covered, or shielded?
			Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/ ground clear of combustibles if possible?
			Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Thoor/ground clear of combustibles if possible? Combustible floors wet down, covered, or shielded? No combustible material or flammable liquids?
Yes	No	N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Lloor/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? Work on Enclosed Equipment Equipment cleaned of all combustibles?
Yes	No	N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/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? Work on Enclosed Equipment
Yes	No	N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/ 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? Work on Enclosed Equipment Equipment cleaned of all combustibles? Containers/ drums purged of flammable vapors/ materials? Fire Watch
Yes	No No	N/A N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/ 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? Work on Enclosed Equipment Equipment cleaned of all combustibles? Containers/ drums purged of flammable vapors/ materials? Fire Watch To be provided during and 30 minutes after work completion?
Yes Yes	No No	N/A N/A	Itas pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/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? Work on Enclosed Equipment Equipment cleaned of all combustibles? Containers/drums purged of flammable vapors/ materials? Fire Watch To be provided during and 30 minutes after work completion? Supplied with fire extinguisher and or small charged fire hose?
Yes Yes Yes	No No	N/A N/A	Is all cutting and welding equipment in good repair condition? Has pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/ 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? Work on Enclosed Equipment Equipment cleaned of all combustibles? Containers/ drums purged of flammable vapors/ materials? Fire Watch To be provided during and 30 minutes after work completion?
Yes Yes Yes	No No	N/A N/A	Itas pre-task Tool Box Talk been administered? Within 25 Feet of Work Hoor/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? Work on Enclosed Equipment Equipment cleaned of all combustibles? Containers/drums purged of flammable vapors/ materials? Fire Watch To be provided during and 30 minutes after work completion? Supplied with fire extinguisher and or small charged fire hose?

G. Emergency Identification and Analysis

F	
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			
Raw sewage force mains to WWTP.	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			
Sluice gates in Oxidation Ditches and UV channels for draining purposes	5. Lift Station between aeration basins			
6. RAS force main back to Ditches	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.
 - 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 Carrousels. 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 carrousel 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:

- 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.
- Check all lift stations, secure by taking one of the two pumps off line, and providing emergency pumping if needed.
- 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 Past high flow events have the ditch from being discharged in the receiving stream. 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	16 41 66	573-348-2779	
KLOZ	FM 92.7	er er 11	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 Ju		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
			573-216-3878	
Gary Johnson	Division Manager	573-874-8080	314-581-6024	573-234-7946
Tim Geraghty	VP/Operations Director	636-561-3737 x101	314-575-4738	
Sandy Neal	AWR President	573-874-8080	573-808-5946	573-449-6887

Appendix 1

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Call Letters	Frequency	Location	Phone#	Fax#
KRMS	AM 1150	Osage Beach, Mo	573-302-7000	
KRMS	FM 93.5	46 66 46	573-348-2779	
KLOZ	FM 92.7	11 66 24	573-302-1993	
KTKS	FM 95	Versailles, MO	573-378-5669	573-378-664

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Call Letters	Channel	Location	Phone#	Fax#
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Local Newspapers

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Leader-Statesman	104 W. Jasper, Versailles		573-378-5441	
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			573-216-3878	
Gary Johnson	Division Manager	573-874-8080	314-581-6024	573-234-7946
Tim Geraghty	VP/Operations Director	636-561-3737 x101	314-575-4738	-
Dale Wagner	AWR President	573-874-8080 x232	573-864-1164	573-445-7302

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

			- Philolo	
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	070 200 7104
UV System	Shawn	Vandevanter Engineering	636-343-8880	314-724-1269
Laboratory	Colleen	Pace Labs	913-563-1406	0.11124 1200
Electrician	Steve Durban	Aesthetix Electric	573-348-1429	573-219-0043
Electrician	Leroy	Midwest Electric	573-348-2727	0.02100040
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 &	573-348-9999	
		Cooling		
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	0.0024 0000
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	070 004-0000
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	0101101012
Chemical Supplier	Larry Startin	Brenntag	417-887-3663	417-593-0108
Digester Aerators	Patrick	EDI	573-474-9456	111 000 0100
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	2. 3 333 3300
Piping Supplies	Justin	HD Waterworks Supply	573-348-1273	
Welding Service	Gary Koerber	GL Welding		573-680-3957
				270 000-0007

