

**OSAGE BEACH/LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
September 20, 2011
4:00 p.m.
@ LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Committee Members

Penny Lyons, Mayor, Osage Beach
Johnnie Franzekos, Mayor, Lake Ozark
Nancy Viselli, City Administrator, Osage Beach
Dave VanDee, City Administrator, Lake Ozark
Don Langley, Alderman, Lake Ozark
Ron Schmitt, Alderman, Osage Beach
Rick King, Public Works Director, Osage Beach
Matt Michalik, Public Works Director, Lake Ozark
Gary Hamner

Non- Members:

Karri Bell, Treasurer, Osage Beach
Julie Huttenlocker, Joint Sewer Clerk, Lake Ozark
Gary Hutchcraft, Plant Manager
Gary Anger, Alliance Water Resources

3. MINUTES

Page Numbers

Minutes from August 16, 2011 1-3

4. REPORTS

Bill List	4-15
Revenue Budget Analysis	16
Expenditure Budget Analysis	17
Income & Expense Summary/ER Fund Analysis	18
Balance Sheet	19
Check Registers & Bank Statements	20-23
August 2011 Alliance Report and Flow Report	24-46

5. OLD BUSINESS

A. Quarry Discussion

6. NEW BUSINESS

A. Corporate Authorization Resolution	
B. Discussion of Power Outage on August 20, 2011	47-48
C. Letter of Warning from DNR	49-50
D. Discussion of the need for a Generator	

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE OCTOBER 18, 2011 @ 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK - OSAGE BEACH
Joint Sewer Board
MINUTES OF MEETING
August 16, 2011

CALL TO ORDER: Mayor Penny Lyons called the meeting to order @ 4:00 P.M., at Lake Ozark City Hall.

ROLL CALL:

Committee Persons Present:

Mayor Penny Lyons, OB
Mayor Johnnie Franzeskos, LO
Nancy Viselli, City Administrator, OB
Dave Van Dee, City Administrator, LO
Rick King, Public Works Director, OB
Matt Michalik, Public Works Director, LO
Gary Hamner

Committee Members Absent:

Don Langley, Alderman, LO
Ron Schmitt, Alderman, OB

Others Present:

Gary Hutchcraft, Plant Manager
Julie Huttenlocker, Joint Sewer Clerk
Karri Bell, Treasurer
Ed Rucker, Osage Beach City Attorney- entered at 4:15p.m.

ADOPTION OF PREVIOUS MINUTES:

Mayor Penny Lyons asked for a motion to approve the July 19, 2011 Minutes. Mayor Johnnie Franzeskos made a motion to approve the minutes; his motion was seconded by City Administrator Dave Van Dee. All present voted aye, motion carried.

BILLS:

Treasurer Karri Bell informed Members that she would like to add the Ameren UE bill which had just come in this week. The total bill amount was for \$8983.07.

Mayor Johnny Franzeskos made a motion to approve the Bills List with the amendment for the Ameren UE bill, second by City Administrator Nancy Viselli. All present voted aye, motion carried.

REPORTS:

REVENUE BUDGET ANALYSIS

Members reviewed. No discussion occurred

EXPENDITURE BUDGET ANALYSIS

Members reviewed. No discussion occurred.

INCOME & EXPENSE SUMMARY/ER FUND ANALYSIS

Members reviewed. No discussion occurred.

BALANCE SHEET

Members Reviewed. No discussion occurred.

CHECK REGISTERS

Members reviewed. No discussion occurred.

ALLIANCE REPORT & FLOW CHARTS:

The average daily incoming flow for July 2011 was 1.826 mgd. We had 0.3 inches of precipitation measured at the WWTP in July 2011.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 1.2 mg/l and 0.3 mg/l respectively for July 2011. This represented better than a 99.6% or better removal.

The MLSS combined average for both aeration basins was 3,645/l in July 2011. The total dry weight sludge inventory for July 2011 totaled 166,047 pounds; Alliance Member Gary Hutchcraft stated that this was the second lowest biosolids inventory in the last two and a half years. Plant Personal was able to land apply 138 loads of biosolids in July 2011.

Alliance Member Gary Hutchcraft informed Members that they sent out five bids for the Auto Dialer and only received two back, they were included in the packet. Members reviewed, some discussion occurred regarding the two bids that were received. Members agreed to make a motion under New Business which is where the agenda item was listed.

Mr. Hutchcraft also informed Members that they went out for bids for the UV Bulbs and Quartz Sleeves. Hutchcraft then stated that on the same bid sheet were bids for the Exhaust System on the GMC/Volvo Sludge Truck, Hutchcraft also informed Members that while they had the truck in for repairs on the exhaust he would like an approval to have the air-conditioning unit checked too.

Members reviewed both sets of bids which were provided at the meeting. A motion was made to go with the UV Doctor for the UV Bulbs by Mayor Johnny Franzekos; his motion was seconded by Board Member Gary Hamner. All present voted aye, motion carried.

A motion was then made by Mayor Johnny Franzekos to go with Roemers to fix the Exhaust and check the air-conditioning unit; his motion was seconded by City Administrator Nancy Viselli. All present voted aye, motion carried.

Mayor Penny Lyons then asked for a motion to approve the Alliance Reports and Flow Reports. City Administrator Nancy Viselli made a motion, second by City Administrator Dave Van Dee. All voted aye, motion carried.

Further discussion occurred between Members regarding the decrease in Osage Beach's Flows last month. Public Works Director Rick King explained the reason for the decrease. Members complimented Alliance Members for finding the decrease in flows and informing Mr. King as soon as possible.

OLD BUSINESS:

Mayor Penny Lyons provided Members with a copy of page 4 of the House Bill 89 and informed Members that she and Mayor Franzekos were going to go to Jefferson City to meet with Diane Franklin to explain the importance of the change that was recently made pertaining to the burden of proof.

NEW BUSINESS:

A. Awarding Bid for Auto Dialer Project:

Members reviewed during the Alliance discussion.

A motion was made by Public Works Director Matt Michalik to approve the bid from ECCO Electric in the amount of \$6,959.00; his motion was seconded by Mayor Johnny Franzekos. All present voted aye, motion carried.

B. Review of 2010 Audit:

Members reviewed, some discussion occurred amongst Members, Treasurer Karri Bell stated that there were no items to be corrected and that the audit was also available online at the Osage Beach website if anyone was interested in viewing it.

Some discussion occurred on page 11 and 13.

DISCUSSION:

Some Discussion occurred on the last two pages of the Alliance Report regarding the results of the testing from DNR.

ADJOURNMENT

Osage Beach Mayor Penny Lyons adjourned meeting at 4:25 pm.

Next Meeting: September 20, 2011 at 4 P.M at Lake Ozark City Hall.

Penny Lyons, Mayor

Julie Huttenlocker, Joint Sewer Clerk

JOINT SEWER BOARD
BILL LIST
September 20, 2011

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 30,169.53
OPERATING FUND BILLS TO BE PAID:	\$ 16,682.61
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 46,852.14

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4170	3123	Alliance Water Resources, Inc.	Management Fee	\$ 21,787.07
4185	3124	Ameren Missouri	Electric Sept 2011	\$ 8,382.46
TOTAL				\$ 30,169.53

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3125	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4010	3126	Equipment Replacement Fund	New Basin -Loan Payment	\$ 2,330.12
4020	3127	Alliance Water Resources, Inc.	Misc Repair/Main	\$ 142.00
4150	3128	Alliance Water Resources, Inc.	Slug Truck Alternator Repair	\$ 69.98
4020	3129	UV Doctor Lamps LLC	UV Spare Parts	\$ 3,225.89
4150	3130	Roemers Heavy Equipment	Repairs Truck Exhaust system	\$ 2,045.47
4220	3131	Zerger & Mauer LLP	Magruder Lawsuit July/Aug 2011	\$ 5,401.98
				\$ 16,682.61

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

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

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board

c/o Karri Bell

City of Osage Beach

1000 City Parkway

Osage Beach, MO 65065

INVOICE

Invoice No: 5004

Invoice Date: 01-Sep-11

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Sep-11 Base Fee	\$21,787.07
TOTAL DUE		\$21,787.07

(573) 874-8080 Fax (573) 443-0833

Osage Beach, MO 65065

Terms: 30 days

P.6

Sales Receipt

Sold To

AA Check Customer Lake

ALLIANCE WATER RESOURCES

Item	Description	Qty	Rate	Amount
Alt Domestic	Domestic Alt One Year Warranty 22 sl 130 amp SLUDGE TRK ALTERNATOR AWR PO, CK# 4845 GL Acct#: 6702-20 80.78 1220-20 69.98 Signature: <u>[Signature]</u> Date: <u>8/30/11</u>	4150	139.95	139.95T
Subtotal				\$139.95
Sales Tax (7.725%)				\$10.81
Total				\$150.76



Local Service, Nationwide
P.O. Box 1419
Thomasville, GA 31799-1419

INVOICE

BRANCH ADDRESS
HDSWW - OSAGE BEACH MO
Branch - 138
1049 B Industrial Dr
Osage Beach MO 65065
673/348-1273

INVOICE #	3519094
INVOICE DATE	8/23/11
ACCOUNT #	116902
SALESPERSON	STEVEN BURKE
BRANCH #	138

Total Amount Due	\$305.23
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Remit To:
HD SUPPLY WATERWORKS, LTD.
PO BOX 503660
ST. LOUIS, MO 63150-3660

1258 1 MB 0.390 E0318X 10470 D362782433 P852348 0001:0001



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

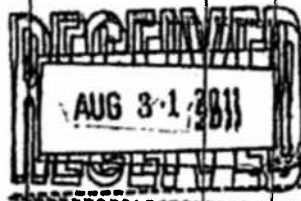
Shipped to:

CUSTOMER PICK-UP -

Return Top Portion With Payment For Faster Credit

Thank You For The Opportunity To Serve You.
We appreciate your prompt payment.

Date Ordered	Date Shipped	Customer PO No.	Job Name	Job No.	Bill of Lading	Shipped Via	Order Number
8/22/11	8/22/11	VERBAL	STOCK			YOUR TRUCK	3519094
Product Code	Description	Quantity Ordered	Quantity Shipped	Back-Ordered	Price	Per	Amount
96TCS50LB	TRI-CHLOR STICKS 50LB PAIL PART# 52118	2	2		142.00000	EA	284.00
GL Acct#: 6705-20163.23 1220-20142.00 Signature: <i>[Signature]</i> Date: 8/31/11 4020							



This transaction is governed by and subject to HD Supply Waterworks standard terms and conditions, which are incorporated herein by this reference and accepted. To review these terms and conditions, please point your web browser to <http://waterworks.hdsupply.com/TandC/>.

Freight	Delivery	Handling	Restock	Misc.	Tax	INVOICE TOTAL
					21.23	\$305.23

HDSWW - OSAGE BEACH MO
Branch - 138
1049 B Industrial Dr
Osage Beach MO 65065

THANK YOU FOR YOUR ORDER
VISIT
WATERWORKS.HDSUPPLY.COM
FOR OTHER SERVICES OFFERED

INVOICE:	3519094
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0001:0001

UV Doctor Lamps LLC
4082 Bead Lake Road
Newport WA 99156-9104

INVOICE

Invoice #	4947
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Bill To:
JOINT SEWER BOARD
ALLIANCE WATER RESOURCES, INC
PO BOX 1985
LAKE OZARK, MO 65049

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

Date	UVDR Rep	P.O. No.	Ship Via	FOB	Terms	Due Date
8/18/2011		gary	UPS	Newport WA	NET 30	9/17/2011
Item	Description	Ordered	Shipped	Unit Price	Amount	
1601-HP	GIA1512T9LCA/2S18/CB-O12 - SPEC 2848 - WEDECO 32143/4P/HP	18	18	140.00	2,520.00T	
1601-HP	GIA1512T9LCA/2S18/CB-O12 - SPEC 2848 - WEDECO 32143/4P/HP	1	1	0.00	0.00T	
1621	QUARTZ SLEEVE W/ END CAPS WEDECO TAK 55	4	4	150.00	600.00T	
FREIGHT	SHIPPING AND HANDLING			105.89	105.89	
RECEIVED AUG 25 2011		4020				
ALL PAST DUE INVOICES ARE SUBJECT TO A FINANCE CHARGE OF 1.5% AND ANY COLLECTION EXPENSES, ATTORNEY FEES, ETC. ASSOCIATED WITH THE COLLECTION OF THIS INVOICE				Subtotal	\$3,225.89	
REMIT TO: UV DOCTOR LAMPS LLC 4082 BEAD LAKE ROAD NEWPORT WA 99156				Sales Tax (0.0%)	\$0.00	
Tel # 509-447-5800 Fax # 509-447-5822				Total	\$3,225.89	

ROEMER'S HEAVY EQUIPMENT & TRUCK REPAIR

17570

P.O. Box 191
Osage Beach, Missouri 65065

Due To:
JOINT SEWER TREATMENT PLANT FUND

NAME: Alliance Water Resources, Inc CUSTOMER SERVICE NO. Aug 19-11
ADDRESS: P.O. Box 1985 ORDER WRITTEN BY P.M.
CITY, STATE, ZIP: Osage Beach, Mo. 65049 BUSINESS PHONE: 316-8398 EXT. 365-0455 ODOMETER IN 00000000
HOME PHONE: 316-8398 EXT. 365-0455 ODOMETER OUT 00000000
YEAR, MAKE AND MODEL: 94 GMC White GMC 1000 LICENSE NUMBER 78
SERIAL NUMBER: R33094 MOTOR NUMBER 78 TERMS 00000000

DESCRIPTION OF WORK

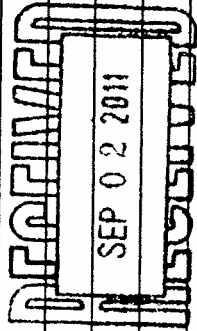
☐ LUBE ☐ CHANGE OIL ☐ OIL FILTER ☐ TUNE-UP ☐ TRANS. ☐ DIFF.

