

**OSAGE BEACH/LAKE OZARK  
JOINT SEWER BOARD MEETING  
AGENDA  
March 15, 2011  
5:15 p.m.**

**@\*\*\*\*The Joint Sewer Treatment Plant\*\*\*\***

**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**

Minutes from February 15, 2011

**Page Numbers**

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**4. REPORTS**

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Income & Expense Summary/ER Fund Analysis	18
Balance Sheet	19
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February 2011 Alliance Report & Flow Report	24-37

**5. NEW BUSINESS**

**6. OLD BUSINESS**

- |   |       |
|---|-------|
| A. <b>Review and further discussion of the New Service Area Connections Policy of the Joint Sewer Board of the Cities of Lake Ozark and Osage Beach</b> | 38-44 |
|---|-------|

**7. DISCUSSION**

**8. ADJOURNMENT**

**THE NEXT MEETING WILL BE APRIL 19, 2011 @ 5:15 PM @ THE JOINT SEWER TREATMENT PLANT**



**LAKE OZARK - OSAGE BEACH**  
**Joint Sewer Board**  
**MINUTES OF MEETING**  
**February 15, 2011**

**CALL TO ORDER:** Mayor Penny Lyons called the meeting to order @ 5:00 P.M., at Osage Beach 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  
Don Langley, Alderman, LO  
Ron Schmitt, Alderman, OB  
Rick King, Public Works Director, OB

Committee Members Absent:

Matt Michalik, Public Works Director, LO  
Gary Hamner

Others Present:

Gary Hutchcraft, Plant Manager  
Gary Anger, Alliance Water Resources  
Karri Bell, Treasurer, OB  
Julie Huttenlocker, Joint Sewer Clerk  
Ed Rucker, Osage Beach City Attorney

**ADOPTION OF PREVIOUS MINUTES:**

Mayor Penny Lyons asked for a motion to approve the January 18, 2011 Minutes. Mayor Johnnie Franzeskos made a motion to approve the minutes; second by City Administrator Nancy Viselli. All present voted aye, motion carried.

**BILLS:**

No discussion occurred.

Mayor Franzeskos made a motion to approve the Bills List, second by City Administrator Dave Van Dee. All present voted aye, motion carried.

**REPORTS:**

**INCOME & EXPENSE SUMMARY/ER FUND ANALYSIS**

Members reviewed. No discussion.

**REVENUE BUDGET ANALYSIS**

Some Discussion occurred on page 23, in regards to the increase both Cities paid in. Treasurer Karri Bell stated that the \$9000.00 increase was because it was billed in December but the money was received January which is what caused a one month lag.

**EXPENDITURE BUDGET ANALYSIS**

Members reviewed. No discussion.

**BALANCE SHEET**

Members Reviewed. No discussion.

**CHECK REGISTERS**

Members reviewed. No discussion.

**ALLIANCE REPORT & FLOW CHARTS:**

The average daily incoming flow for January 2011 was 0.644 mgd. We had 0.8 inches of precipitation measured at the WWTP in January 2011.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 4.1 mg/l and 3.4 mg/l respectively for January 2011. This represented better than a 98.3+% or better removal.

The MLSS combined average for both aeration basins was 3,725mg/l in January 2011. The total dry weight sludge inventory for January 2011 totaled 248,603 pounds. Plant Personal were unable to land apply in January 2011.

Mayor Penny Lyons then asked for a motion to approve the January Alliance Reports and Flow Reports. Alderman Don Langley made a motion to approve the Alliance Reports and Flows, second by Mayor Johnnie Franzeskos. All voted aye, motion carried.

**NEW BUSINESS:**

No discussion occurred.

**OLD BUSINESS:**

**A. Review and further discussion of the New Service Area Connection Policy of the Joint Sewer Board of the Cities of Lake Ozark and Osage Beach:**

A revised Policy was provided, Members reviewed. Osage Beach City Attorney Ed Rucker confirmed with Members that in terms of the scheme of charging, the general consensus between Members was that if a development was connecting through one of the Cities, they would pay a onetime charge for capacity to the Joint Sewer Board and they would also pay whatever the City negotiates with them in terms of out of City rates, per their Ordinance.

Mr. Rucker stated that if a development would connect directly to the Treatment Plant, there would also be a connection charge of 1.15 percent times the outside rate of the city nearest to were the development is. Mr. Rucker also stated that it was his understanding that Members wanted to only charge a onetime connection fee along with the outside rate. Mr. Rucker stated that the verbiage he just stated has been included in the revised policy that was given to Members prior to this discussion, he then asked if Members agreed, all Members present agreed.

Discussion occurred between Alderman Don Langley, Mayor Penny Lyons and City Attorney Ed Rucker Lyons regarding ownership of the Treatment Plant and whether it can be taken over.

**DISCUSSION:**

No discussion occurred.

**ADJOURNMENT**

Osage Beach Mayor Penny Lyons adjourned meeting at 5:20 pm.

**Next Meeting: March 15, 2011 at 5:15 P.M at The Joint Sewer Treatment Plant.**

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Penny Lyons, Mayor

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Julie Huttenlocker, Joint Sewer Clerk

JOINT SEWER BOARD

BILL LIST

March 15, 2011

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING	\$ 30,413.82
OPERATING FUND BILLS TO BE PAID:	\$ 8,814.81
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 39,228.63

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OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4170	3081	Alliance Water Resources, Inc.	Management Fee	\$ 26,866.81
4185	3080	Ameren Missouri	Electric	\$ 3,547.01
TOTAL				\$ 30,413.82

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OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3082	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4010	3083	Equipment Replacement Fund	New Basin -Loan Payment	\$ 2,330.12
4020	3084	Alliance Water Resources, Inc.	Main & Repair	\$ 177.21
4150	3084	Alliance Water Resources, Inc.	Vehicles Main	\$ 195.78
4240	3084	Alliance Water Resources, Inc.	New Lab Equipment	\$ 2,344.53
4160	3085	Alliance Water Resources, Inc.	Waste Hauling Fees	\$ 300.00
				\$ 8,814.81

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EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

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EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

---



Please Return This Portion With Your Payment.

Pure Power

AMOUNT DUE	DUE DATE
\$285.80	Feb 22, 2011
AMOUNT PAYABLE AFTER Mar 3, 2011	ACCOUNT NUMBER
\$290.09	55800-05920

Amount Enclosed \$ \_\_\_\_\_

>00550 0055754 0001 092139  
ALLIANCE WATER RESOURCES INC  
ACCTS PAYABLE  
208 S KEENE ST  
COLUMBIA, MO 65201



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

90633000 0055800059200 000000285800 000000285800

Keep This Portion For Your Records

ACCOUNT NUMBER	55800-05920
NAME	ALLIANCE WATER RESOURCES INC
SERVICE	3 ANDERSON RD LAKE OZARK, MO 65049

BILL DATE	Feb 9, 2011
-----------	-------------

TOTAL AMOUNT DUE BY	Feb 22, 2011	\$285.80
DELINQUENT AFTER	Mar 3, 2011	\$290.09

Payment Received on Jan 24, 2011 \$303.49

TYPE OF READING	METER NUMBER	SERVICE FROM TO	NO. OF DAYS	METER READING PREVIOUS	METER READING PRESENT	READING DIFFERENCE	METER MULTIPLIER	THERM FACTOR	USAGE	R	D
Total kWh	56982621	01/09-02/07	29	9745.0000	15111.0000	5366.0000	1.0000		5366.0000	A	
Peak kW	56982621	01/09-02/07	29	0.0000	62.0920	62.0920	1.0000		62.0920	A	

	Service To	SUMMARY	Service To
Total kWh	02/07/2011	5366.0000 Winter Base kWh	02/07/2011 1000.0000
Current Base kWh	02/07/2011	1000.0000 Seasonal kWh	02/07/2011 4366.0000

METERED ELECTRIC SERVICE BILLING

Rate 2M Sm Gen Svc - 3 Ph w/Dmd Threshold - Peak Demand	Service From	01/09/2011	To	02/07/2011
Base Energy Charge	1,000.00 kWh @	\$ .06860000		\$68.60
Seasonal Energy Charge	4,366.00 kWh @	\$ .03960000		\$172.89
Customer Charge				\$18.61
Rider FAC Adjustment	5,366.00 kWh @	\$ .00479000		\$25.70
Total Service Amount				\$285.80

Current Amount Due	\$285.80
Prior Amount Due	\$0.00
Total Amount Due	\$285.80

Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1.5 cents per kilowatt hour charge will apply. You may cancel at any time.