Waste Haulers

Source	Address	Phone#
Amos Septic	Linn Creek, MO	573-346-5992
Lake Region Water & Sewer	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

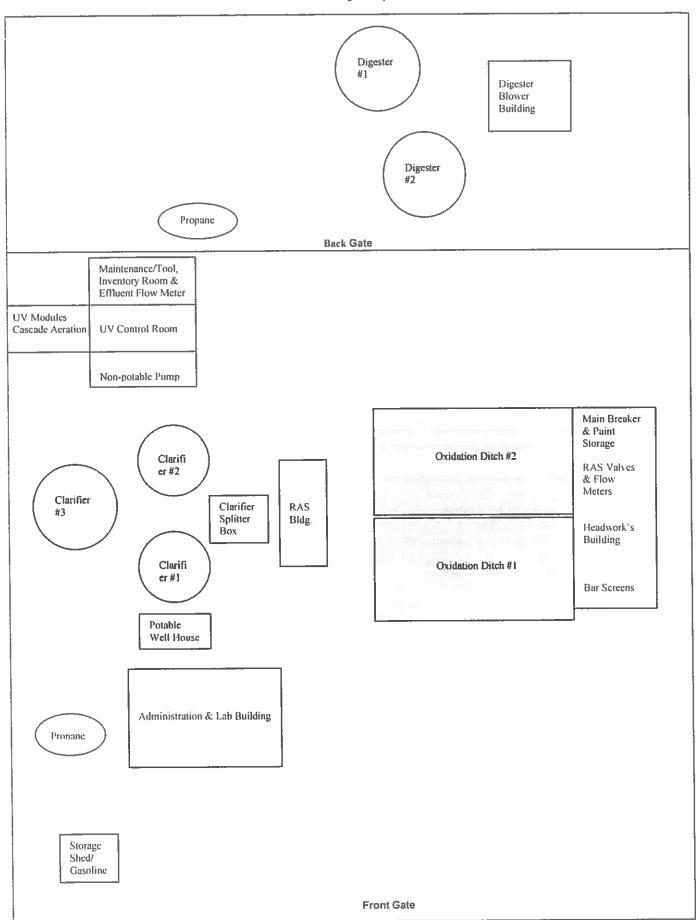
- Chevron Tube Grease
- Mystic tube Grease
- Hydraulic fluid
- Assorted cans spray paint
- · Assorted cans building and grounds paint
- Paint thinner / solvents

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 in the back of the Dodge pickup and stored at the sludge digester building over the hill.

Facility Map



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 a 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.

Post Confined Space Permit at Job Site			CO	CONFINED SPACE ENTRY PERMIT			
Date:	Date: Start Time:			Time Valid to: (End of Shift)			
Purpose of Enti-	iry: ne & Location:			Exact Location:			
GENERAL PREPARATIONS CHECKLIST: (C				heck All Items That Apply) VERIFIED COMPLETE INITIAL			
Permanent Lines/Hoses Isolated Temporary Lines/Hoses Removed Space Cleaned & Purged GFCI for All Electrical Equipment Energy Sources Locked/Tagged/Tried Air Mover/Ventilation Provided Other Applicable Permits (Hot Work, etc.) Attendant Has Radio or Phone Safety Lighting Rescue Equipment Set Up at Site Safety Harness with Retrieval Line Respiratory Protection Additional PPE Required Continuous Air Monitor Confined Space Sign Visible Rescue Team On-Site Special Requirements (List in Comments)							
Comments: Entrant-Attenda ATMOSPHERI	ant Communic	ation (check app	licable)	rbal Visual Si	gnal Radio		
Initials Time Acceptable			Oxygen	Combustible Gases	Carbon Monoxide <25	Hydrogen Sulfide	
		Levels →	19.5-23.5%	<10% LEL	ppm	<10 ppm	
ENTRY AUTHORIZATION: Entry Supervisor Signature Customer Health & Safety Representative (If Applicable)							

Rescue Team Status: Rescue Team Notified Team Needed at Space					
PERMIT CANCELLATI	ON (Check Only One)				
Work Complete, All En	trants/Tools Out, Ready For Re	-Activation Work NO	OT Complete, Entra	nts Out	
Entry Supervisor	Date Time				
Rescue & Emergency	Services:				
Plant Emergency #: Nearest Phone: Other Means of Summo					
AUTHORIZED ENTRA	NTS:				
Name (Print)	Signature	Y/N? witness air test (optional)	Entry Time	Exit Time	
		Without all lest (optional)			
AUTHORIZED ATTEN		Department	77.	ne	
Name	Signature	Department	111	iie .	
ENTRY SUPERVISOR		Department	Ti.	ne	
Name	Signature	Department		ne	
	Return Expi	red Permit to Office			