Check and Repair Exhaust System, Repair
and Replace Muffler and Elbow's, install new
flex pipe and replace exhaust stack,
check fuel tank at injector pump, remove
leaking Plugger Assembly and replace seal,
install Plugger and Check for leaks, check fuel tank
at fuel filler drain, remove and replace 1/2 inch drain
check air conditioning system, remove and replace
A/C compressor, and Bell Vacuum and Elbow System.

AMOUNT

TOTAL LABOR 720 00
TOTAL PARTS 1276.75
ACCESSORIES
GAS, OIL & GREASE 48.92
SUBLET REPAIRS
EPA/WASTE DISPOSAL
TAX
TOTAL 2045.47
THANK YOU!

QTY	PART NO. AND DESCRIPTION	PRICE
1	ZFS89781A Elbow	57.98
1	967098 new compressor	502.13
1	ZFS86115M muffler	304.66
1	ZFS89256A Reducer	49.99
2	ZFS89537K clamp	13.99
2	ZFS89538K clamp	14.66
1	9570 V-Belt	37.27
2	5" Flex Pipe	12.64
1	4" Flex Pipe	9.45
1	5" X 5" Exhaust Stack	26.42
1	5" Straight Exhaust Pipe	16.30
1	7M-41603 Plug Seal	3.69
TOTAL PARTS		1276.75
ACCESSORIES		
TOTAL ACCESSORIES		



ZERGER & MAUER LLP

1100 Main Street

Suite 2100

Kansas City, MO 64105

816/759-3300

Federal ID No. 27-5426971

STATEMENT

PRIVILEGED & CONFIDENTIAL

City of Osage Beach
 c/o Nancy Viselli
 1000 City Parkway
 Osage Beach, MO 65065

Account No. 1014.0002
 RE: Magruder

Statement Date: 08/24/2011
 Statement No. 370
 Page No. 1

Fees

		Rate	Hours	
07/07/2011				
MLR	Review and analyze questions presented by Magruder regarding procedure of new hearing.	250.00	0.30	75.00
SEM	Review order regarding approving order from T. Duggan; telephone conference with T. Duggan, A. Troutwine and R. Brownlee; prepare notes regarding same.	280.00	1.50	420.00
07/12/2011				
SEM	Prepare letter to Mayor Lyons regarding petitioners/citizens; prepare notes regarding same.	280.00	0.50	140.00
07/13/2011				
SEM	Prepare response to audit letter request. NO CHARGE	280.00		
07/15/2011				
SEM	Prepare letter to Mayor Lyons regarding telephone conference with opposing counsel; prepare notes regarding same. NO CHARGE	280.00		
07/19/2011				
SEM	Review list of petitioners formerly represented by counsel; prepare letter to Mayor Lyons regarding same.	280.00	0.50	140.00
07/21/2011				
MLR	Plan and prepare for response to order from hearing officer requesting briefing and hearing strategy.	250.00	0.20	50.00
07/22/2011				
MLR	Draft and revise motion and suggestions in support pursuant to the Order of the Administrative Hearing Commission.	250.00	3.40	850.00

To ensure proper credit, please include account number and statement date on remittance checks. Thank you.

City of Osage Beach
Account No. 1014.0002
RE: Magruder

Statement Date: 08/24/2011
Statement No. 370
Page No. 2

		Rate	Hours	
SEM	Review letter from Miller County regarding possible dismissal; prepare letter to clerk of court regarding same.	280.00	0.50	140.00
07/23/2011				
MLR	Draft and revise brief in response to Order of Administrative Hearing Commission.	250.00	3.40	850.00
MLR	Draft and revise	250.00	0.30	75.00
07/25/2011				
MLR	Draft and revise brief requested in Order from Administrative Hearing Commission.	250.00	0.70	175.00
07/26/2011				
MLR	Draft and revise brief in response to Order by Administrative Hearing Commission; conference with S. Mauer.	250.00	0.90	225.00
SEM	Telephone conference with A. Troutwine and T. Duggan; prepare notes regarding same; edit brief regarding issues raised by Magruder; prepare notes regarding same; legal research for same; telephone conference with A. Troutwine regarding status.	280.00	2.00	560.00
07/28/2011				
EDC	Review letter from T. Duggan regarding approval to close case; review his objection to our submission for costs regarding his position on closing case.	160.00	0.70	112.00
07/29/2011				
SEM	Review order from N. Chapel regarding petitioners; prepare letter to E. Rucker regarding same. NO CHARGE	280.00		
07/31/2011				
MLR	Draft and revise brief to Administrative Hearing Commission for filing on August 1.	250.00	0.80	200.00
	For Current Services Rendered		15.70	4,012.00

Expenses

07/08/2011	Postage	0.44
07/08/2011	Photocopy charges	0.40
07/13/2011	Postage	1.76
07/13/2011	Photocopy charges	0.80
07/19/2011	Photocopy charges	0.80
07/25/2011	Postage	1.76
07/26/2011	Photocopy charges	0.20
07/29/2011	Postage	0.88

City of Osage Beach
Account No. 1014.0002
RE: Magruder

Statement Date: 08/24/2011
Statement No. 370
Page No. 3

07/29/2011	Photocopy charges	0.80
	Total Expenses	7.84

Advances

07/22/2011	Online legal research	36.50
	Total Advances	36.50

Total Current Work	4,056.34
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Previous Balance	\$1,460.86
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Payments

07/20/2011	Payment	-115.22
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Balance Due	<u>\$5,401.98</u>
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Please Return This Portion With Your Payment.

AMOUNT DUE	DUE DATE
\$7,876.36	Sep 20, 2011
AMOUNT PAYABLE AFTER Sep 29, 2011	ACCOUNT NUMBER
\$7,994.51	45800-05832

Amount Enclosed \$ _____



>00579 0081453 0001 092139
 ALLIANCE WATER RESOURCES INC
 ACCTS PAYABLE
 206 S KEENE ST
 COLUMBIA, MO 65201

00579 1 MB 0.380 MAX 630



Ameren Missouri
 P.O. Box 66301
 St. Louis, MO 63166-6301

60600000 0045800058302 000007876360 000007876360

Keep This Portion For Your Records

ACCOUNT NUMBER	45800-05832
NAME	ALLIANCE WATER RESOURCES INC
SERVICE AT	3 ANDERSON RD, - LAKE OZARK, MO 65049

BILL DATE	Sep 8, 2011
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TOTAL AMOUNT DUE BY	Sep 20, 2011	\$7,876.36
DELINQUENT AFTER	Sep 29, 2011	\$7,994.51

Payment Received on Aug 19, 2011

\$8,525.22

TYPE OF READING	METER NUMBER	SERVICE FROM TO	NO DAYS	PREVIOUS METER READING	PRESENT METER READING	READING DIFFERENCE	METER MULTIPLIER	THERM FACTOR	USAGE	R D
Total kWh	11673321	08/07-09/06	30	6597.0000	7215.0000	618.0000	160.0000		98880.0000	A
Peak kW	11673321	08/07-09/06	30	0.0000	1.0580	1.0580	160.0000		169.2800	A

Service To			SUMMARY		Service To	
Total kWh	09/06/2011	98880.0000	Peak kW	09/06/2011	169.3000	
Billing Demand	09/06/2011	169.3000	Total Billing Demand	09/06/2011	169.3000	

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service		Service From 08/07/2011		To 09/06/2011	
Demand Charge	169.30 kWh	@ \$4.34000000		\$734.76	
Energy Charge/Hours Used	25,395.00 kWh	@ \$0.09300000		\$2,361.74	
Energy Charge/Hours Used	33,860.00 kWh	@ \$0.07000000		\$2,370.20	
Energy Charge/Hours Used	39,625.00 kWh	@ \$0.04700000		\$1,862.38	
Customer Charge				\$83.54	
Fuel Adjustment Charge	98,880.00 kWh	@ \$0.00419000		\$414.30	
Energy Efficiency Pgm Charge	98,880.00 kWh	@ \$0.00050000		\$49.44	
Total Service Amount				\$7,876.36	

Current Amount Due	\$7,876.36
Prior Amount Due	\$0.00
Total Amount Due	\$7,876.36

Seasonal Rate Change - Customer bills for the next eight months will reflect the lower winter costs for providing electric service. Look for ways to control your winter bills by visiting AmerenMissouri.com for tips on using energy efficiently.

A late payment charge of 1.5% will be added for any unpaid balance on all accounts after the delinquent date.



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

Account Number	Account Name	8/31/2011				2011 Actual as of 8/31/2011	2011 August Revenue	Percent YTD
		2009 Actual	2010 Actual	2011 Budget				
3020	Osage Beach	497,506.57	407,036.02	396,900.00		264,111.61	33,975.61	67%
3010	Lake Ozark	88,558.73	92,130.61	93,100.00		62,553.04	6,857.72	67%
3100	Interest	47.88	136.11	100.00		582.48	11.24	582%
3060	Waste Haulers' Fee	45,240.00	41,630.00	38,000.00		27,737.00	4,740.00	73%
3030	Misc Income Gen Grant	209.40	0.00	0.00		0.00	0.00	0%
Total Operating Fund		631,562.58	540,932.74	528,100.00		354,984.13	45,584.57	67%
E/R Fund Income		1,183.30	1,645.40	1,000.00		1,037.11	18.28	104%
TOTAL INCOME		632,745.88	542,578.14	529,100.00		356,021.24	45,602.85	67%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
8/31/2011**

Account Number	Account Name	2009 Actual	2010 Actual	2011 Budget	2011 Actual as of 8/31/2011	2011 August Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	42,000.00	27,737.36	3,467.17	66%
4010	ERF Repayment	27,961.44	27,961.44	27,961.44	18,640.96	2,330.12	67%
4020	**Maintenance & Repair	34,052.32	15,611.62	57,000.00	2,182.25	468.80	4%
4140	Insurance	16,305.00	16,211.00	17,000.00	17,127.00	0.00	101%
4150	Vehicle Repair/Maint	5,906.73	2,660.05	3,000.00	719.93	148.72	24%
4160	Haulers Fees to Contractor	8,600.00	8,000.00	8,000.00	8,000.00	294.00	100%
4170	Contract Management	308,837.65	312,836.20	265,000.00	179,376.30	21,787.07	68%
4185	Electric	0.00	0.00	65,000.00	42,135.36	8,983.07	65%
4190	Miscellaneous	0.00	0.00	0.00	0.00	0.00	0%
4200	Audit	1,550.00	1,600.00	1,650.00	1,650.00	1,650.00	100%
4220	***Professional Service	155,062.28	24,828.71	30,000.00	4,244.12	0.00	14%
4240	*Capital Purchases	5,339.49	1,659.40	12,000.00	6,192.91	0.00	52%
	Totals	605,210.95	452,974.46	528,611.44	308,006.19	39,128.95	58%
	**E/R Expenses	41,562.00	31,809.73	10,000.00	1,523.00	0.00	15%
	TOTAL EXPENSES	646,772.95	484,784.19	538,611.44	309,529.19	39,128.95	57%
	***Professional Services:						
	Engineering Consulting Fee/Backup Generator		5,000.00				8,000.00
	Normal/Magruder Lawsuit		25,000.00	Paid 04/11	Pressure Washer/Steam Clean		4,000.00
			<u>30,000.00</u>				<u>12,000.00</u>
				Paid 03/11	Unbudgeted Lab Equip. Purchase		<u>2,344.53</u>
	**Maintenance & Repair						
	UV Spare Parts						5,000.00
	Replace Wooden drs w/ Fiberglass						4,000.00
	Rock for Road						2,000.00
	Normal Maintenance						6,000.00
	#2 Aeration Basin Main.						<u>40,000.00</u>
							<u>57,000.00</u>