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

FEB 16 2011



00550 0055754 000637 000658 00002/00002



Please Return This Portion With Your Payment.

AMOUNT DUE	DUE DATE
\$3,261.21	Feb 22, 2011
AMOUNT PAYABLE AFTER Mar 3, 2011	ACCOUNT NUMBER
\$3,310.13	45800-05832

Amount Enclosed \$ \_\_\_\_\_



>00550 0055754 0001 092139 00550 1 MB 0.382 MIX 630  
 ALLIANCE WATER RESOURCES INC  
 ACCTS PAYABLE  
 206 S KEENE ST  
 COLUMBIA, MO 65201



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

40600000 0045800058302 000003261210 000003261210

Keep This Portion For Your Records

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

BILL DATE	Feb 9, 2011
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TOTAL AMOUNT DUE BY	Feb 22, 2011	\$3,261.21
DELINQUENT AFTER	Mar 3, 2011	\$3,310.13

Payment Received on Jan 24, 2011 \$3,576.76

TYPE OF READING	METER NUMBER	SERVICE FROM TO	NO. DAYS	METER READING PREVIOUS	METER READING PRESENT	READING DIFFERENCE	METER MULTIPLIER	THERM FACTOR	USAGE	R.D.
Total kWh	11673321	01/09-02/07	29	2703.0000	3077.0000	374.0000	160.0000		59840.0000	A
Peak kW	11673321	01/09-02/07	29	0.0000	0.8640	0.8640	160.0000		138.2400	A

Service To			SUMMARY			Service To		
Total kWh	02/07/2011	59840.0000	Peak kW	02/07/2011	138.2000			
Total Billing Demand	02/07/2011	138.2000	October Winter Base kW	02/07/2011	177.6000			
Winter Base Demand	02/07/2011	138.2000	Base kWh Ratio	02/07/2011	1.0000			
Base kWh (HUD)	02/07/2011	59840.0000	Seasonal kWh (HUD)	02/07/2011	0.0000			

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service	Service From	To	01/09/2011	02/07/2011
Seasonal Energy Charge	0.00 kWh	@	\$ .03260000	\$ 0.00
Demand Charge	138.20 kW	@	\$ 1.54000000	\$ 212.83
Base Energy Chg / Hours Used	20,730.00 kWh	@	\$ .05600000	\$ 1,160.88
Base Energy Chg / Hours Used	27,640.00 kWh	@	\$ .04150000	\$ 1,147.06
Base Energy Chg / Hours Used	11,470.00 kWh	@	\$ .03260000	\$ 373.92
Customer Charge				\$ 79.89
Rider FAC Adjustment	59,840.00 kWh	@	\$ .00479000	\$ 286.63
Total Service Amount				\$ 3,261.21

Current Amount Due	\$3,261.21
Prior Amount Due	\$ 0.00
Total Amount Due	\$3,261.21

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

FEB 16 2011



00550 0055754 000666 000657 0000100002



**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: 4812

Invoice Date: 01-Mar-11

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Mar-11	
	Base Fee	\$21,787.07
	100% Reimbursement of Actual and Budget Power Expenses for 2010	\$5,079.74
<b>TOTAL DUE</b>		<b>\$26,866.81</b>

AWR and Lake Ozark / Osage Beach Joint Wastewater Agreement  
 Schedule of Actual v Budget Power Bill for Contract Year Ending December 31, 2010  
 Section IV Compensation Paragraph: Power Compensation

<u>Jan to Dec Contract Year</u>	<u>Actual Amount</u>	<u>Budget Amount</u>	<u>Variance</u>
Jan	2,746.85		
Feb	2,771.28		
Mar	3,640.35		
Apr	3,679.13		
May	7,182.17		
Jun	7,977.04		
Jul	8,612.50		
Aug	8,770.06		
Sep	5,151.07		
Oct	4,454.00		
Nov	3,815.04		
Dec	3,880.25		
	<u>62,679.74</u>	<u>57,600.00</u>	<u>5,079.74</u>
Due to AWR (Due to Lake Ozark/Osage Beach)			<u><u>5,079.74</u></u>

**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:** 4842  
**Invoice Date:** 1-Mar-11  
**Customer No:** 20220  
**Terms:** 30 days

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

REFERENCE	DESCRIPTION	AMOUNT
	TG Technical Services - 1 Invoice - 50%	\$52.21
	Mark Hopwood - 1 Invoice - 50%	\$125.00
	Hach - 1 Invoice - 100%	\$2,344.53
	Lake Car Care - 1 Invoice - 50%	\$195.78
<b>TOTAL DUE</b>		<b>\$2,717.52</b>

# Invoice

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

Date	Invoice #
2/22/2011	2771

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

<b>Ship To</b>
Alliance Water Resources Gary Hutchcraft # 3 Anderson Road Lake Ozark, MO 65049

P.O. No.	Terms	Rep	Ship Via	FOB
Verbal Gary	Net 30	BK	Federal Express	PP&A

Ordered	Item	Description	Amount - Each	Total Amount
1	TG-34SG-IH	3-4 Gas Instrument Calibration - In House Drager X-am 2000 S/N: ARYN-0670	90.00	90.00T
2	ON-243-PC1500B...	Duracell AA Battery	0.73	1.46T
1	Shipping	Shipping and Handling Fee Calibrated by BK. Certificate # 70	12.95	12.95
GL Acct#: <u>6705 30 59.15 1200 00</u> Signature: <u>Gary Hutchcraft</u> Date: <u>2/28/11</u>			\$52.21 4000	
			<b>Subtotal</b>	\$104.41
Phone #	Fax #	E-mail	<b>Sales Tax (7.6%)</b>	\$6.95
816-524-8100	816-278-5536	lisa@tgtechservices.com	<b>Total</b>	\$111.36

## Mark Hopwood

**BILL TO** Alliance Water Resources  
Lake Ozark, MO  
c/o Gary

**SHIP TO**

Invoice # 1654  
Invoice Date 2/20/2011  
Customer ID 1

DATE	YOUR ORDER #	OUR ORDER #	SALES REP.	F.O.B.	SHIP VIA	TERMS	TAX ID
			mh				488-62 1984

QTY	ITEM	UNITS	DESCRIPTION	WEEK	RENTAL	UNIT PRICE	TOTAL
	Labor 4 coats floor finish + one extra in office		Labor to lightly strip and scrub tile floors throughout office				300.00
	Discount for previous customer						(50.00)

GL Acct #: 6700-70\*125.00 1220-70\*125.00

Signature: *Sony Hubbscraft* 4020  
Date: 2/22/11

Tax	
Shipping	
Miscellaneous	
<b>BALANCE DUE</b>	<b>250.00</b>

### REMITTANCE

Invoice #	1654
Customer ID	2
Date	02/20/2011
Amount Enclosed	

YOUR LOGO  
HERE

Mark Hopwood  
401 Kristi Lane  
Ashland, Mo65010

PHONE: (573) 657-6182, 573-864-9302  
FAX  
E-MAIL: mhopwood@centurytel.net



Be Right™

INVOICE NUMBER 7113496

DATE: 02/14/2011

Page: 1

DETACH TOP PORTION AND RETURN WITH PAYMENT TO:

Hach Company
2207 Collections Center Drive
Chicago, IL 60693
Phone: (800) 227-4224

TOTAL: \$2,347.66

Have you ordered online?
Order at WWW.HACH.COM

71134969 002633907 00000234766 021411

DETACH HERE

Original

S O L D T O
ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK, MO 65049-
United States

S H I P T O
Sort Seg: 129
ALLIANCE WATER RESOURCES
#3 ANDERSON RD
LAKE OZARK WWTP
LAKE OZARK, MO 65049
United States

Table with invoice details: INVOICE NO, PURCHASE ORDER NUMBER, TERMS, FREIGHT, CARRIER, ACCOUNT, REF. NO.

Remit to:
Hach Company
2207 Collections Center Dr
Chicago, IL 60693
Phone: (800) 227-4224

These commodities are sold, packaged, marked, and labeled for destinations in the United States. Exportation of these commodities may require special licensing, packaging, marking or labeling.

Main product table with columns: LN#, PRODUCT DESCRIPTION, ITEM NO., QUANTITY, UNIT PRIC, EXT. PRICE

OVER

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization. E

FEDERAL TAX ID # 42-0704420

Footer box containing contact information for Hach Hydromet, Hach Flow Products & Services, Environmental Test Systems (ETS), and Other Hach Brands.