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: Purpose of Isolation: LOTO procedure used:	Exact Location:			
GENERAL PREPARATIONS CHECKLIST: (Chec	k 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	e Customer Hea	alth & Safety Representative		
AUTHORIZED EMPLOYEES:				
Name (Print)	Signatu	ire		
Return Expired Perm	nit to Safety Coordinator			

ReCAP DEVIATION NOTIFICATION FORM

Date of Incident	<i>#</i>	Time:		Division	
Location of devi	iation:				
Type of deviatio	n: W. Treatment [ote: Double-click on checkbox	Distribution	on W.W.	Freatment []	Collections
Description of d	eviation: SSO	Bypass 🔲l	Pressure Los	ss Sample	Analysis
SAI	MPLE TYPE & LIMIT		- AT	SAMPLE RESU	ULT
How did we bec	ome aware of the is	sue:			
Possible reason	(s) for or event(s) le	ading to d	eviation:		
Immediate corre	ctive actions taken:				
Further action p	lanned to eliminate	or reduce	future incid	lents:	
Other informatio	n or attachments:				
Completed by:		Title:			Date Reported:
Who was notified					
Name	Title		Date	Time	Comments
Completed form	is to be filled out ale	ectronicall	v and a me	lad with	1

Completed form is to be <u>filled out electronically and e-mailed</u> 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			CALLENGE CONTRACTOR	
PERMITTEE(MUNICIPALITY/C	ISTRICT & PLANT):		PERMIT NUMBER:	
COUNTY: PHONE NUMBER:				
COUNTY	FIONE			
SSO OR BYPASS DETAILS			THE PERSON OF BUILDING	
a. Street Address/Landmark/Cr	oss Street:	DECEMBER 1		
b. Complaint Name & Telephon	e #:	9)		
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	<u> </u>			
f. Categories of STP Bypass				
Head Works	Aeration/Biological Trea	atment	☐Digester	
Primary Basins	Clarifiers	ulifolit	Solids Handling/Drying Beds	
Other	Починена		Change Louding by And pens	
WATERCOURSE INFORMATI	ON CONTRACTOR OF THE CONTRACTO	in articles	rain tin California Salara (Salara)	
a. Name of Receiving Stream:			Length Affected:	
b. Discharge Course				
Runs on ground and abso	orbe into the coil			
Ditch. Name of surface w				
	rface water it drains to:		· · · · · · · · · · · · · · · · · · ·	
	narge:			
Other, describe:				
CORRECTIVE ACTIONS/CLE		150 - 21 - 150 C		
a. Flushing Removii		Other:		
b. Describe detailed actions tal	cen to correct & clean up the SSC)/Bypass and	any follow up actions:	
CLEAN LID DREEODMED BY				
CLEAN UP PREFORMED BY:				
		SARISHINE CO.		
CLEAN UP PREFORMED BY: REPORT PREPARED/SUBMI NAME (PRINTED):		TITLE:		
REPORT PREPARED/SUBMI		TITLE:	PS Description of the second s	
REPORT PREPARED/SUBMI		TITLE:		

NOTE: Any SSO, bypass or shutdown of a wastewater treatment facility and/or tributary sewer system, is prohibited unless necessary to prevent loss of life, personal injury or property damages. The Continuing Authority is required to notify the Department of Natural Resources by TELEPHONE or FAX by the next business day of any SSO or bypass, and to follow with a written report within 5 business days.

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.