OPERATING FUND INCOME AND EXPENSE SUMMARY
8/31/2011

Beginning Balance	218,162.94
Income - Osage Beach	33,975.61
Income - Lake Ozark	6,857.72
Income - Other	0.00
Income - Waste Haulers' Fees	4,740.00
Interest - Checking	11.24
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-5,797.29
Expenses	-33,421.66
Ending Fund Balance	224,528.56
NOW Account - Central Bank	124,026.55
CD First National Bank, 1.00%, 01/26/12 #000049	100,502.01
Outstanding Checks:	0.00
Deposit in Transit:	0.00
	224,528.56

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
8/31/2011

Beginning Balance	214,122.06
Interest - Checking	18.82
Income - CD Interest	0.00
Transfers From E/R Fund	5,797.29
Transfers to E/R Fund	0.00
Income - Miscellaneous	0.00
Expenses	0.00
***** Fraud Expenses (will be reversed in October)	-449.75
Ending Fund Balance	219,488.42
NOW Account - First Bank	107,327.37
CD First National Bank, 1.00%, 01/09/12 #000048	112,161.05
Deposit in Transit	0.00
Outstanding Checks:	0.00
	219,488.42

**OPERATING FUND
BALANCE SHEET
8/31/2011**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	224,528.56		
ACCOUNTS PAYABLE	DUE TO E.R. FUND - BASIN		60,740.93	
EQUITY	FUND BALANCE		163,787.63	
TOTAL OPERATING FUND		224,528.56	224,528.56	-

**EQUIPMENT REPLACEMENT FUND
BALANCE SHEET
8/31/2011**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	219,488.42		
ACCOUNTS RECEIVABLE	DUE FROM OPERATING FUND - BASIN	60,740.93		
EQUITY	FUND BALANCE		280,229.35	
TOTAL EQUIPMENT REPLACEMENT FUND		280,229.35	280,229.35	-

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

**OPERATING
DIVISIONS**

MISSOURI

Bonne Terre

Bowling Green

Buchanan County #1

Cameron

Cape Girardeau

East Central Missouri
Water & Sewer
Authority

Elsberry

Franklin County #1

Franklin County #3

Henry County
Water Company

Henry County #3

Lake Ozark/
Osage Beach

Lincoln County #1

Nevada

Olympian Village

Parkville

Phelps County #2

Platte County #C-1

Proctor & Gamble

Ralls County #1

Sedalia

St Charles County #2

St Genevieve

Troy

IOWA

Maquoketa

Tipton

REPORT OF OPERATIONS

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

Month of August 2011

Submitted by Alliance Water Resources, Inc. for the

September 2011

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-01013241, except for E-coli during the power outage on the 20th. We had an unscheduled power outage on the 20th, due to severe storms which caused an unauthorized release to waters of the state and a scheduled power outage on the 23rd which was authorized by MDNR for prior Chlorination for disinfection. No work related lost time accidents have occurred during the month.

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	Fecal Coliform Colonies/100 ml
Monthly Average	1.4	0.6	NA	< 20
Peak Day	2.0	0.8	8.0	< 20
Percent Removal	99.3	99.6	NA	NA

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	Fecal Coliform Colonies/100 ml
Monthly Average	30	30	6-9	400 col/100 ml
Weekly Average	45	45		

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.706 MGD or 57% of Permitted flow with Lake Ozark contributing 16% of the total flow and Osage Beach contributing 84%. 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 91069 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 91 tanker loads of bio-solids during the month equivalent to a total of 336,700 gallons and 103,837 pounds dry weight solids.

471,138 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 205,000 gallons with a level of 2.0 feet in Tank 1 and 2.0 feet in Tank 2.

WASTEHAULERS

The plant received 47 loads of septage during the month totaling 118,500 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 Hazard Communication on the 8th of August.

REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 8th of September.
- We received our 3rd quarter 503 sludge sample results on the 11th and everything looked good. (see attachment)
- We had an unscheduled power outage on the 20th, due to the severe storm that passed thru in the early morning hours that lasted approximately 7 hrs. We took TSS & E.coli samples during the outage. The TSS results were 2.4 mg/L and the E.coli results were TNTC / 100mls, so we contacted Troy Pottieger w/MDNR and followed up with a written bypass report on the 22nd (see attachment).
- We had a scheduled power outage on the 23rd, due to Ameren Missouri moving some lines up on the new Eagles Landing development. We contacted Troy Pottieger on the 22nd and received pre-approval from Tina White w/ MDNR to put chlorine tabs in our launders ahead of time, so we could get our chlorine residual up to where we could properly disinfect. We agreed to run hourly residual test and take an E.coli sample, before, during and after the outage and we also took a TSS sample during. All the samples tested well within our parameter's limits. The E.coli results, before the outage was 4.8 / 100mls, during were 0.0 / 100mls and after was 1.0 / 100mls and the TSS was 0.8mg/L. Another written bypass report was mailed to MDNR on the 25th (see attachment). We have asked for prior approval from MDNR to let us use chlorine tabs for disinfection for any other future outages, but have not received a response back yet.

MISCELLANEOUS AND RECOMMENDATIONS

- We need to seriously look at purchasing a backup Generator ASAP.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF August 2011

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Aug		0.315	1.591	1.906	16.5	83.5						
2-Aug		0.251	1.393	1.644	15.3	84.7						
3-Aug		0.263	1.445	1.708	15.4	84.6						
4-Aug	0.3	0.270	1.428	1.698	15.9	84.1						
5-Aug	0.25	0.302	1.721	2.023	14.9	85.1	206	204	202	118	140	170
6-Aug	0.4	0.326	1.772	2.098	15.5	84.5						
7-Aug	0.1	0.399	1.851	2.250	17.7	82.3						
8-Aug	0.2	0.339	1.617	1.956	17.3	82.7						
9-Aug	0.25	0.277	1.457	1.734	16.0	84.0						
10-Aug		0.259	1.327	1.586	16.3	83.7						
11-Aug		0.246	1.302	1.548	15.9	84.1						
12-Aug		0.259	1.337	1.596	16.2	83.8	184	226	228	142	162	174
13-Aug	0.25	0.311	1.711	2.022	15.4	84.6						
14-Aug		0.339	1.647	1.986	17.1	82.9						
15-Aug		0.283	1.346	1.629	17.4	82.6						
16-Aug	0.3	0.252	1.172	1.424	17.7	82.3						
17-Aug	1.3	0.318	1.789	2.107	15.1	84.9						
18-Aug		0.241	1.187	1.428	16.9	83.1	152	144	190	112	122	182
19-Aug	1.5	0.304	1.614	1.918	15.8	84.2						
20-Aug	1.5	0.394	1.938	2.332	16.9	83.1						
21-Aug		0.318	1.433	1.751	18.2	81.8						
22-Aug		0.291	1.430	1.721	16.9	83.1						
23-Aug		0.241	1.259	1.500	16.1	83.9						
24-Aug		0.208	1.007	1.215	17.1	82.9						
25-Aug		0.228	1.113	1.341	17.0	83.0						
26-Aug		0.214	1.096	1.310	16.3	83.7	148	222	206	88	158	158
27-Aug		0.233	1.272	1.505	15.5	84.5						
28-Aug		0.282	1.458	1.740	16.2	83.8						
29-Aug	0.1	0.293	1.385	1.678	17.5	82.5						
30-Aug		0.226	1.049	1.275	17.7	82.3						
31-Aug		0.222	1.028	1.250	17.8	82.2						
SUM	6.5	8.704	44.175	52.879								
AVG		0.281	1.425	1.706	16	84	173	199	207	115	146	171
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

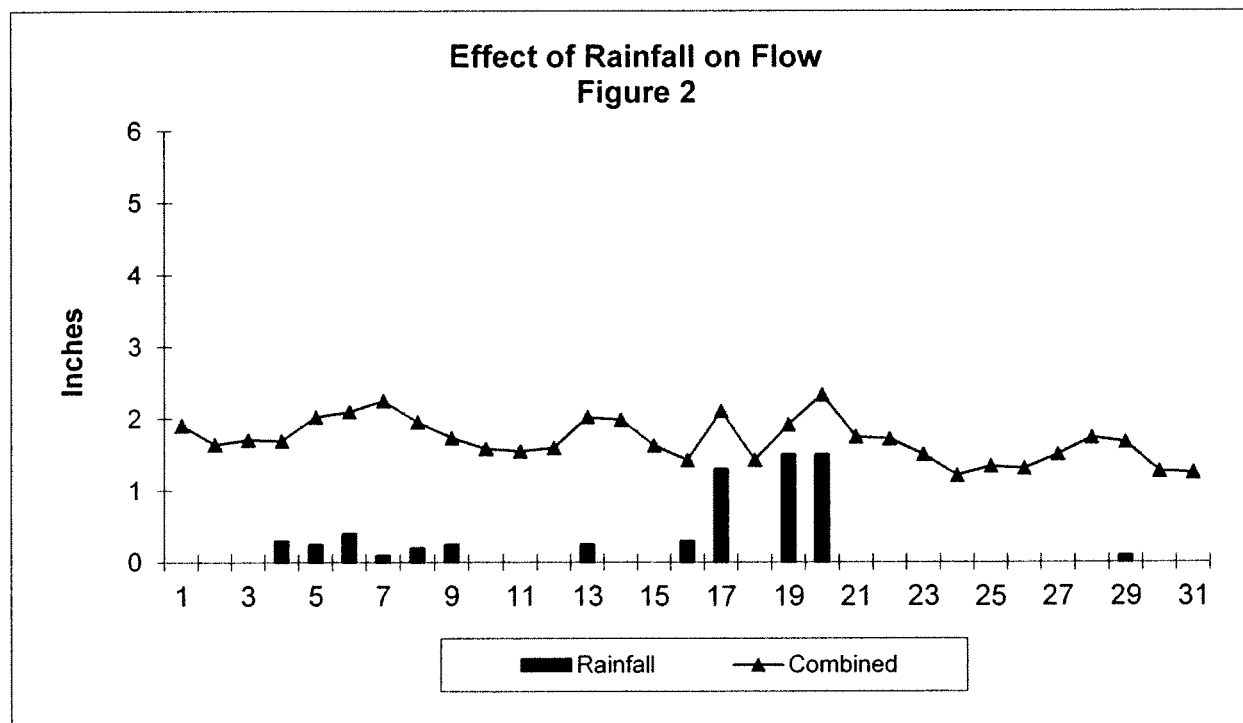
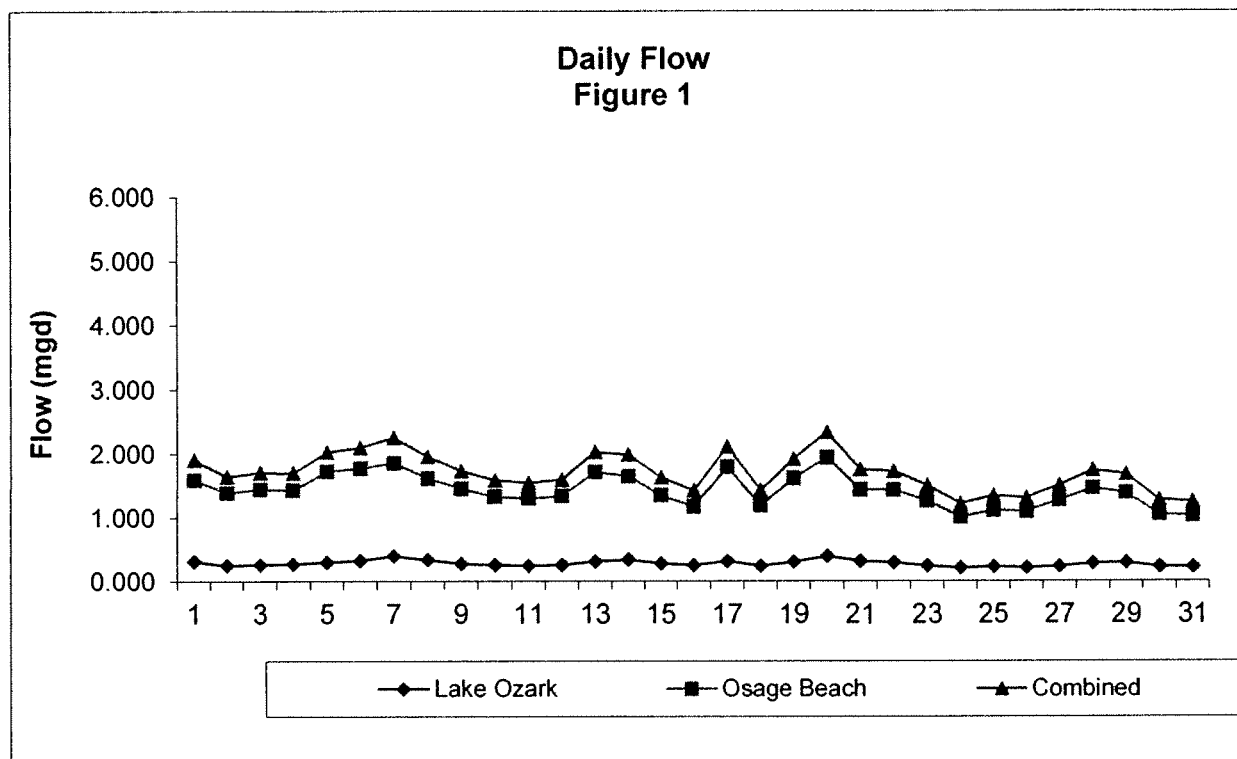
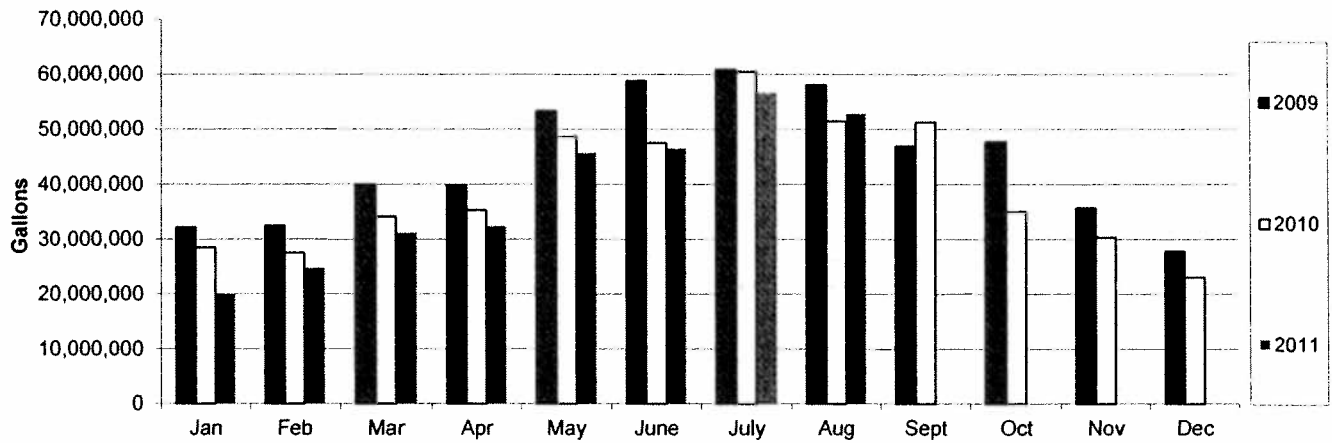