INVOICE NUMBER 7113496

DATE: 02/14/2011

Page: 2

ORDER CONTACT:  
GARY HUTCHCRAFT  
5733650455

Notes:

\*E9  
CUSTOMER NEEDED ONE INVOICE. ORDER SHIPPED PARTIAL,  
SO TWO INVOICES GENERATED. CREDIT ISSUED ON 309544665.  
ORIGINAL ORDER 309531175/INVOICES 7105847-7110141  
MBAKLEY 021411

SUBTOTAL	2,284.58
FREIGHT CHARGES	59.95
TAX	<del>3.13</del>
INVOICE TOTAL	<del>2,347.66</del> 2,344.53

NEW LAB EQUIP.

Alt. Acct#: 1220-20  
Signature: Gary Hutchcraft  
Date: 2/22/11

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization. E  
FEDERAL TAX ID # 42-0704420

<b>Hach Hydromet</b> 800-949-3766 Fax: 970-461-3921	<b>Hach Flow Products &amp; Services</b> 800-368-2723 Fax: 301-874-8459	<b>Environmental Test Systems (ETS)</b> 800-548-4381 Fax: 574-264-4533	<b>Other Hach Brands</b> 800-454-0263 Fax: 970-461-3919
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**Lake Car Care**

909 E. Hwy 42  
 Osage Beach MO 65065  
 (573) 348-1126

# Invoice

Number: 4935

Date: February 23, 2011

**Bill To:**

Alliance Water Resources

**Ship To:**

Alliance Water Resources

**Customer #**

365-0455

**Project**

Dodge Dakota

**Description**

Alignment  
 Replace spark plugs, clean throttle body and replace sway bar links x 2  
 parts  
 spark plugs  
 sway bar links x 2  
 Install Battery  
 battery tax

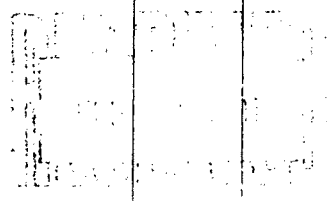
Price/Rate	Tax	Amount
60.00		60.00
150.00		150.00
29.99	✓	29.99
53.11	✓	53.11
97.95	✓	97.95
0.50		0.50

GL Acct#: 6702-20 \$209.76 1220-20 \$195.78

Signature: *Samy Hulchraft*

Date: 2/28/11

4150



<b>Sub-Total</b>	<b>\$391.55</b>
State Tax 7.725% on 181.05	13.99
<b>Total</b>	<b>\$405.54</b>



**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: 4810  
Invoice Date: 28-Feb-11  
Customer No: 20220  
Terms: 30 days

SOLO TO:

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

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Feb-11 6 Hauled Waste Loads @ \$50.00 each	\$300.00
TOTAL DUE		\$300.00

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

Account Number	Account Name	2/28/2011				Actual as of 2/28/2011	2011 February Revenue	Percent YTD
		2009 Actual	2010 Actual	2011 Budget	2011 Actual			
3020	Osage Beach	497,506.57	407,036.02	396,900.00	66,679.65	32,996.02	17%	
3010	Lake Ozark	88,558.73	92,130.61	93,100.00	14,987.01	7,837.31	16%	
3100	Interest	47.88	136.11	100.00	21.79	7.61	22%	
3060	Waste Haulers' Fee	45,240.00	41,630.00	38,000.00	4,700.00	900.00	12%	
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	86,388.45	41,740.94	16%	
E/R Fund Income		1,183.30	1,645.40	1,000.00	58.37	8.03	6%	
<b>TOTAL INCOME</b>		<b>632,745.88</b>	<b>542,578.14</b>	<b>529,100.00</b>	<b>86,446.82</b>	<b>41,748.97</b>	<b>16%</b>	

**MONTH-TO-DATE AND YEAR-TO-DATE  
EXPENDITURE/BUDGET ANALYSIS  
2/28/2011**

Account Number	Account Name	2009 Actual	2010 Actual	2011 Budget	2011 Actual as of 2/28/2011	2011 February Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	42,000.00	6,934.34	3,467.17	17%
4010	ERF Repayment	27,961.44	27,961.44	27,961.44	4,660.24	2,330.12	17%
4020	**Maintenance & Repair	34,052.32	15,611.62	57,000.00	511.27	423.77	1%
4140	Insurance	16,305.00	16,211.00	17,000.00	0.00	0.00	0%
4150	Vehicle Repair/Maint	5,906.73	2,660.05	3,000.00	214.00	214.00	7%
4160	Haulers Fees to Contractor	8,600.00	8,000.00	8,000.00	900.00	900.00	11%
4170	Contract Management	308,837.65	312,836.20	265,000.00	43,574.14	21,787.07	16%
4175	Electric	0.00	0.00	65,000.00	0.00	0.00	0%
4190	Miscellaneous	0.00	0.00	0.00	0.00	0.00	0%
4200	Audit	1,550.00	1,600.00	1,650.00	0.00	0.00	0%
4220	**Professional Service	155,052.28	24,828.71	30,000.00	3,744.18	3,744.18	12%
4240	*Capital Purchases	5,339.49	1,659.40	12,000.00	0.00	0.00	0%
Totals		605,210.95	452,974.46	528,611.44	60,538.17	32,866.31	11%
**E/R Expenses		41,562.00	31,809.73	10,000.00	1,523.00	0.00	15%
<b>TOTAL EXPENSES</b>		<b>646,772.95</b>	<b>484,784.19</b>	<b>538,611.44</b>	<b>62,061.17</b>	<b>32,866.31</b>	<b>12%</b>

**\*\*\*Professional Services:**

Engineering Consulting Fee/Backup Generator	5,000.00
Normal/Magruder Lawsuit	25,000.00
	<u>30,000.00</u>

**\*Capital Purchase Detail:**

16 Channel Auto Dialer	8,000.00
Pressure Washer/Steam Clean	4,000.00
	<u>12,000.00</u>

**\*\*Maintenance & Repair**

UV Spare Parts	5,000.00
Replace Wooden Doors with Fiberglass	4,000.00
Rock for Road	2,000.00
Normal Maintenance	6,000.00
#2 Aeration Basin Main	40,000.00
	<u>57,000.00</u>

**OPERATING FUND INCOME AND EXPENSE SUMMARY**  
**2/28/2010**

Beginning Balance	194,613.91
Income - Osage Beach	32,996.02
Income - Lake Ozark	7,837.31
Income - Other	0.00
Income - Waste Haulers' Fees	900.00
Interest - Checking	7.61
Transfers From E/R Fund	0.00
Transfers to E/R fund	-5,797.29
Expenses	-30,615.67
 Ending Fund Balance	 <b>199,941.89</b>
 NOW Account - Central Bank	 99,941.89
CD First National Bank, 1.00%, 07/10/11	100,000.00
Outstanding Checks:	
Deposit in Transit:	0.00
	<b>199,941.89</b>

**EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY**  
**2/28/2010**

Beginning Balance	178,718.65
Interest - Checking	8.03
Transfers From E/R Fund	5,797.29
Transfers to E/R Fund	0.00
Income - CD Interest	0.00
Income - Miscellaneous	0.00
Expenses	0.00
 Ending Fund Balance	 <b>184,523.97</b>
 NOW Account - First Bank	 72,920.11
CD First National Bank, 1.00%, 07/10/11	111,603.86
Deposit in Transit	0.00
Outstanding Checks:	0.00
	<b>184,523.97</b>

**OPERATING FUND  
BALANCE SHEET  
2/28/2010**

		DEBITS	CREDITS
ASSETS	CASH AND INVESTMENTS	199,941.89	
ACCOUNTS PAYABLE	DUE TO E.R. FUND - BASIN		72,689.48
EQUITY	FUND BALANCE		127,252.41
TOTAL OPERATING FUND		199,941.89	199,941.89

**EQUIPMENT REPLACEMENT FUND  
BALANCE SHEET  
2/28/2010**

		DEBITS	CREDITS
ASSETS	CASH AND INVESTMENTS	184,523.97	
ACCOUNTS RECEIVABLE	DUE FROM OPERATING FUND - BASIN	72,689.48	
EQUITY	FUND BALANCE		257,213.45
TOTAL EQUIPMENT REPLACEMENT FUND		257,213.45	257,213.45