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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 Purpose of Isol LOTO procedu	be Isolated:ation: re used:	Exact Location:	
GENERAL PR	EPARATIONS CHECKLIST: (Che	eck All Items That Apply)	
REQUIRED		VERIFIED COMPLETE	INITIAL
Temporary Energy So Notification Other Appl Additional Lockout/ T Special Re	ockout/ Tagout Devices Applied Lines/Hoses Removed/ Isolated urces Locked/Tagged/Tried of Affected Employees licable Permits (Hot Work, etc.) PPE Required agout Devices Visible equirements (List In Comments)		
ISOLATION A	UTHORIZATION:Supervisor Signa	ture Customer (If Applica	Health & Safety Representative able)
AUTHORIZED	EMPLOYEES:	Cia-	nature
	Name (Print)	Sign	iqui 6
	Return Expired Pe	rmit to Safety Coordinator	

ReCAP DEVIATION NOTIFICATION FORM

Date of Incident	:		Time:		Division	:
Location of devi	ation:		·			
Type of deviatio	n:	Treatment	Distributi	on W.W.	Freatment [Collections
Description of d	eviation	ı: SSO B	Bypass 🗍	Pressure Lo	ss	Analysis
SAI	MPLE TYPE	& LIMIT			SAMPLE RESU	ULT
How did we bec	ome aw	are of the iss	ue:			
Possible reason	(s) for o	r event(s) lea	ading to o	deviation:		
Immediate corre	ctive ac	tions taken:				
Further action p	ianned 1	o eliminate o	or reduce	future incid	lents:	
Other informatio	n or atta	achments:				
Completed by:			Title:			Date Reported:
Who was notified	<u>d?</u>					
Name	T	Title	1	Date	Time	Comments
					<u> </u>	
	-		-			
					1	
Completed form	ia ta k-	filled and de				

Completed form is to be <u>filled out electronically and e-mailed</u> 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	AND SECURITION OF THE PROPERTY.	(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
PERMITTEE(MUNICIPALITY/	DISTRICT & PLANT):	PERMIT NUMBER:		
COUNTY	PHONE N	I IMBER		
COUNTY	FHONE	UMDEN.		
SSO OR BYPASS DETAILS				
a Street Address/Landmark/C	rose Street:			
b. Complaint Name & Telepho				
c. Start Date & Time	11G 17.	End Date & Time:		
d. Total Time:		Volume (Gallons):		
e. Categories of SSO				
C. Calegorios S. CCC				
☐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 Tre			
Primary Basins	Clarifiers	Solids Handling/Drying Beds		
Other	Raw (Dry weather SSO or Influe	AS		
WATERCOURSE INFORMAT		Length Affected:		
a. Name of Receiving Stream		Le rigut Arieotea.		
b. Discharge Course				
Runs on ground and abs	sorbs into the soil			
Ditch. Name of surface				
	surface water it drains to:			
	charge:			
Other, describe:				
CORRECTIVE ACTIONS/CL		Control of the Contro		
a. Flushing Remov		Other:		
b. Describe detailed actions to	aken to correct & dean up the SS	D/Bypass and any follow up actions:		
CLEAN UP PREFORMED BY	<i>,</i> .			
CLEAN OF FREI ORMED BI				
REPORT PREPARED/SUBN	NITTED BY			
NAME (PRINTED):		TITLE:		
,				
SIGNATURE:		DATE:		

NOTE: Any SSO, bypass or shutdown of a wastewater treatment facility and/or tributary sewer system, is prohibited unless necessary to prevent loss of life, personal injury or property damages. The Continuing Authority is required to notify the Department of Natural Resources by TELEPHONE or FAX by the next business day of any SSO or bypass, and to follow with a written report within 5 business days.

Alliance Water Resources, Inc

To:

Joint Sewer Board

From:

Gary Hutchcraft

CC:

Gary Johnson

Date:

1/16/2018

Re:

Emergency Back-up Generator & Pickup quotes

Comments: As requested at the November 2017 Joint Sewer Board meeting the Board requested that we (Alliance Water Resources) look into companies that do design build generator projects and I have found four companies that are very interested in working with us and providing a complete turnkey emergency generator system.

> The board also requested us to see if we could get some bids on a new vs used pickup for the treatment plant and below you will find a list of both, generator companies and car dealers. The car dealers said they may be a little late getting the bids to us before the Board meeting due to new incentives coming out shortly after the first of the year.

Generator companies;

Michael Massolini w/ Martin Energy Group, Tipton, MO. Chuck Wentzel w/ Gateway Indutrial Power Inc., Collinsville, IL. Jeff Moss w/ Cummins Sales & Service, Fenton, MO. Tyler Stephenson w/ Foley Equipment, Kansas City, MO

Car Dealers:

Sakelaris Ford, Camdenton, MO Hulett Chevrolet, Camdenton, MO Riley Chevrolet, Jefferson City, MO