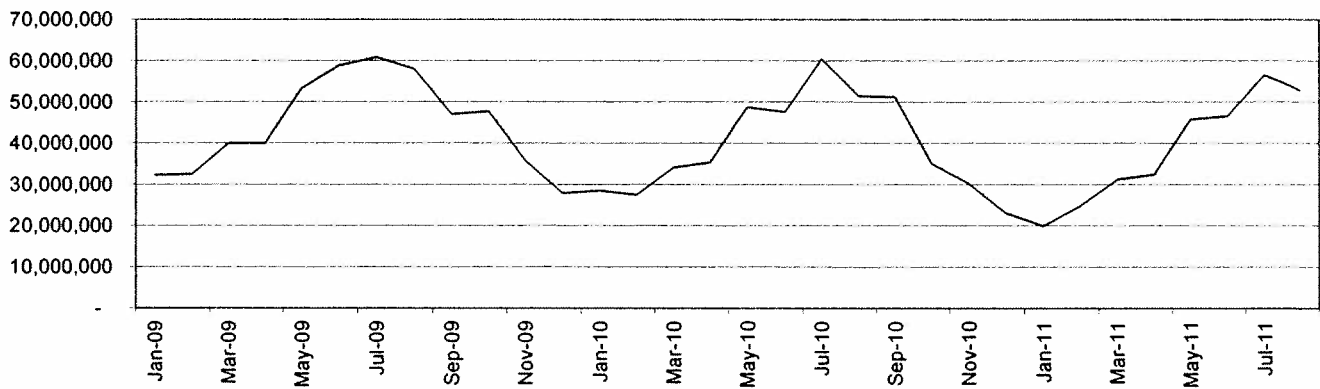
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2009</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	27,603,000	86%	4,633,000	14%	32,236,000	100%
February	3	28,264,000	87%	4,216,000	13%	32,480,000	100%
March	4.5	34,287,000	86%	5,701,000	14%	39,988,000	100%
April	4.6	33,832,000	85%	6,093,000	15%	39,925,000	100%
May	11	44,780,000	84%	8,533,000	16%	53,313,000	100%
June	10	49,564,000	84%	9,253,000	16%	58,817,000	100%
July	4.1	51,683,000	85%	9,198,000	15%	60,881,000	100%
August	3.7	49,673,000	86%	8,413,000	14%	58,086,000	100%
September	5.2	38,768,000	82%	8,243,000	18%	47,011,000	100%
October	11.8	39,271,000	82%	8,484,000	18%	47,755,000	100%
November	4.8	29,057,000	81%	6,697,000	19%	35,754,000	100%
December	3.5	21,993,000	79%	5,887,000	21%	27,880,000	100%
	67.0	448,775,000	84%	79,464,000	16%	534,126,000	100%
<u>2010</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	3.6	22,407,000	78%	6,144,000	22%	28,551,000	100%
February	2.8	21,783,000	79%	5,753,000	21%	27,536,000	100%
March	3.8	27,636,000	81%	6,500,000	19%	34,136,000	100%
April	3.6	28,951,000	82%	6,386,000	18%	35,337,000	100%
May	10.2	39,970,000	82%	8,765,000	18%	48,735,000	100%
June	4.4	39,496,000	83%	8,067,000	17%	47,563,000	100%
July	6.2	50,636,000	84%	9,837,000	16%	60,473,000	100%
August	2.7	42,922,000	83%	8,532,000	17%	51,454,000	100%
September	13.2	42,731,000	83%	8,532,000	17%	51,263,000	100%
October	0.4	28,896,000	82%	6,177,000	18%	35,073,000	100%
November	4.8	25,040,000	82%	5,315,000	18%	30,355,000	100%
December	0.4	18,634,000	81%	4,426,000	19%	23,060,000	100%
	55.9	389,102,000	82%	80,008,000	18%	473,536,000	100%
<u>2011</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	15,566,000	78%	4,395,000	22%	19,961,000	100%
February	4.8	19,737,000	80%	5,030,000	20%	24,767,000	100%
March	4.7	25,055,000	80%	6,183,000	20%	31,238,000	100%
April	4.8	26,299,000	81%	6,158,000	19%	32,457,000	100%
May	11.8	37,286,000	81%	8,523,000	19%	45,809,000	100%
June	4.4	38,748,000	83%	7,821,000	17%	46,569,000	100%
July	0.3	47,316,000	84%	9,297,000	16%	56,613,000	100%
August	6.5	44,175,000	84%	8,704,000	16%	52,879,000	100%
September							
October							
November							
December							
	38.0	254,182,000	81%	56,111,000	19%	310,293,000	100%