Operating Fund

**CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND**

	<b>reconciled balance 10/31/10</b>			<b>158,555.58</b>
3060	Alliance Water Resources, Inc.	X	26,055.68	132,499.90
3061	ER Fund Transfer	X	3,467.17	129,032.73
3062	ER Fund Loan Payment	X	2,330.12	126,702.61
3063	Alliance Water Resources, Inc.	X	605.33	126,097.28
	Deposit	X		6,796.13
	Deposit	X		34,037.20
	Deposit	X		1,520.00
	Deposit	X		683.00
	Interest	X		13.42
	<b>reconciled balance 11/30/10</b>			<b>169,147.03</b>
3064	Alliance Water Resources, Inc.	X	26,055.68	143,091.35
3065	ER Fund Transfer	X	3,467.17	139,624.18
3066	ER Fund Loan Payment	X	2,330.12	137,294.06
3067	Alliance Water Resources, Inc.	X	204.33	137,089.73
	Deposit	X		7,191.50
	Deposit	X		33,641.83
	Interest	X		15.20
	<b>reconciled balance 12/31/10</b>			<b>177,938.26</b>
3068	Alliance Water Resources, Inc.	X	21,787.07	156,151.19
3069	ER Fund Transfer	X	3,467.17	152,684.02
3070	ER Fund Loan Payment	X	2,330.12	150,353.90
3071	Alliance Water Resources, Inc.	X	87.50	150,266.40
3072	CD		100,000.00	50,266.40
	Deposit	X		7,149.70
	Deposit	X		33,383.63
	Deposit	X		3,800.00
	Interest	X		14.18
	<b>reconciled balance 1/31/11</b>			<b>94,613.91</b>
3073	Alliance Water Resources, Inc.	X	21,787.07	72,826.84
3074	ER Fund Transfer	X	3,467.17	69,359.67
3075	ER Fund Loan Payment	X	2,330.12	67,029.55
3076	Alliance Water Resources, Inc.	X	637.77	66,391.78
3077	Alliance Water Resources, Inc.	X	900.00	65,491.78
3078	Bryan Cave	X	2,572.82	62,918.96
3079	Bryan Cave	X	1,171.00	61,747.96
3080	Ameren Missouri	X	3,547.01	58,200.95
	Deposit	X		7,837.31
	Deposit	X		32,996.02
	Deposit	X		900.00
	Interest	X		7.61
	<b>reconciled balance 1/31/11</b>			<b>99,941.89</b>



**Central Bank**  
of Lake of the Ozarks

MEMBER FDIC

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

001856

Return Service Requested

EFFECTIVE JANUARY 4, 2011 WE WILL NO LONGER CHARGE A \$2.00 DAILY OVERDRAFT FEE. OUR OVERDRAFT/RETURN CHECK (NSF) FEE AND STOP PAYMENT FEE WILL BE \$30.00.



Period 02/01/2011-02/28/2011 Page 1 of 2

Web Address www.cbolobank.com

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

M 000007297 M 8

**Your Financial Summary on February 28, 2011**

**Account Balances & Other Assets**

Checking	\$ 99,941.89
<b>Total</b>	<b>\$ 99,941.89</b>

**Detailed Explanation of Account Balances and Other Assets**

**Basic Plus Interest Checking**

No. 000007297 Beginning Balance January 31, 2011 \$ 94,613.91

**Deposits**

Feb. 10 Deposit	300.00
Feb. 15 Deposit	7,837.31
Feb. 15 Deposit	32,996.02
Feb. 16 Deposit	600.00
Feb. 28 Interest Earned	7.61

**Total +\$ 41,740.94**

**Checks**

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3073	Feb. 15	21,787.07	3077	Feb. 17	900.00
3074	Feb. 17	3,467.17	3078	Feb. 18	2,572.82
3075	Feb. 17	2,330.12	3079	Feb. 18	1,171.00
3076	Feb. 17	637.77	3080	Feb. 23	3,547.01

**Total -\$ 36,412.96**

**Ending Balance February 28, 2011 \$ 99,941.89**

Number of days since last statement/interest cycle 28  
Beginning and ending dates for calculation of statement/interest cycle are 02/01/2011 through 02/28/2011  
Average collected balance 99,212.00  
Interest rate 0.10%  
Annual percentage yield earned 0.10%

**CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND**

				<b>39,788.23</b>
	reconciled balance 4/30/10			
	Interest	X	3.20	39,791.43
	Deposit	X	5,797.29	45,588.72
	reconciled balance 5/31/10			<b>45,588.72</b>
	Interest	X	5.24	45,593.96
	Deposit	X	5,797.29	51,391.25
	reconciled balance 6/30/10			<b>51,391.25</b>
	Interest	X	6.55	51,397.80
	Deposit	X	5,797.29	57,195.09
	reconciled balance 7/31/10			<b>57,195.09</b>
1117	Alliance Water Resources	X	1,641.03	55,554.06
	Interest	X	7.66	55,561.72
	Deposit	X	5,797.29	61,359.01
	reconciled balance 8/31/10			<b>61,359.01</b>
	Interest	X	7.76	61,366.77
	Deposit	X	5,797.29	67,164.06
	reconciled balance 9/30/10			<b>67,164.06</b>
	Interest	X	8.12	67,172.18
	Deposit	X	5,797.29	72,969.47
	reconciled balance 10/31/10			<b>72,969.47</b>
1118	Spray Com Utilities	X	18,750.00	54,219.47
1119	GLW	X	2,998.70	51,220.77
	Interest	X	9.26	51,230.03
	Deposit	X	5,797.29	57,027.32
	reconciled balance 11/30/10			<b>57,027.32</b>
	Interest	X	7.65	57,034.97
	Deposit	X	5,797.29	62,832.26
	reconciled balance 12/31/10			<b>62,832.26</b>
1120	Denny's Dock Service	X	1,523.00	61,309.26
	Interest	X	8.24	61,317.50
	Deposit	X	5,797.29	67,114.79
	reconciled balance 1/31/11			<b>67,114.79</b>
	Interest	X	8.03	67,122.82
	Deposit	X	5,797.29	72,920.11
	reconciled balance 2/28/11			<b>72,920.11</b>





4558 Hwy 54, Suite 100  
 Osage Beach, MO 65065  
 (573) 348-2265

009 00010 26 PAGE: 1  
 ACCOUNT: 100395311 02/28/2011  
 DOCUMENTS: 1

90

LAKE OZARK-OSAGE BEACH JOINT  
 SEWER BD.-TREATMENT PLANT BD.  
 1000 CITY PARKWAY  
 OSAGE BEACH MO 65065

=====

THE LAKE OZARK BRANCH WILL BE CLOSING ON APRIL 30, 2011

=====

BUSINESS MMDA ACCOUNT 100395311

=====

LAST STATEMENT 01/31/11	67,114.79
2 CREDITS	5,805.32
DEBITS	.00
THIS STATEMENT 02/28/11	72,920.11

DESCRIPTION	OTHER CREDITS	DATE	AMOUNT
WIRE TRANSFER		02/16	5,797.29
INTEREST		02/28	8.03

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

AVERAGE LEDGER BALANCE:	69,806.38	INTEREST EARNED:	8.03
AVERAGE AVAILABLE BALANCE:	69,806.38	DAYS IN PERIOD:	28
INTEREST PAID THIS PERIOD:	8.03	ANNUAL PERCENTAGE YIELD EARNED:	.15%
INTEREST PAID 2011:	16.27		
INTEREST PAID 2010:	83.64		

--- ITEMIZATION OF OVERDRAFT AND RETURNED ITEM FEES ---

*****					
*		TOTAL FOR		TOTAL	*
*		THIS PERIOD		YEAR TO DATE	*
-----					
* TOTAL OVERDRAFT FEES:		.00		.00	*
-----					
* TOTAL RETURNED ITEM FEES:		.00		.00	*
*****					

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



**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 February 2011**

Submitted by Alliance Water Resources, Inc. for the

March 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. No leaks, no spills, and no unauthorized releases have occurred to waters of the state. No work related lost time accidents have occurred during the month.

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

## PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	Fecal Coliform Colonies/100 ml
Monthly Average	4.2	5.7	NA	0
Peak Day	5.1	7.4	7.9	0
Percent Removal	98.3	97.6	NA	NA

*Sample April 12th*

## 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 0.885 MGD or 29% of Permitted flow with Lake Ozark contributing 20% of the total flow and Osage Beach contributing 80%. 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 52156 pounds of BOD.

## BIOSOLIDS APPLICATION AND INVENTORY

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

0 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 563,750 gallons with a level of 6.0 feet in Tank 1 and 5.0 feet in Tank 2.

## WASTEHAULERS

The plant received 6 loads of septage during the month totaling 15,000 gallons.

## WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

## WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We noticed the drive motor on Clarifier #2 is making a little more noise than normal and have troubleshot it and found that the bearings are causing the noise so we ordered a replacement.