Monthly Influent Flow
Figure 3A

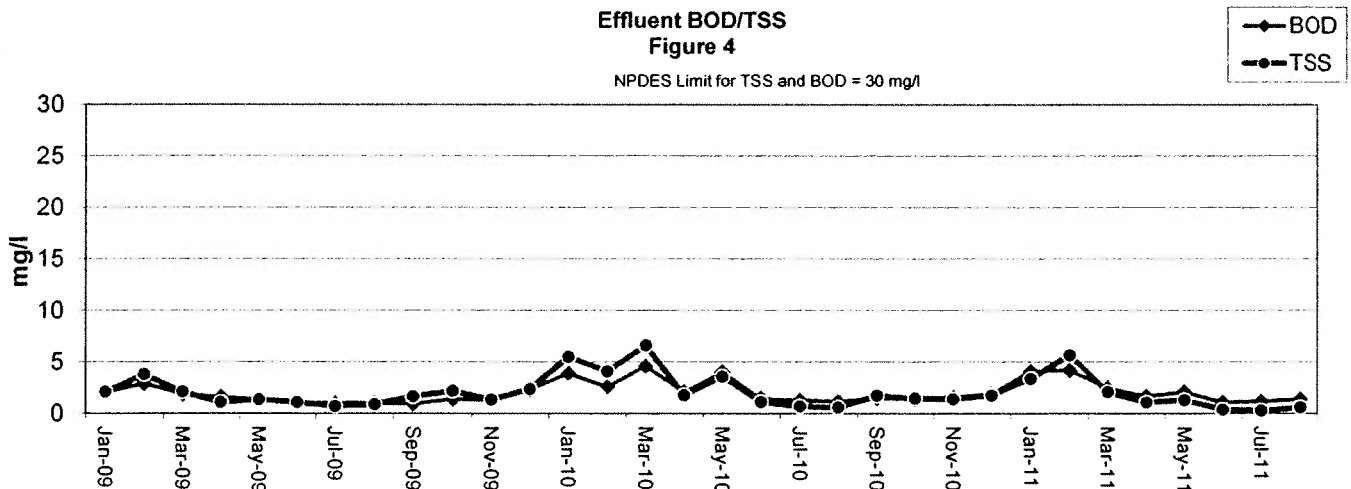


Monthly Influent Flow
Figure 3B

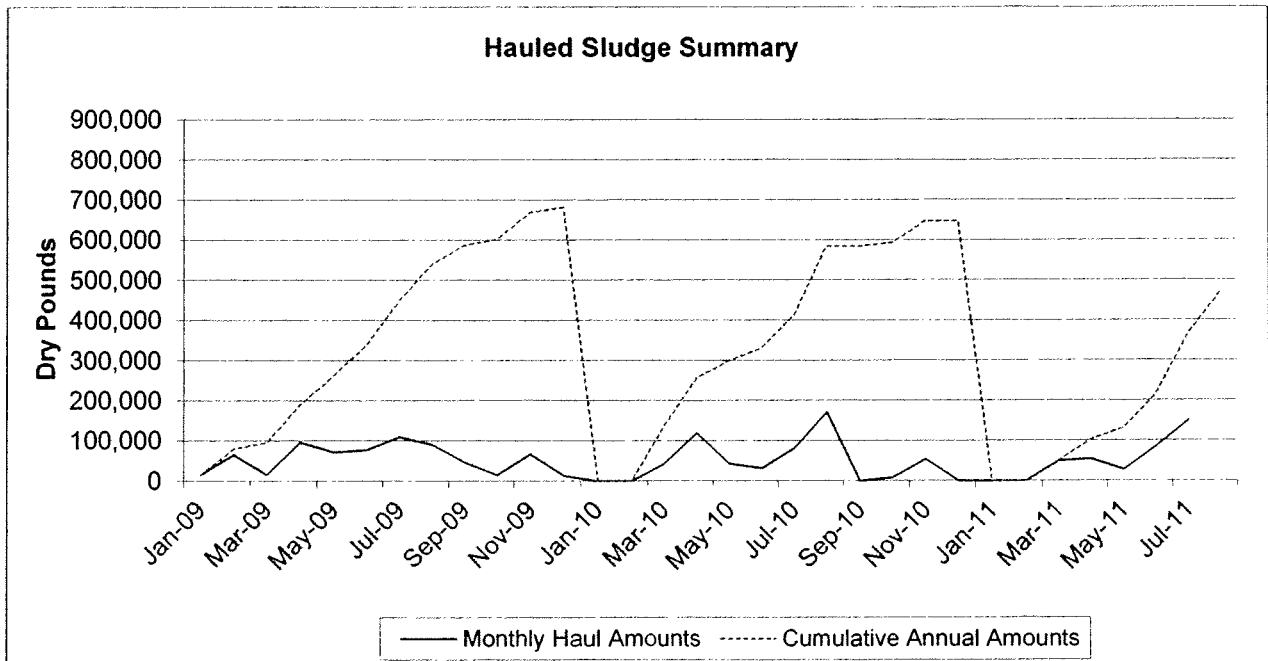
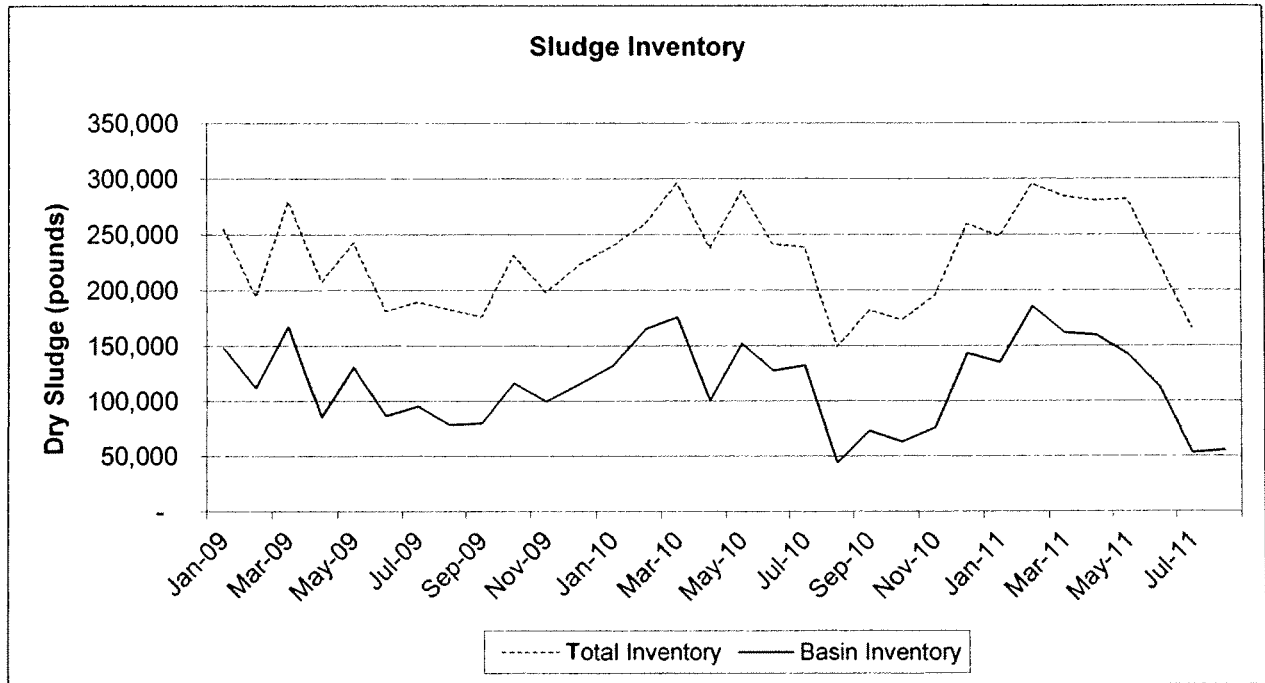


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

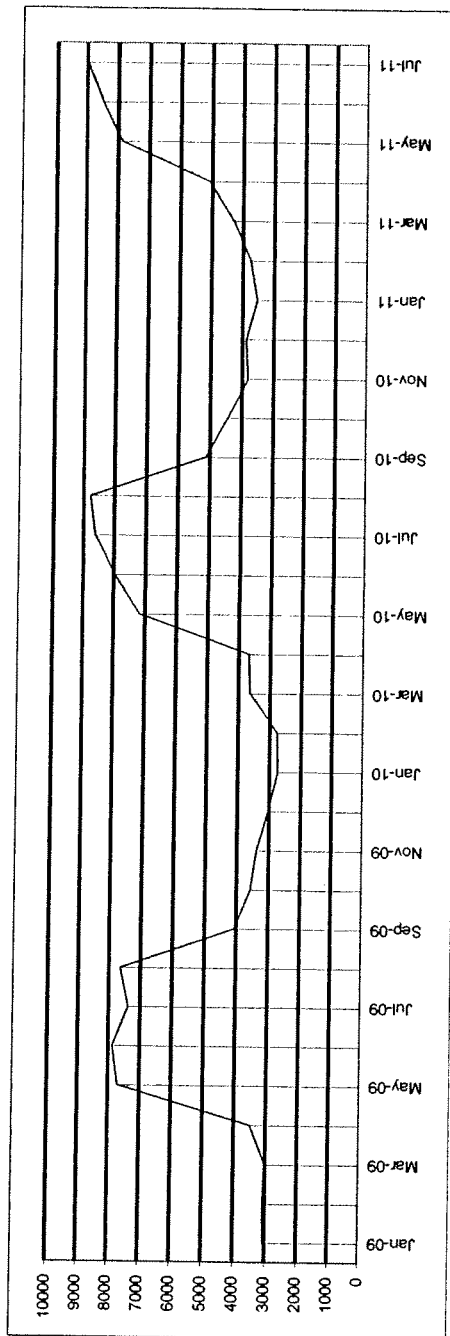


Loads	Gallons	Hauled Sludge		Basin Depths			Blanket Depths			MLSS Inventory			Blanket and MLSS Inventory		MLSS		Accepted Septage Loads	Accepted Septage Gallons				
		# Dry	% Solids	Tank #1	Tank #2	AB #1	AB #2	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory			Total Dry			
Jan-09	12	44,400	14,627	4.0%	6.0	4.0	0.0	450,000	148,247	111,900	0.0	0.0	0.0	3,620	3,617,762	106,809	0.00354	255,066	24	59,000		
Feb-09	53	196,100	65,018	4.0%	5.0	2.5	0.0	337,500	111,900	111,900	0.0	0.0	0.5	0.0	1,840	3,608,881	82,469	0.00274	194,369	24	62,000	
Mar-09	12	44,400	15,738	4.3%	5.5	5.0	0.0	470,500	167,482	111,900	0.0	0.0	0.5	0.0	3,330	3,657,238	112,855	0.0037	280,337	18	45,000	
Apr-09	82	303,400	96,032	3.8%	5.0	1.0	0.0	270,000	85,460	111,900	0.0	0.0	1.0	0.0	4,260	3,696,714	122,089	0.00396	207,549	28	65,000	
May-09	53	196,100	71,251	4.4%	5.5	2.5	0.0	360,000	130,802	111,900	0.0	0.0	1.0	0.0	3,380	3,678,952	111,991	0.00385	242,793	26	64,000	
Jun-09	70	259,000	76,875	3.6%	4.5	2.0	0.0	292,500	86,818	111,900	0.0	0.0	0.5	0.0	3,160	3,735,213	94,545	0.00304	181,364	32	78,500	
Jul-09	70	259,011	110,008	5.1%	5.0	0.0	0.0	225,000	95,563	111,900	0.0	0.0	1.0	0.0	3,040	3,791,474	94,072	0.00298	189,635	50	163,500	
Aug-09	84	310,800	90,568	3.5%	4.5	1.5	0.0	270,000	78,679	111,900	0.0	0.0	1.0	0.0	2,910	3,878,952	104,320	0.0034	182,999	55	145,000	
Sep-09	43	159,100	47,213	3.6%	6.0	0.0	0.0	382,500	116,309	111,900	0.0	0.0	0.5	0.0	3,750	3,617,762	96,098	0.00319	176,221	37	97,500	
Oct-09	13	48,100	14,626	3.6%	6.5	2.0	0.0	315,000	99,829	111,900	0.0	0.0	1.0	0.0	3,040	3,635,524	115,217	0.0038	231,526	43	112,500	
Nov-09	57	210,900	66,838	3.8%	6.0	1.0	0.0	315,000	115,588	111,900	0.0	0.0	1.0	0.0	2,840	3,653,286	98,413	0.00323	198,242	57	148,500	
Dec-09	10	37,000	13,577	4.4%	5.0	2.0	0.0	360,000	132,106	111,900	0.0	0.0	2.0	0.0	3,320	3,714,476	107,186	0.00346	222,774	25	60,000	
Jan-10	0	-	0	4.4%	5.0	3.0	0.0	450,000	165,132	111,900	0.0	0.0	1.0	0.0	3,640	3,635,524	107,637	0.00355	239,743	20	50,500	
Feb-10	0	-	0	4.4%	5.0	5.0	0.0	562,500	175,858	111,900	0.0	0.0	1.5	0.0	3,910	3,653,286	94,757	0.00311	259,889	35	93,000	
Mar-10	37	136,900	42,800	3.7%	7.0	5.5	0.0	450,000	165,132	111,900	0.0	0.0	0.0	0.0	3,890	3,662,904	120,251	0.00392	296,109	13	33,000	
Apr-10	101	373,700	119,328	3.8%	6.0	1.0	0.0	315,000	100,584	111,900	0.0	0.0	1.5	0.0	4,440	3,731,261	137,234	0.00441	237,818	48	124,000	
May-10	31	114,700	43,047	4.5%	6.0	3.0	0.0	405,000	151,997	111,900	0.0	0.0	1.5	0.0	3,930	3,793,428	137,305	0.00434	286,302	48	126,000	
Jun-10	30	111,000	31,506	3.4%	7.0	3.0	0.0	450,000	127,727	111,900	0.0	0.0	1.0	0.0	3,650	3,678,952	113,832	0.00371	241,559	60	157,500	
Jul-10	68	251,600	82,206	3.9%	8.0	1.0	0.0	405,000	132,327	111,900	0.0	0.0	2.0	0.0	3,650	3,696,714	106,366	0.00345	238,692	22	52,000	
Aug-10	141	521,700	171,540	3.9%	3.0	0.0	0.0	135,000	44,389	111,900	0.0	0.0	2.5	0.0	3,250	3,714,476	104,708	0.00338	148,097	96	252,000	
Sep-10	0	-	0	3.9%	4.0	1.5	0.0	247,500	63,302	111,900	0.0	0.0	1.5	0.0	3,300	3,714,476	109,045	0.00352	182,229	18	46,500	
Oct-10	9	33,300	8,517	3.1%	4.5	0.0	0.0	202,500	75,912	111,900	0.0	0.0	2.0	0.0	3,460	3,704,618	110,301	0.00357	173,603	26	65,000	
Nov-10	39	144,300	54,094	4.5%	4.0	0.0	0.0	382,500	143,552	111,900	0.0	0.0	1.5	0.0	4,050	3,736,190	119,654	0.00384	195,565	16	38,000	
Dec-10	0	-	0	4.5%	5.5	2.5	0.0	360,000	135,108	111,900	0.0	0.0	2.0	0.0	3,700	3,671,048	116,037	0.00379	259,589	24	56,500	
Jan-11	0	-	0	4.5%	6.0	5.0	0.0	495,000	185,774	111,900	0.0	0.0	2.0	0.0	3,520	3,653,286	113,495	0.00373	248,803	19	45,000	
Feb-11	0	-	0	4.5%	7.5	4.0	0.0	517,500	161,993	111,900	0.0	0.0	1.0	0.0	3,580	3,679,929	109,872	0.00358	295,646	6	15,000	
Mar-11	43	159,100	49,803	3.8%	7.0	4.0	0.0	495,000	159,625	111,900	0.0	0.0	1.0	0.0	3,940	3,657,238	122,615	0.00402	284,608	25	59,000	
Apr-11	45	166,500	53,692	3.9%	5.5	4.5	0.0	450,000	142,150	111,900	0.0	0.0	3.0	0.0	3,130	3,775,666	120,761	0.00384	280,385	27	70,500	
May-11	24	88,800	28,051	3.8%	3.5	5.0	0.0	382,500	112,713	111,900	0.0	0.0	2.0	0.0	4,960	3,920	3,779,618	139,858	0.00444	282,108	39	101,500
Jun-11	78	288,600	85,043	3.5%	4.0	0.0	0.0	180,000	53,130	111,900	0.0	0.0	3.0	0.0	3,500	3,775,666	111,156	0.00353	223,869	36	96,000	
Jul-11	138	510,600	150,712	3.5%	2.0	0.0	0.0	180,000	53,130	111,900	0.0	0.0	1.5	0.0	3,740	3,714,476	112,917	0.00365	166,047	51	127,500	
Aug-11	91	336,700	103,637	3.7%	2.0	2.0	0.0	180,000	55,511	111,900	0.0	0.0	2.0	0.0	2,840	3,736,190	92,700	0.00298	148,212	47	118,500	

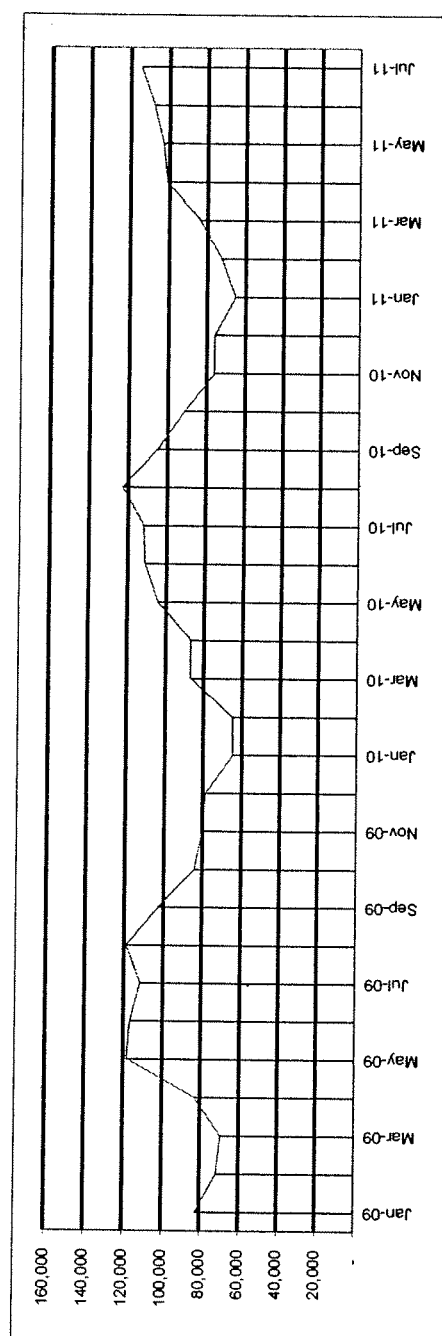


Month	Electric Cost	Kilowatts Used
Jan-09	3068	82,567
Feb-09	3090	71,761
Mar-09	3040	69,590
Apr-09	3502	83,325
May-09	7699	118,303
Jun-09	7873	116,962
Jul-09	7400	111,912
Aug-09	7651	119,019
Sep-09	4089	102,892
Oct-09	3582	84,384
Nov-09	3399	80,485
Dec-09	3061	78,719
Jan-10	2747	64,648
Feb-10	2771	64,964
Mar-10	3640	87,123
Apr-10	3679	87,091
May-10	7182	104,323
Jun-10	7977	111,383
Jul-10	8613	112,010
Aug-10	8770	122,995
Sep-10	5151	105,347
Oct-10	4454	91,462
Nov-10	3815	76,006
Dec-10	3880	76,007
Jan-11	3547	65,206
Feb-11	3757	72,752
Mar-11	4309	84,045
Apr-11	5092	101,440
May-11	7876	103,396
Jun-11	8505	108,021
Jul-11	8983	114,906

Electric Cost



Kilowatts Used





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

NAME OF FACILITY					LOCATION ADDRESS & CITY								COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1					#3 Anderson Road								Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER			OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Aug-11		MO-0103241			#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT					EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.3			26.5	2.050	7.9				5.0	< 20	26.8		
2	7.2			26.3	1.768	8.0				4.2		26.3		
3	7.2			25.7	1.704	8.0				4.6		26.2		
4	7.1			24.9	1.943	7.9			0.18	4.6		25.4		
5	7.4	202	170	25.2	2.207	7.9	1.3	0.6		4.4		25.4	99.4	99.6
6	7.3			25.9	2.218	8.0				4.7		25.7		
7	7.3			25.9	2.398	8.0				4.0		26.1		
8	7.3			24.9	2.198	8.0				4.1	<20	25		
9	7.3			24.8	1.961	8.0				4.1		25.2		
10	7.3			24.1	1.690	8.0				4.2		23.9		
11	7.3			23.9	1.727	8.0			0.11	4.7		24.5		
12	7.3	228	174	24.5	1.864	8.0	1.2	0.4		4.4		24.1	99.5	99.8
13	7.5			24.2	2.164	7.9				4.7		24		
14	7.5			24.2	2.145	7.9				5.0		23.7		
15	7.2			23.9	1.765	7.9				4.7	<20	23.4		
16	7.2			23.5	1.602	7.9				4.4		22.6		
17	7.2			23.7	2.271	8.0			0.08	5.1		23.2		
18	7.3	190	182	23.7	1.684	8.0	2.0	0.8		4.6		23.6	98.9	99.6
19	7.3			23.7	2.122	7.8				4.5		24.2		
20	7.1			25.1	2.484	7.8				4.2		25.3		
21	7.4			23.7	1.906	7.9				4.4		23.7		
22	7.4			23.1	1.865	7.9				4.7	<20	23.9		
23	7.5			23.5	1.741	7.9				4.7		23.6		
24	7.3			23.6	1.377	8.0				4.4		24.4		
25	7.4			23.6	1.355	8.0			0.08	5.2		24.4		
26	7.2	206	158	22.9	1.511	7.9	1.2	0.4		5.6		23.2	99.4	99.7
27	7.5			22.1	1.571	7.9				6.0		22.4		
28	7.2			22.3	1.918	8.0				5.5		23		
29	7.2			23.3	1.794	7.9				4.9	< 20	23.4		
30	7.3			23.3	1.390	8.0				5.4		22.8		
31	7.2			23	1.311	8.0				6.5		22.7		
Total					57.704									
Avg		207	171	24	1.861		1.4	0.6	0.1	4.8	< 20	24.3	99.3	99.7
Min	7.1	190	158	22	1.311	7.8	1.2	0.4	0.1	4.0	< 20	22.4	98.9	99.6
Max	7.5	228	182	27	2.484	8.0	2.0	0.8	0.2	6.5	< 20	26.8	99.5	99.8

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16	< 5.0		
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			
Avg	< 5.0	0.00	0.00
Min	< 5.0	0.00	0.00
Max	< 5.0	0.00	0.00

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

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR ACTIVATED SLUDGE PROCESSES												
DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside	*RAIN Inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1	7,252	1.0	3,550	360	26.6	1	4,280	470	26.2	82	0	7:30
2		1.0	4,400	470	26.6	1	3,890	380	25.9	84	0	7:30
3		1.3	4,010	390	25.9	2.6	3,400	330	25.9	79	0	7:30
4		2.2	3,580	360	25	2.3	3,990	410	25.1	75	0.3	7:30
5		2.0	3,370	310	25.1	1.1	3,290	340	25.1	76	0.25	7:30
6		1.0	3,190	350	25.6	1.1	3,530	330	25.6	76	0.4	7:30
7		0.9	3,980	390	26.1	0.9	3,020	300	25.8	77	0.1	7:30
8		1.0	3,070	350	24.8	0.9	3,460	390	24.9	72	0.2	7:30
9		1.3	3,140	300	24.8	0.9	3,990	450	24.7	70	0.25	7:30
10		3.3	4,100	310	23.5	2.1	3,820	450	23.4	70	0	7:30
11	8,640	1.4	2,860	270	24	2.5	3,570	400	24	67	0	7:30
12	9,875	1.4	3,090	310	23.6	0.9	3,860	460	23.6	68	0	7:30
13		2.4	3,080	310	23.9	2.3	3,190	370	23.9	73	0.25	7:30
14		1.9	4,010	470	23.5	2.8	2,860	280	23.4	66	0	7:30
15	10,276	1.1	3,140	300	23	2.2	3,900	400	23	65	0	7:30
16		2.1	3,250	320	22.4	2.2	3,670	410	22.6	67	0.3	7:30
17		3.1	3,220	310	23	3	3,280	310	23	71	1.3	7:30
18		0.7	3,920	370	23.8	1.1	2,730	250	23.8	70	0	7:30
19		1.0	3,420	310	24.4	1.5	2,450	220	24.3	70	1.5	7:30
20		0.9	2,860	250	25.3	1.1	2,490	230	25.2	75	1.5	7:30
21		2.4	3,180	290	23.6	2.2	3,010	270	23.6	69	0	7:30
22		2.0	2,730	250	23.3	1.8	3,010	290	23.5	70	0	7:30
23		2.7	2,930	240	23.4	2.3	3,050	300	23.5	71	0	7:30
24		2.7	3,710	300	24.3	3.5	2,700	210	24.3	77	0	7:30
25	8,023	2.5	2,960	250	24	2.6	2,750	240	24.1	67	0	7:30
26	9,134	3.4	2,980	250	22.6	3.9	2,990	270	22.7	64	0	7:30
27	13,269	3.6	2,860	240	21.8	3.6	2,760	270	21.9	66	0	7:30
28	10,862	3.3	2,810	240	22.6	3.6	3,240	300	22.7	63	0	7:30
29	9,566	2.8	2,830	250	22.7	1.3	3,420	320	22.8	67	0.1	7:30
30	6,665	3.3	2,640	230	22.6	3.5	3,480	330	22.6	67	0	7:30
31	10,276	2.9	2,840	250	23.7	3.9	3,110	280	23.5	71	0	7:30

COMMENTS: We had an unscheduled power outage on the 20th, due to a severe storm passing thru in the early morning hours causing the power to go out for approximately 7 hours. We took TSS samples and E.coli samples during the outage and the TSS results were 2.4 mg/L and the E.coli was TNTC /100mls. This should be considered a wet weather bypass since the storm is what caused the outage and was totally out of our control. We also had a scheduled power outage on the 23rd for 2 hours, due to Ameren Missouri moving some lines up on the new Eagle Landing development. We contacted Troy Potteiger and received preapproval from Tina White to put Chlorine tabs in our launders of our Clarifiers for disinfection. We ran chlorine residuals hourly throughout the day and sampled for E.coli before, during and after the outage and also took a TSS during and the E.coli before, was 4.8 / 100mls, during was 0.0 / 100mls and after 1 / 100mls and the TSS during was 0.8 mg/L.

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
Frank Hendricks	<i>Frank Hendricks</i>	(573)365-0455	9/7/2011
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	<i>Gary Hutchcraft</i>	(573)365-0455	9/7/2011

*Required Daily (Monday - Friday)

**Required 1/week

Use following abbreviations R-rain, S-snow, O-overcast, C-clear, PC-partly cloudy
Prepared by GH, FH, CW

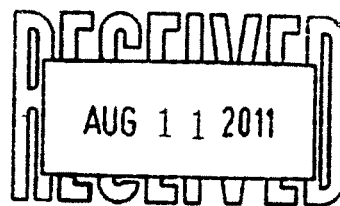
Environmental Analysis South, Inc

4000 East Jackson Blvd. - Jackson MO 63755 - 573-204-8817 - Fax 573-204-8818

Lake Ozark Regional WWTP
Alliance Lake of the Ozarks
P. O. Box 1985
Lake Ozarks, MO 65049

Report Number: 113900

Report of Analysis



Reference:

The analysis of biosolids from wastewater treatment facilities is conducted in accordance with 40 CFR Part 503.

Log Number:

1312923

Sample Description:

Quarterly Sludge

Sample Date:

7/5/2011

Sample Received Date:

7/6/2011

Coli S

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Fecal Coliform in Sludge	15100	CFU/g	SM-9222 D-97		07/06/11	102
Total Solids Average	3.62	% w/w	SM-2540 B-97		07/06/11	102

Nutrients

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Phosphorus	21400	mg/Kg	SM-20 4500-P E-99		07/11/11	133

PAN Group

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Ammonia as Nitrogen	4,630	mg/Kg	Lachat-10-107-06-1-K		07/20/11	102
Kjeldahl Nitrogen	39,300	mg/Kg	Lachat-10-107-06-2-K		07/22/11	102
Nitrate as Nitrogen	< 57	mg/Kg	EPA-300.0 Rev. 2		07/11/11	133
Nitrite as Nitrogen	< 57	mg/Kg	EPA-300.0 Rev. 2		07/11/11	133
Organic Nitrogen	34,700	mg/Kg	Lachat-10-107-06-2-K		07/22/11	102
PAN - Subsurface Application	11570	ppm	Calculation		08/03/11	127
PAN - Surface Application	10181	ppm	Calculation		08/03/11	127

Preparation Methods

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Anlons IC Sample Preparation	1	Prep	SM-4110B-00		07/06/11	133
Metals ICP Sample Digestion	1	Prep	EPA-200.7 Rev. 4.4	PDC	07/22/11	
Total Metals Flame-AA Digestion	1	Prep	EPA-200.2		07/12/11	133

Environmental Analysis South, Inc

4000 East Jackson Blvd. - Jackson MO 63755 - 573-204-8817 - Fax 573-204-8818

Lake Ozark Regional WWTP
Alliance Lake of the Ozarks
P. O. Box 1985
Lake Ozarks, MO 65049

Report Number: 113900

Report of Analysis

Log Number: 1312923
Sample Description: Quarterly Sludge

Sample Date: 7/5/2011
Sample Received Date: 7/6/2011

Solids

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Total Solids	3.51	% w/w	SM-2540 B-97		07/08/11	102

Total (Total Recoverable) Trace Metals

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Arsenic by ICP	< 3.0	mg/Kg	EPA-200.7 Rev. 4.4	PDC	07/22/11	
Cadmium	0.305	mg/Kg	SM-3111 B-99		07/20/11	133
Chromium	25.9	mg/Kg	SM-3111 B-99		07/20/11	133
Copper	479	mg/Kg	SM-3111 B-99		07/20/11	133
Lead by ICP	27	mg/Kg	EPA-200.7 Rev. 4.4	PDC	07/22/11	
Mercury by Cold-Vapor Technique	0.17	mg/Kg	SM-3112 B-99		07/27/11	133
Molybdenum by ICP	6.7	mg/Kg	EPA-200.7 Rev. 4.4	PDC	07/22/11	
Nickel	17.8	mg/Kg	SM-3111 B-99		07/20/11	133
Potassium	2010	mg/Kg	SM-3111 B-99		07/19/11	133
Selenium by ICP	< 2.0	mg/Kg	EPA-200.7 Rev. 4.4	PDC	07/22/11	
Zinc	981	mg/Kg	SM-3111 B-99		07/20/11	133

Respectfully submitted,



David F. Warren

Comments:

PDC This parameter or group of analytes was analyzed by the subcontracting lab - PDC Lab
Saint Louis, MO

CHAIN OF CUSTODY RECORD

Client: _____

Address: P.O. Box 1985 / #3 ANDERSON RD.