## SAFETY

- We conducted our monthly routine Safety Meeting on Frist Aid / Blood Borne Pathogens on the 8<sup>th</sup> of February.

## REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 4<sup>th</sup> of March.
- We took and shipped our first quarter 503 sludge samples on the 16<sup>th</sup> and have not received the results as of yet.

## MISCELLANEOUS AND RECOMMENDATIONS

- We would like to look into possibly having the skimmer arms rebuilt on both Clarifiers 1 & 2, towards the end of the year, if budget allows, due to the bushings and the metal pipe of the swivel part of the arms are getting worn and thin.
- The influent sampler quit in January and would like to see if budget allows for the purchase of a new sampler pump, approx. \$2000.00.

**TABLE A  
LAKE OZARK/OSAGE BEACH WWTP**

MONTH OF February 2011

DATE	RAIN FALL IN.	FLOW					BOD 5 MG/L			TSS MG/L		
		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-Feb		0.132	0.454	0.586	22.5	77.5						
2-Feb	2	0.128	0.377	0.505	25.3	74.7						
3-Feb		0.113	0.327	0.440	25.7	74.3						
4-Feb		0.126	0.406	0.532	23.7	76.3	200	232	247	164	164	220
<b>5-Feb</b>	<b>0.2</b>	<b>0.134</b>	<b>0.495</b>	<b>0.629</b>	<b>21.3</b>	<b>78.7</b>						
<b>6-Feb</b>		<b>0.142</b>	<b>0.579</b>	<b>0.721</b>	<b>19.7</b>	<b>80.3</b>						
7-Feb		0.138	0.528	0.666	20.7	79.3						
8-Feb		0.134	0.478	0.612	21.9	78.1						
9-Feb	0.15	0.141	0.450	0.591	23.9	76.1						
10-Feb		0.130	0.389	0.519	25.0	75.0						
11-Feb		0.139	0.423	0.562	24.7	75.3	213	353	333	68	300	346
<b>12-Feb</b>		<b>0.159</b>	<b>0.556</b>	<b>0.715</b>	<b>22.2</b>	<b>77.8</b>						
<b>13-Feb</b>		<b>0.196</b>	<b>0.765</b>	<b>0.961</b>	<b>20.4</b>	<b>79.6</b>						
14-Feb		0.250	1.223	1.473	17.0	83.0						
15-Feb		0.212	0.952	1.164	18.2	81.8						
16-Feb		0.213	1.019	1.232	17.3	82.7						
17-Feb		0.237	0.939	1.176	20.2	79.8						
18-Feb		0.207	0.859	1.066	19.4	80.6	180	170	192	154	132	162
<b>19-Feb</b>		<b>0.185</b>	<b>0.755</b>	<b>0.940</b>	<b>19.7</b>	<b>80.3</b>						
<b>20-Feb</b>		<b>0.210</b>	<b>0.857</b>	<b>1.067</b>	<b>19.7</b>	<b>80.3</b>						
21-Feb	0.2	0.180	0.800	0.980	18.4	81.6						
22-Feb		0.155	0.688	0.843	18.4	81.6						
23-Feb	0.25	0.145	0.553	0.698	20.8	79.2						
24-Feb	0.2	0.152	0.602	0.754	20.2	79.8						
25-Feb	1	0.448	1.686	2.134	21.0	79.0	248	238	238	182	188	222
<b>26-Feb</b>		<b>0.217</b>	<b>0.759</b>	<b>0.976</b>	<b>22.2</b>	<b>77.8</b>						
<b>27-Feb</b>		<b>0.175</b>	<b>0.669</b>	<b>0.844</b>	<b>20.7</b>	<b>79.3</b>						
28-Feb	0.75	0.232	1.149	1.381	16.8	83.2						
SUM	4.8	5.030	19.737	24.767								
AVG		0.180	0.705	0.885	20	80	210	248	253	142	196	238
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

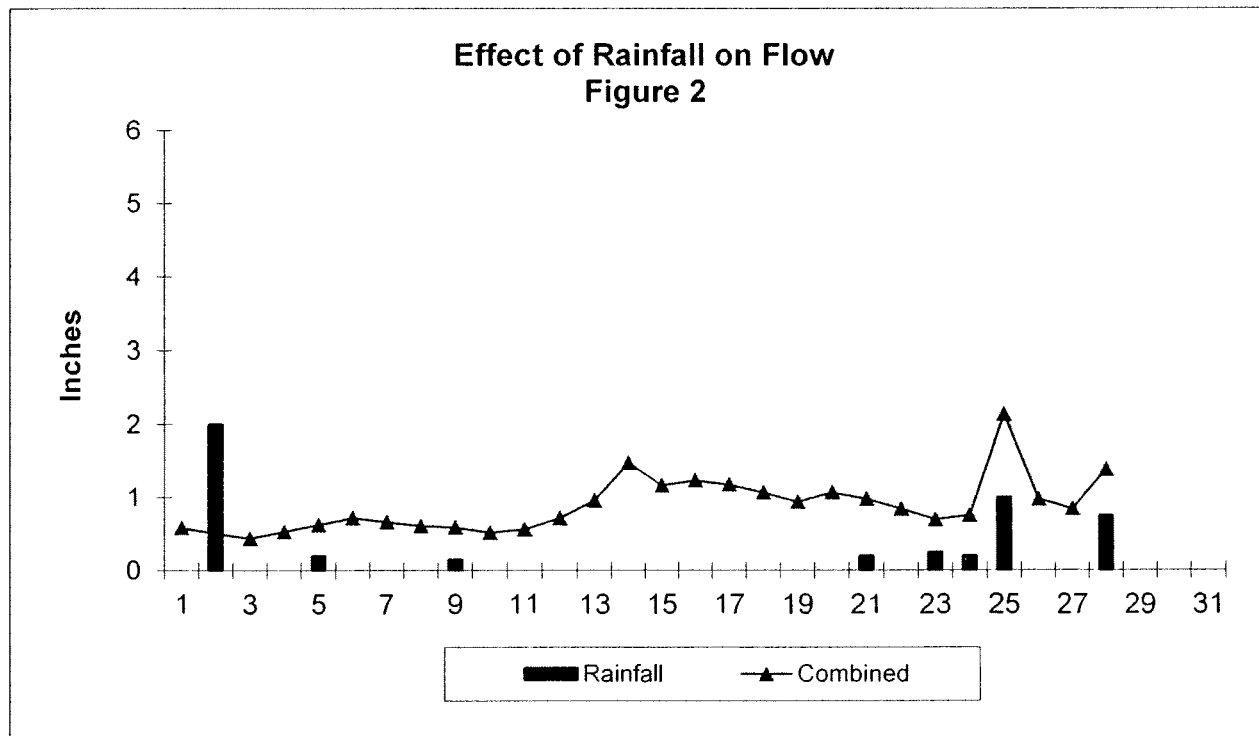
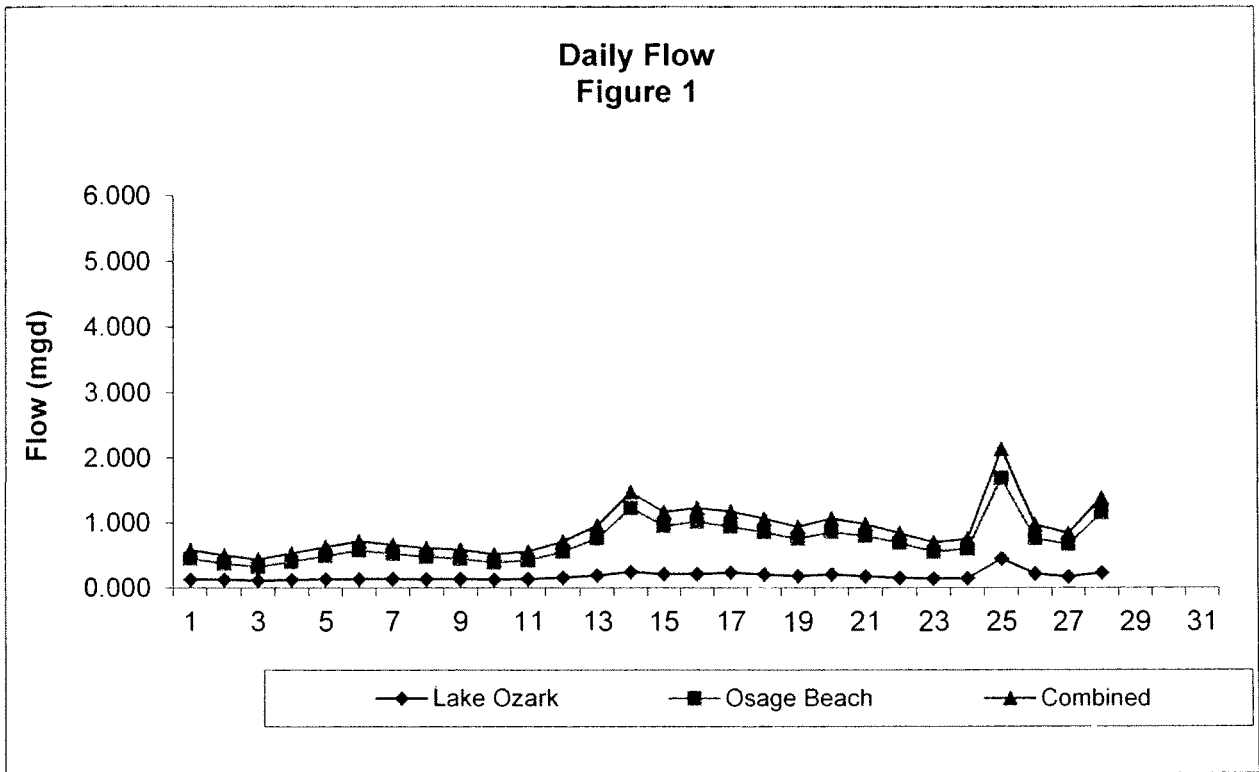