City/State/Zip: LAKE OZARK, MO 65049

PO Number: N/A ☐ Rush Requested (Due Date: _____)

Sampler's Signature:

Date: 7/5/11 Time: 10:35 ☐ See Table

Additional Comments:

[illegible]

FECAL COLIFORM IN SLUDGE

Standard Methods 18th edition method 9222D/SW-846 method 9132

Log #

1312923

Date:

7/6/2011

Analyst:

SCS 133

Total Solid calculation

Sample	Sample Size	Tare Weight	Tare Wt. + Res.	Residue Wt.	Final Result
Replicate	(grams)	(grams)	(grams)	(grams)	(%w/w)
A	9.9472	0.9968	1.3594	0.3626	3.65
B	12.6264	1.0004	1.4583	0.4579	3.63
C	12.0120	0.9709	1.4043	0.4334	3.61
D	10.6117	0.9988	1.3806	0.3818	3.6
E	9.5707	0.9970	1.3483	0.3513	3.67
F	10.6532	1.0049	1.3900	0.3851	3.61
G	11.9015	0.9647	1.3891	0.4244	3.57
				Average Total Solid	3.62

Colony Counts

Date:

7/6/2011

Analyst:

SCS 133

Sample	Wt. Of Sample	Sample Size	Colony Count	Final Count
Replicate	(grams)	(mls - 0.1, 1.0, 10)	used	#/gram (dry)
A	0.2767	1	<1	<9900
B	0.4241	1	1	6,500
C	0.4527	1	4	24,500
D	0.4005	1	3	20,800
E	0.3046	1	2	17,900
F	0.3253	1	3	25,500
G	0.3437	1	3	24,400
Geometric Average				15,100

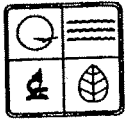
Approved by:



Environmental Analysis South, Inc.
Clarification Coagulant Sludges
Sludge Analysis

8/3/2011

Submitted by: Alliance Lake Ozarks					
Log Number: 1312923					
pH					
Coliform					
Parameter	Wet %	Wet ppm	Dry %	Dry ppm	lbs/dry tons
Moisture			96.49		
Solids			3.51		
Volatile Solids					
Ash					
Nitrogen (TKN)	0.138%	1380.483	3.933%	39330.000	78.660
Nitrate N	0.000%	0.000	0.000%	ND	0.000
Nitrite N	0.000%	0.000	0.000%	ND	0.000
Ammonia N	0.016%	162.513	0.463%	4630.000	9.260
Organic N	0.122%	1217.970	3.470%	34700.000	69.400
PAN Surface Application	0.036%	357.353	1.018%	10181.000	20.362
PAN Subsurface Application	0.041%	406.107	1.157%	11570.000	23.140
Potassium (as K)	0.007%	70.551	0.201%	2010.000	4.020
Phosphorus (as P)	0.075%	751.140	2.140%	21400.000	42.800
Arsenic (as As)	ND	ND	ND	ND	ND
Cadmium (as Cd)	0.000%	0.011	0.000%	0.305	0.001
Chromium (as Cr)	0.000%	0.909	0.003%	25.900	0.052
Copper (as Cu)	0.002%	16.813	0.048%	479.000	0.958
Molybdenum (as Mo)	0.000%	0.235	0.001%	6.700	0.013
Nickel (as Ni)	0.000%	0.625	0.002%	17.800	0.036
Lead (as Pb)	0.000%	0.948	0.003%	27.000	0.054
Selenium (as Se)	ND	ND	ND	ND	ND
Zinc (as Zn)	0.003%	34.433	0.098%	981.000	1.962
Mercury (as Hg)	0.000%	0.006	0.000%	0.170	0.000
code ND = none detected					
code NT = not tested					



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

SELF-REPORTING FOR SANITARY SEWER OVERFLOWS OR WASTEWATER TREATMENT
FACILITY BYPASSES

Mailed to MONROE
8/22/11

Notice: Under the Missouri Secretary of State's Code of State Regulations 10 CSR 20-7.015(9)(E), Effluent Regulations, Standard Conditions, Bypassing, and in accordance with reporting requirements listed in your Missouri State Operating Permit, or MSOP, all permittees shall provide the following notice(s) if an unscheduled Sanitary Sewer Overflow, or SSO, or Wastewater Treatment Facility Bypass occurs:

NOTIFICATION INFORMATION

PERMITTEE (MUNICIPALITY OR FACILITY NAME) LAKE OF THE OZARKS REGIONAL WWTP	PERMIT NUMBER MO-0103241	DATE 8/22/11	TIME PROX. 8:00 ☒ a.m. ☐ p.m.
COUNTY MILLER	AUTHORIZED REPRESENTATIVE REPORTING GARY HUTCHCRAFT	TELEPHONE NUMBER WITH AREA CODE 573-365-0455	DNR OFFICE AND PERSON CONTACTED TROY POTTEIGER

SANITARY SEWER OVERFLOW OR WASTEWATER TREATMENT FACILITY BYPASS DETAILS

☐ Overflow or ☒ Bypass ☐ Ongoing or ☐ Contained			
Date discovered 8/20/11	Time (to nearest 15 minutes) 5:30 ☒ a.m. ☐ p.m.	End Date 8/20/11	Time (to nearest 15 minutes) 12:30 ☐ a.m. ☒ p.m.
Estimated volume of wastewater discharged (gallons) 555,917		Estimated rate of discharge in gallons per minute 386 gpm	

Location of the Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (complete a separate form for each discharge location and complete all that apply)

- Street Location:
- Manhole #:
- Directions to the site from nearest highway:
- Location defined by GPS:
- Physical Address: #3 ANDERSON RD. LAKE OZARK, MO 65049
- Township/Range: NE 1/4, SEC. 33, T40N, R15W, MILLER COUNTY

Circumstances Causing Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (check all that apply):

- | | | |
|--|--|---|
| ☒ Rain | ☐ Rain or Snow Melt | ☐ Vandalism |
| ☒ Power Outage | ☐ Plugged Sewer | ☐ Broken Sewer |
| ☐ Equipment Failure | ☐ Widespread Flooding | ☒ Other (describe): SEVERE STORM
w/SEVERE WIND+LIGHTNING |
- See "Narrative Description" on back page to add additional details.

Type of Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (check all that apply):

- | | | |
|--|---|--|
| ☐ Pipe Break | ☐ Head Works | ☐ Effluent Weir/Flume |
| ☐ Lagoon/Basin Overflow | ☐ Drying Beds | ☐ CSO Outfall (Dry Weather) |
| ☐ Digester/ Solids handling | ☐ Lift Station | ☒ Aeration/Biological Treatment |
| ☐ Manhole | ☐ Clarifier/Filter/Batch Reactor | ☐ Construction SSO |
| | | ☒ Other (describe): DISINFECTION |

Strength of Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass: ☐ Raw ☒ Partially Treated ☐ Diluted

WATERCOURSE INFORMATION

Discharge Course

- | | |
|--|--|
| ☐ Runs on ground and absorbs into the soil | ☒ Discharge entering losing stream or sinkhole |
| ☐ Ditch. Name of surface water it drains to: | ☐ Nearby public drinking water intake |
| ☐ Storm sewer. Name of surface water it drains to: | ☐ Other, describe: |
| ☐ Distance to stream if not yet reached (feet): ft. | Name of public drinking water intake: |
| ☐ Surface water direct discharge (Name of stream): | Distance to public drinking water intake (feet): ft. |

Impacts

- | | |
|--|--|
| Length of impact downstream: NONE | ☐ Nearby beach or other public area |
| ☐ Fish kill or other impacted species N/A | Name of beach or public area: N/A |
| | Distance to a beach or public area (feet): ft. |

RESPONSE/CLEANUP

Were samples taken? ☒ Yes ☐ No

Type of Samples Taken: ☒ BOD ☒ TSS ☒ E. Coli ☐ Fecal Coliform ☐ Ammonia
☒ Dissolved Oxygen ☐ None ☐ Other (describe):

Attach copies of any analytical results.

Any corrective action taken? ☐ Yes ☒ No NO POWER
Clean up activity: ☐ Flushing ☐ Removing ☐ Chemical Application ☐ Damming ☐ Other (describe):
See "Narrative Description" on back page to add additional details.

Clean up performed by

NARRATIVE DESCRIPTION

Provide a narrative description to further explain why the Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding caused by high river, stream or lake water levels (not just localized high water in the street).

WE HAD A SEVERE STORM W/RAIN, WIND & LIGHTNING PASS THROUGH APROX. 5AM CAUSING THE POWER OUTAGE APROX. 5:30AM. THE ON DUTY EMPLOYEE CAME IN & FOUND WE ONLY HAD 2 PHASES OF POWER @ Full Power, 240 VOLT & 1 PHASE @ 5100CS. HE CONTACTED AMEREN MISSOURI @ APROX. 6AM, TELLING THEM OF THE PROBLEM. UPON FURTHER INSPECTION HE FOUND THAT MOST OF THE 110 VOLT OUTLETS WERE OK, BUT A FEW ONLY HAD 51 VOLTS LIKE THE 3RD LEG OF THE 3 PHASE POWER. WE HAD 110 POWER IN ALL OUR BUILDINGS, BUT NO 480 VOLT, WHICH IS WHAT IS NEEDED FOR OUR AERATORS, CLARIFIERS & UV SYSTEM.

IMPACT ON RECEIVING STREAM IS BELIEVED TO BE MINIMAL DUE TO THE 1.5 INCHES OF RAIN RECEIVED ON 8/19 & THE 1.5 INCH RAIN ON THE DAY OF THE POWER OUTAGE, 8/20/11.

WET WEATHER DATA (IF APPLICABLE)**DATE(S) AND DURATION(S) OF RAINFALL**

Start date 8/20/11	Time (to nearest 15 minutes) 5:00 ☒ a.m. ☐ p.m.	End date 8/20/11	Time (to nearest 15 minutes) 8:00 ☒ a.m. ☐ p.m.
Amount of rainfall (nearest rain gauge to 0.1 inch accuracy) 1.5 INCHES		Amount of snow melt (estimated inches melted)	
Time period of rainfall: 3 Hours Minutes			
Contributing soil conditions (saturated, frozen, soil type)			

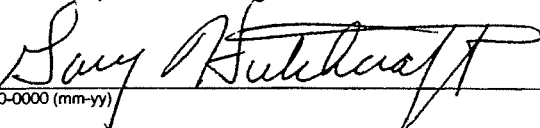
ACTIONS TO CORRECT THIS OCCURRENCE AND PREVENT FUTURE OVERFLOWS OR BYPASSES

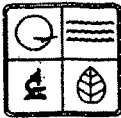
Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they are subject to enforcement action.

CALLED AMEREN MISSOURI HOURLY TO FIND OUT STATUS OF WHEN POWER WOULD BE RESTORED.

AMEREN MISSOURI # CALLED 800-552-7583 & LOCAL CONTACT STEVE DIXON 573-286-9840

REPORT COMPLETED BY

Authorized representative name (Please type or print) GARY HUTCHCRAFT	Title LOCAL MANAGER
Authorized representative signature 	Date 8/22/11



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

SELF-REPORTING FOR SANITARY SEWER OVERFLOWS OR WASTEWATER TREATMENT
FACILITY BYPASSES

Mailed to MDNR on
8/25/11

Notice: Under the Missouri Secretary of State's Code of State Regulations 10 CSR 20-7.015(9)(E), Effluent Regulations, Standard Conditions, Bypassing, and in accordance with reporting requirements listed in your Missouri State Operating Permit, or MSOP, all permittees shall provide the following notice(s) if an unscheduled Sanitary Sewer Overflow, or SSO, or Wastewater Treatment Facility Bypass occurs:

THIS WAS A SCHEDULED POWER OUTAGE

NOTIFICATION INFORMATION

PERMITTEE (MUNICIPALITY OR FACILITY NAME)	PERMIT NUMBER	DATE	TIME
LAKE OF THE OZARKS REGIONAL WWTTP	MO-013241	8/25/11	8:00 ☒ a.m. ☐ p.m.
COUNTY	AUTHORIZED REPRESENTATIVE REPORTING	TELEPHONE NUMBER WITH AREA CODE	DNR OFFICE AND PERSON CONTACTED
MILLER	GARY HUTCHCRAFT	573-365-0455	TROY POTTEIGER on 8/23/11

SANITARY SEWER OVERFLOW OR WASTEWATER TREATMENT FACILITY BYPASS DETAILS

☐ Overflow or ☒ Bypass ☐ Ongoing or ☐ Contained

Date discovered	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
8/23/11	4:10 ☐ a.m. ☒ p.m.	8/23/11	6:10 ☐ a.m. ☒ p.m.

Estimated volume of wastewater discharged (gallons)	Estimated rate of discharge in gallons per minute
114,750	80 gpm

Location of the Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (complete a separate form for each discharge location and complete all that apply)

- Street Location:
- Manhole #:
- Directions to the site from nearest highway:
- Location defined by GPS:
- Physical Address: #3 ANDERSON RD. LAKE OZARK
- Township/Range: NE 1/4, NW 1/4, SEC 33, T40N, R15W, MILLER COUNTY

Circumstances Causing Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (check all that apply):

- | | | |
|--|--|--|
| ☐ Rain | ☐ Rain or Snow Melt | ☐ Vandalism |
| ☒ Power Outage | ☐ Plugged Sewer | ☐ Broken Sewer |
| ☐ Equipment Failure | ☐ Widespread Flooding | ☐ Other (describe): |

See "Narrative Description" on back page to add additional details.

Type of Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass (check all that apply):

- | | | |
|--|---|---|
| ☐ Pipe Break | ☐ Head Works | ☐ Effluent Weir/Flume |
| ☐ Lagoon/Basin Overflow | ☐ Drying Beds | ☐ CSO Outfall (Dry Weather) |
| ☐ Digester/ Solids handling | ☐ Lift Station | ☒ Aeration/Biological Treatment |
| ☐ Manhole | ☐ Clarifier/Filter/Batch Reactor | ☐ Construction SSO |
| | | ☐ Other (describe): |

Strength of Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass: ☐ Raw ☒ Partially Treated ☐ Diluted

WATERCOURSE INFORMATION

Discharge Course

- | | |
|--|---|
| ☐ Runs on ground and absorbs into the soil | ☒ Discharge entering losing stream or sinkhole <i>BOWLING HOLLOW CREEK TO OSAGE RIVER</i> |
| ☐ Ditch. Name of surface water it drains to: | ☐ Nearby public drinking water intake |
| ☐ Storm sewer. Name of surface water it drains to: | ☐ Other, describe: |
| ☐ Distance to stream if not yet reached (feet): ft. | Name of public drinking water intake: |
| ☐ Surface water direct discharge (Name of stream): | Distance to public drinking water intake (feet): ft. |

Impacts

- | | |
|--|--|
| Length of impact downstream: | ☐ Nearby beach or other public area |
| ☐ Fish kill or other impacted species <i>NONE</i> | Name of beach or public area: |
| | Distance to a beach or public area (feet): ft. |

RESPONSE/CLEANUP

Were samples taken? ☒ Yes ☐ No

Type of Samples Taken: ☐ BOD ☒ TSS ☒ E. Coli ☐ Fecal Coliform ☐ Ammonia
☒ Dissolved Oxygen ☐ None ☐ Other (describe):

Attach copies of any analytical results. *TOOK CL2 RES. HOURLY STARTING @ 8 AM 8/23 UNTIL 6:10 PM WHEN POWER WAS RESTORED*

Any corrective action taken? ☒ Yes ☐ No

Clean up activity: ☐ Flushing ☐ Removing ☒ Chemical Application ☐ Damming ☐ Other (describe):

See "Narrative Description" on back page to add additional details. *CHLORINE TABS IN LAUNDERS OF CLARIFIERS*

Clean up performed by *FOR DISINFECTION*

NARRATIVE DESCRIPTION

Provide a narrative description to further explain why the Sanitary Sewer Overflow or Wastewater Treatment Facility Bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding caused by high river, stream or lake water levels (not just localized high water in the street).

I CONTACTED TROY POTTEIGER ON 8/22/11 CONCERNING THE SCHEDULED POWER OUTAGE THAT AMEREN MISSOURI HAD CONTACTED ME ABOUT AND EMAILED TINA WHITE CONCERNING THE PROPOSED PLAN OF PUTTING CHLORINE TABS IN OUR LAUNDERS OF OUR CLARIFIERS PRIOR TO THE EVENT & DURING, TO GET OUR CHLORINE RESIDUAL UP TO MEET THE NEEDED CONTACT TIME TO DISINFECT PROPERLY. TINA EMAILED ME BACK WITH THE APPROVAL TO GO AHEAD WITH WHAT WE PROPOSED AND IT WORKED GREAT. WE LOST POWER TO ALL EQUIPMENT FOR 2 HOURS AND WAS STILL ABLE TO HAVE A TSS AT OUR OUTFALL OF 0.8 mg/L AND A ϕ /100ml COUNT OF E. COLI. IMPACT ON RECEIVING STREAM BELIEVED TO BE MINIMAL DUE TO PRIOR PLANNING.

WET WEATHER DATA (IF APPLICABLE)**DATE(S) AND DURATION(S) OF RAINFALL**

Start date	Time (to nearest 15 minutes) ☐ a.m. ☐ p.m.	End date	Time (to nearest 15 minutes) ☐ a.m. ☐ p.m.
Amount of rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of snow melt (estimated inches melted)	
Time period of rainfall: Hours Minutes			
Contributing soil conditions (saturated, frozen, soil type)			

ACTIONS TO CORRECT THIS OCCURRENCE AND PREVENT FUTURE OVERFLOWS OR BYPASSES

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they are subject to enforcement action.

WE PUT CHLORINE TABS IN THE LAUNDERS OF OUR 3 CLARIFIERS FOR DISINFECTION.

REPORT COMPLETED BY

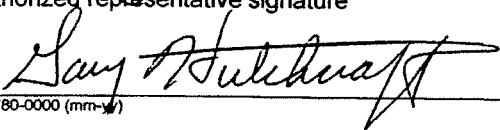
Authorized representative name (Please type or print)

GARY HUTCHCRAFT

Title

LOCAL MANAGER

Authorized representative signature



Date

8/25/11

Gary Hutchcraft

From: White, Tina <tina.white@dnr.mo.gov>
Sent: Friday, September 09, 2011 10:06 AM
To: 'Gary Hutchcraft'
Cc: Hess, Kevin; Perkins, Gregory
Subject: RE: MO-013241

Gary, I've talked with my supervisor Kevin Hess, about this and we would like future events to be called in and reviewed prior to approval for the addition of Chlorine tabs. In the interim, we would like you to begin immediately considering the following regulatory requirement from chapter 8 or our regulations:

(8) Essential Facilities.

(A) Emergency Power Facilities. All plants shall be provided with an alternate source of electric power to allow continuity of operation during power failures, except as noted in this subsection. Methods of providing alternates include the connection of at least two (2) independent public utility sources, such as substations; a power line from each substation is recommended and will be required unless, documentation is received and approved by the agency verifying that duplicate line is not necessary to minimize water quality violations; portable or encompass internal combustion engine equipment which will generate electrical or mechanical energy; and portable pumping equipment when only emergency pumping is required.

1. Standby generating capacity normally is not required for aeration equipment used in the activated sludge process. In cases where a history of long-term (four (4) hours or more) power outages have occurred, auxiliary power for minimum aeration of the activated sludge will be required. Full power generating capacity may be required by the agency on certain stream segments.

2. Continuous disinfection, where required, shall be provided during all power outages.

Additionally, wet weather bypasses are meant to encompass I&I issues and not power outages. Let me know if you have any further questions.

Sincerely,

Tina White

From: Gary Hutchcraft [mailto:ghutchcraft@alliancewater.com]
Sent: Thursday, September 08, 2011 8:38 AM
To: White, Tina
Subject: FW: MO-013241

- Just checking to make sure you received this, hadn't heard anything back yet?

Thanks,

Gary Hutchcraft

From: Gary Hutchcraft [mailto:ghutchcraft@alliancewater.com]

Sent: Monday, August 29, 2011 10:32 AM

To: tina.white@dnr.mo.gov

Cc: Gary Anger (ganger@alliancewater.com)

Subject: MO-013241

Good morning Tina, I just wanted to check to see, when and if we ever have another wet weather bypass or scheduled power outage, could we get pre-approval to put Chlorine tabs in our launders of our Clarifiers to keep another situation from happening like we had happen on the 20th. Also according to what I have been reading in the Missouri Clean Water Commission Regulation 10 CSR 20-7.015(9)(E), the event on the 20th should be considered a Wet Weather Bypass. It states that a Wet Weather Bypass is a discharge of wastewater at the treatment plant, that is the direct result of a storm event and that Public Owned Treatment Works (POTWs) that have a wet weather bypass, need only report the bypass on their Discharge Monitoring Reports (DMRs). We sure would appreciate your consideration on this matter and are looking forward to hearing back from you concerning this.

Thanks,

Gary Hutchcraft, Local Manager

Alliance Water Resources, Inc.

Lake of the Ozarks Regional WWTP

MO-013241



RECEIVED
9-13-11

Jeremiah W. (Jay) Nixon, Governor

Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

dnr.mo.gov

September 8, 2011

LETTER OF WARNING

Cities of Lake Ozark and Osage Beach
P. O. Box 370
Lake Ozark, MO 65049

Dear Permittee:

On August 22, 2011, Department staff received a telephone call notifying us of a sewage bypass from the treatment facility's outfall. The caller reported that due to a power outage on August 20, 2011, two of the plant's three phases were off line. This caused aerators and the system's Ultraviolet (UV) disinfection system to go off line. Approximately 595,000 gallons were discharged during the time the system was off line. Please note, this Letter of Warning is official notification of violations of the Missouri's Clean Water Law that occurred as a result of the bypass and the protracted reporting timeframe.

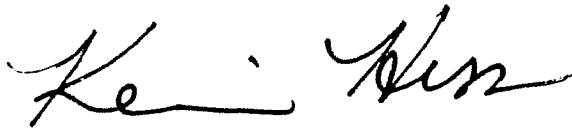
An unpermitted bypass of untreated sewage from the Lake of the Ozarks Regional Wastewater Treatment Plant #1 into Bowling Hollow Creek, a tributary to the Osage River, waters of the state, is a violation of Sections 644.051.1(2), 644.076.1, and 78.215.1, RSMo and Missouri Clean Water Commission Regulations 10 CSR 20-6.010(1) (A) and (5) (A). The Permittee failed to perform wastewater testing (E.coli hold times were exceeded) using an approved method according to the most current edition of Standard Methods for the Examination of Water and Wastewater or other methods approved by the Department. This is a violation of Missouri Clean Water Commission Regulation 10 CSR 20-9.010(6) and Missouri Clean Water Law Section 644.076.1 RSMo. The Permittee failed to provide oral and/or written notification to the Department within 24 hours for all bypasses as stated in the Standard Conditions in the MSOP. This is a violation of Missouri Clean Water Law Section 644.076.1, RSMo and Section 2 B of the MSOP Standard Conditions Part I. The bypass occurred on August 20, 2011, however it was not reported until August 22, 2011.

Lake of the Ozark's Regional Treatment Plant #1
September 8, 2011
Page2

You are requested to submit a written response within ten (10) calendar days of the date of this report which addresses actions you have taken, or intend to take, to correct any of the compliance or operation and maintenance issues described. If you have any questions, please contact Ms. Tina White in the Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri 65807-5912 or by calling 417-891-4300.

Sincerely,

SOUTHWEST REGIONAL OFFICE

A handwritten signature in black ink, appearing to read "Kevin Hess", with a stylized flourish at the end.

Kevin Hess, Chief
Water Pollution Section

KDH/tws