TABLE B  
JOINT SEWER BOARD  
Monthly Flows

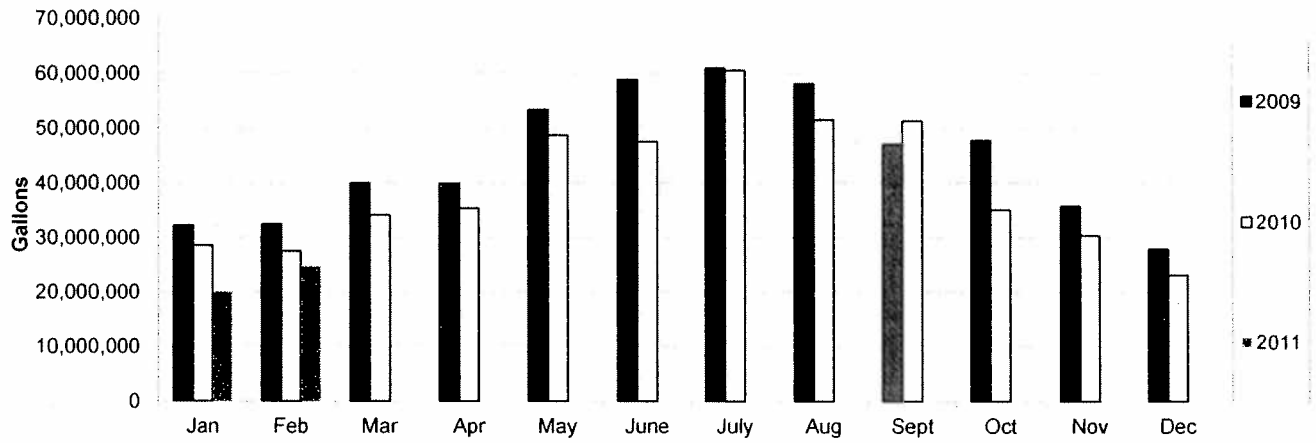
<u>2009</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	27,603,000	86%	4,633,000	14%	32,236,000	100%
February	3	28,264,000	87%	4,216,000	13%	32,480,000	100%
March	4.5	34,287,000	86%	5,701,000	14%	39,988,000	100%
April	4.6	33,832,000	85%	6,093,000	15%	39,925,000	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%
	<u>67.0</u>	<u>448,775,000</u>	<u>84%</u>	<u>79,464,000</u>	<u>16%</u>	<u>534,126,000</u>	<u>100%</u>

<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%
	<u>55.9</u>	<u>389,102,000</u>	<u>82%</u>	<u>80,008,000</u>	<u>18%</u>	<u>473,536,000</u>	<u>100%</u>

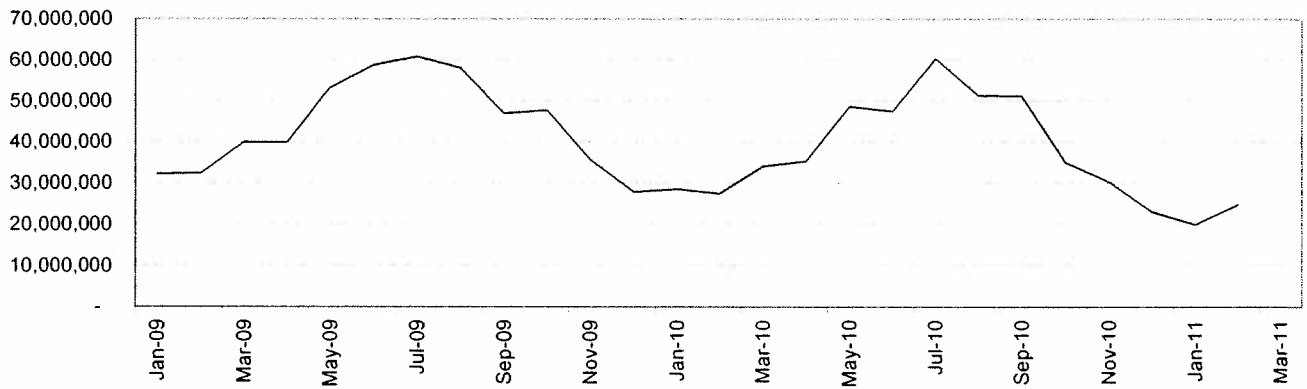
<u>2011</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	15,566,000	78%	4,395,000	22%	19,961,000	100%
February	4.8	19,737,000	80%	5,030,000	20%	24,767,000	100%
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
	<u>5.6</u>	<u>35,303,000</u>	<u>79%</u>	<u>9,425,000</u>	<u>21%</u>	<u>44,728,000</u>	<u>100%</u>

2" snow =  
1/2" rain

Monthly Influent Flow  
Figure 3A

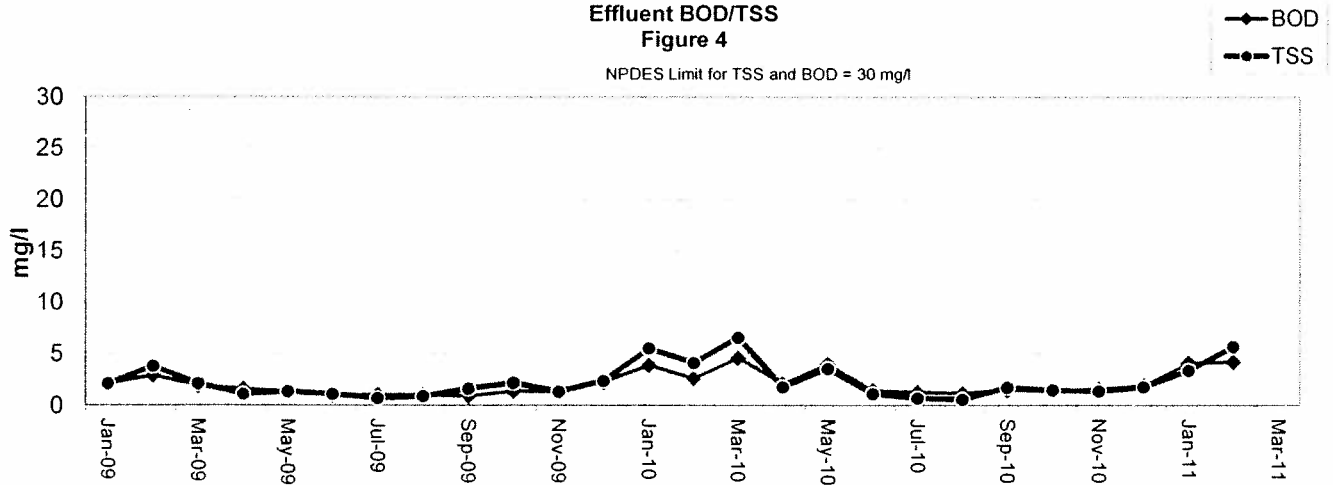


Monthly Influent Flow  
Figure 3B



Effluent BOD/TSS  
Figure 4

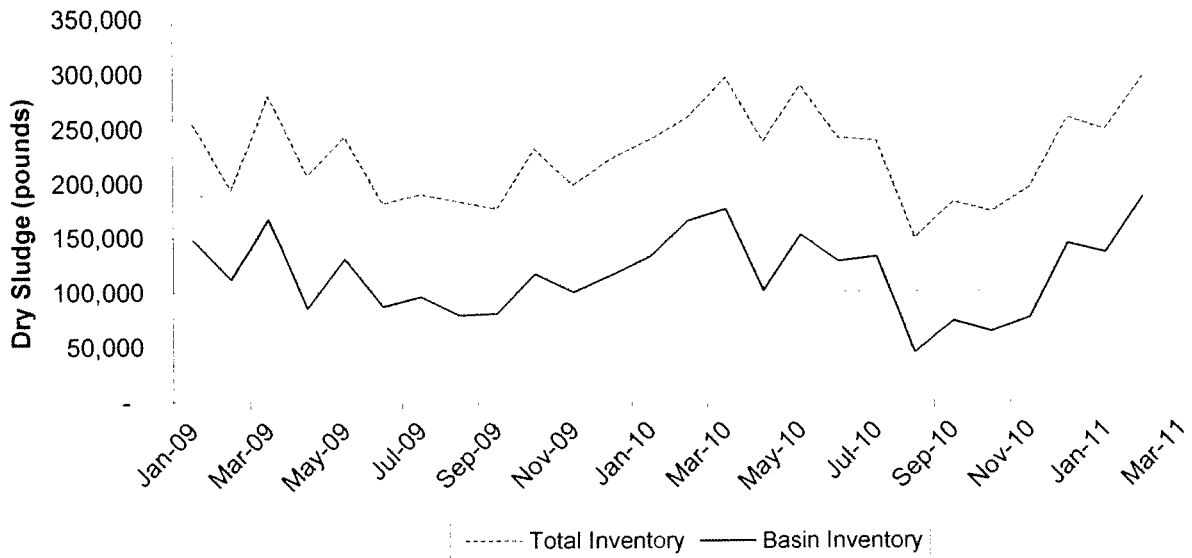
NPDES Limit for TSS and BOD = 30 mg/l



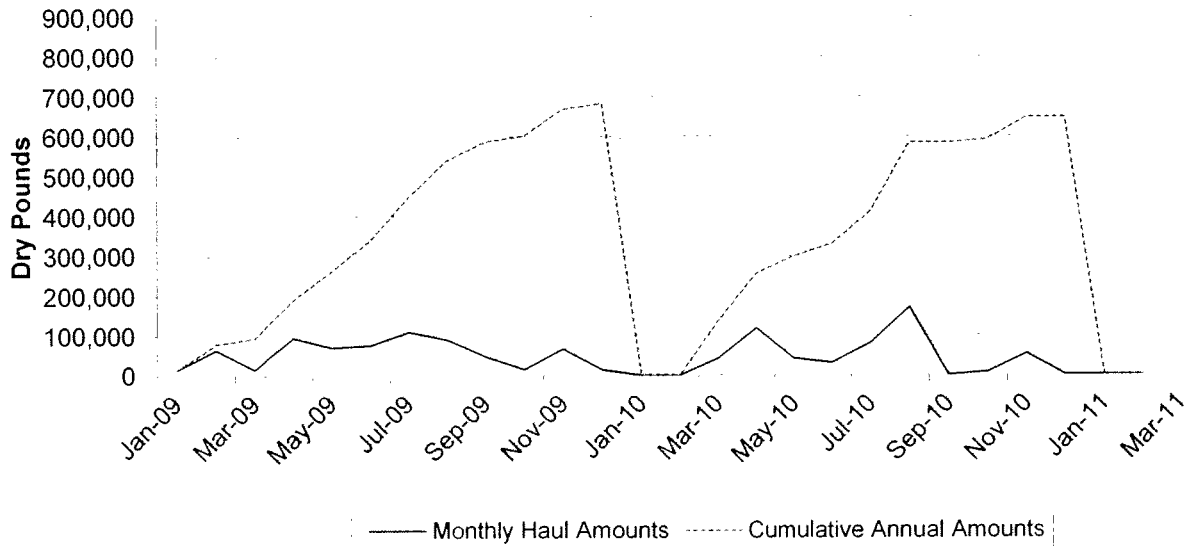


Date	Hauled Sludge			Basin Depths			Blanket Depths			MLSS Inventory			Blanket and MLSS Inventor			MLSS			Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Tank #1	Tank #2	AS #1	AS #2	AS #1	AS #2	AS #1	AS #2	AS #1	AS #2	Gallons	# Dry	% Solids	Studge Inventory	Total Dry	Loads
Jan-08	12	44,400	14,627	4.0%	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	59,000
Feb-08	53	196,100	65,018	4.0%	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	82,000
Mar-08	12	44,400	15,738	4.3%	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	45,000
Apr-08	82	303,400	96,032	3.8%	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	65,000
May-08	53	196,100	71,251	4.4%	5.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	64,000
Jun-08	70	259,000	76,875	3.6%	4.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32	78,500
Jul-08	70	259,011	110,008	5.1%	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50	163,500
Aug-08	84	310,800	90,568	3.5%	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55	145,000
Sep-08	43	159,100	47,213	3.6%	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37	97,500
Oct-08	13	48,100	14,626	3.6%	6.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43	112,500
Nov-08	57	210,900	66,838	3.8%	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57	148,500
Dec-08	10	37,000	13,577	4.4%	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	60,000
Jan-09	0	-	0	4.4%	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	50,500
Feb-09	0	-	0	4.4%	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35	93,000
Mar-09	37	136,900	42,800	4.4%	7.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	33,000
Apr-09	101	373,700	119,328	3.7%	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48	124,000
May-09	31	114,700	43,047	4.5%	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48	124,000
Jun-09	30	111,000	31,506	3.4%	7.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48	124,000
Jul-09	68	251,600	82,206	3.9%	7.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60	157,500
Aug-09	141	521,700	171,540	3.9%	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	52,000
Sep-09	0	-	0	3.9%	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96	252,000
Oct-09	9	33,300	8,517	3.1%	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	46,500
Nov-09	39	144,300	54,094	4.5%	4.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	65,000
Dec-09	0	-	0	4.5%	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	38,000
Jan-10	0	-	0	4.5%	5.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	56,500
Feb-10	0	-	0	4.5%	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	45,000
Mar-10	0	-	0	4.5%	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	15,000

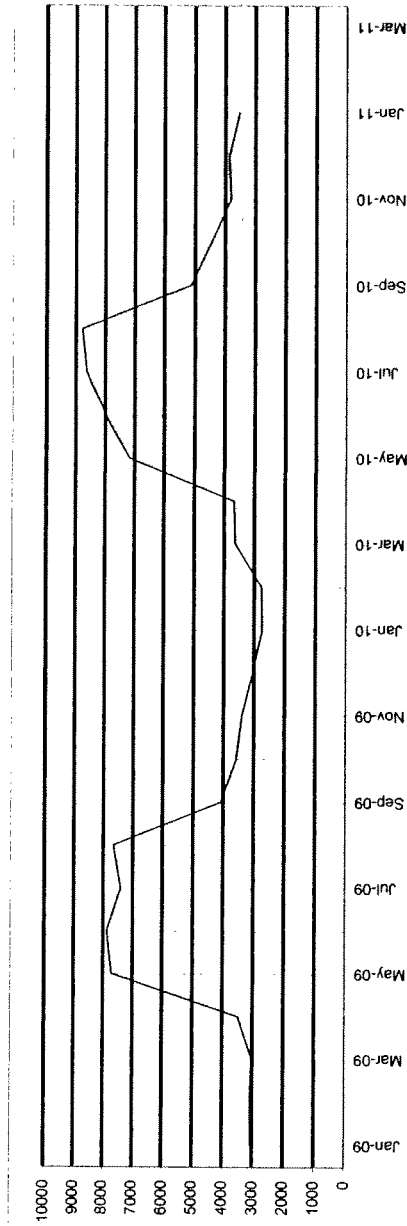
### Sludge Inventory



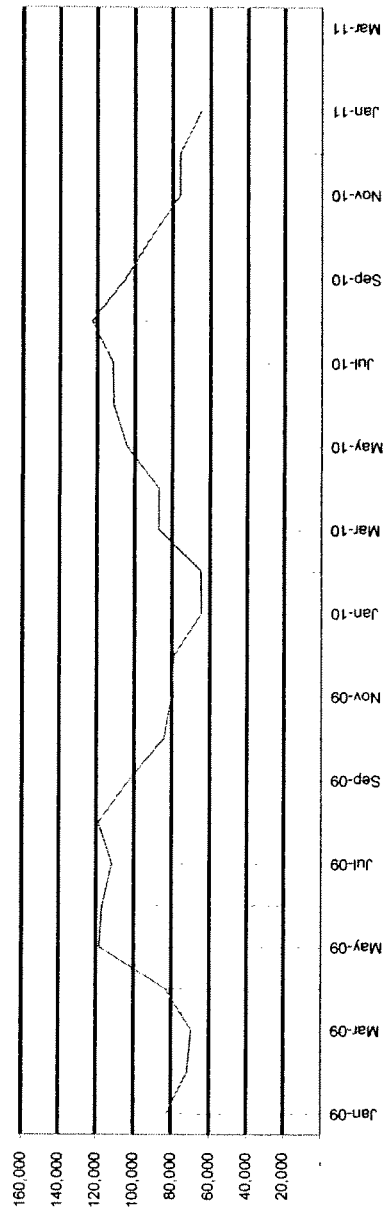
### Hauled Sludge Summary



### Electric Cost



### Kilowatts Used



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



**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						
Feb-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			11.3	1.007	7.6				6.3		7.3		
2	7.4			5.8	1.006	7.8				7.6		4		
3	7.6			8.3	0.849	7.7			0.11	8.1		5.4		
4	7.5	247	220	9.6	1.003	7.7	4.9	5.8		7.9		6.1	98.0	97.4
5	7.4			9.6	1.121	7.7				7.7		5.6		
6	7.5			10.9	1.212	7.7				6.9		6.1		
7	7.3			11.7	1.122	7.7				5.7		9		
8	7.3			7.8	1.123	7.6				6.1		6.7		
9	7.4			9.3	1.063	7.7				7.2		5.9		
10	7.5			9.3	1.005	7.6			0.04	7.4		6.1		
11	7.5	333	346	9.5	1.091	7.7	5.1	7.4		7.2		5.8	98.5	97.9
12	7.4			9.2	1.142	7.6				6.3		6		
13	7.4			10.3	1.491	7.6				5.9		7.6		
14	7.4			10.3	1.989	7.7				5.3		8.7		
15	7.4			10.4	1.649	7.6				5.4		9		
16	7.4			10.2	1.232	7.6				5.8		9.9		
17	7.6			12.7	1.571	7.8			0.05	5.6		13.1		
18	7.5	192	162	12.5	1.339	7.9	2.8	4.8		5.7		13.5	98.5	97.0
19	7.4			12.6	1.196	7.8				5.9		12.4		
20	7.4			13.3	1.528	7.7				6.0		12.8		
21	7.4			13	1.312	7.7				5.3		13.1		
22	7.5			11.3	1.322	7.8				5.9		10.8		
23	7.4			11.6	1.083	7.8				6.5		10.7		
24	7.5			10.6	1.201	7.7			0.04	5.8		10.6		
25	7.5	238	222	12.3	2.820	7.6	4.0	4.8		6.1		12.3	98.3	97.8
26	7.3			11.3	1.490	7.7				7.5		9.8		
27	7.4			10.5	1.314	7.7				7.8		9.3		
28	7.4			11.2	1.846	7.6				5.9		10.1		
Total					37.127									
Avg		253	238	11	1.326		4.2	5.7	0.06	6.5	0.0	8.8	98.3	97.5
Min	7.3	192	162	6	0.849	7.6	2.8	4.8	0.04	5.3	0.0	4.0	98.0	97.0
Max	7.6	333	346	13	2.820	7.9	5.1	7.4	0.11	8.1	0.0	13.5	98.5	97.9

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				* Ambient Temp ° F	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability				
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C			
1		2.8	3,330	300	7.6	2.4	4,020	440	6.8	27		7:30
2		4.4	3,450	300	4.5	4.6	4,070	450	4.7	18	2	7:30
3		5.2	3,160	300	5.2	5.1	4,050	450	5.1	-2.6		7:30
4		6.1	3,330	300	5.6	5.7	4,080	540	5.8	8		7:30
5		5.9	3,430	300	6.3	5.7	4,120	500	6.8	18	0.2	7:30
6		3.1	3,750	340	8.1	3.8	3,970	440	7.9	34		7:30
7		1.5	3,970	390	10.2	3.1	3,810	360	9.6	31		7:30
8		2.4	3,800	340	6.8	4.3	3,960	450	7.2	11		7:30
9		4.3	3,760	330	6.9	5.3	3,710	370	7.2	14	0.15	7:30
10		5.2	3,750	330	6	5.8	3,960	390	5.9	-4		7:30
11		4.2	3,600	300	6.9	4.7	4,000	400	6.7	13		7:30
12		4.1	3,380	290	5.7	5.3	3,820	330	7.1	23		7:30
13		1.6	3,660	300	8.1	2.1	3,770	320	7.5	34		7:30
14		1.0	4,340	400	9.3	1.3	2,720	250	8.6	33		7:30
15		0.7	4,690	450	9.5	0.9	2,930	360	9.7	42		7:30
16		1.6	3,080	260	10.4	2.5	3,920	360	10	42		7:30
17		1.5	3,710	280	13.2	1.2	4,000	340	12.8	60		7:30
18		1.2	3,700	280	13	1.3	3,610	290	13.2	52		7:30
19		2.5	3,560	270	12.4	2.5	3,850	310	12.3	48		7:30
20		3.2	3,280	250	13	2.1	4,190	350	13.2	51		7:30
21		1.2	3,390	260	12.8	1.2	3,960	340	12.3	43	0.2	7:30
22		3.2	3,570	290	11.8	1.9	3,810	350	11.6	28		7:30
23		4.1	3,350	250	11.5	4	3,890	350	11.4	38	0.25	7:30
24		3.3	3,260	250	10.6	3.3	3,920	330	10.8	45	0.2	7:30
25		3.1	3,710	280	12.2	3.6	4,000	330	12.4	32	1	7:30
26		5.9	3,330	270	10.1	6.4	3,590	280	9.7	37		7:30
27		5.8	3,290	240	9.3	5.2	3,900	400	9	45		7:30
28		1.6	3,580	300	10.7	1.9	3,580	300	10.4	39	0.75	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) Frank Hendricks	SIGNATURE <i>Frank Hendricks</i>	PHONE # (573)365-0455	DATE 3/2/2011
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE <i>Gary Hutchcraft</i>	PHONE # (573)365-0455	DATE 3/2/2011

\*Required Daily (Monday - Friday)

\*\*Required 1/week







# STAFF CREATED DRAFT FOR DISCUSSION ONLY

## **The Joint Sewer Board of the Cities Of Lake Ozark and Osage Beach New Service Area Connections Policy<sup>1</sup>**

Adopted/Latest Revision March 7, 2011

Inquiries about new connections, through the City of Lake Ozark please call the City Administrator for the City of Lake Ozark at 573-365-5378.

Inquiries about new connections, through the City of Osage Beach please call the City Administrator for the City of Osage Beach at 573-302-2000

### **Welcome to the Lake of the Ozarks!**

The Joint Sewer Board of the cities of Lake Ozark and Osage Beach encourages environmentally responsible new development in the lake region and takes seriously its obligation to operate the plant in a responsible and professional manner and to balance that obligation with its desire to see the lake region as a whole, continue to develop and prosper. We have adopted this Policy as a guide for new developers outside either city, who seek to connect to the plant either through a city or directly. We encourage developers to call us directly at the beginning of the process so we can move forward in a cooperative and mutually beneficial manner.

### Overview of the Process

1. A simultaneous application is submitted by the applicant to the City through which connection is proposed, and to the Joint Sewer Board.
2. Staff will review the Application and determine whether the Application is complete and whether the proposed project is eligible under the policy.
3. Staff confirms to the Joint Sewer Board that the application meets the requirement of this policy and any individual requirements of the individual city through which the new connection is proposed.
4. The individual city through which the new connection is made approves the agreement by ordinance.

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<sup>1</sup> Important Notice and Disclaimer This policy is adopted by The Joint Sewer Board of the Cities of Lake Ozark and Osage Beach to assist developers in the consideration of whether a prospective project outside the boundaries of either city is eligible for connection to the Joint Sewer Board's Waste Water Treatment Plant. The Joint Sewer Board reserves the right to reject any project or to waive any non-conformance to these policies.

## **STAFF CREATED DRAFT FOR DISCUSSION ONLY**

5. The Joint Sewer Board considers approval of the proposed agreement.

### **JOINT SEWER BOARD CORE VALUES**

These are the core values of the Joint Sewer Board in the operation of the plant and consideration of the addition of new users to the system.

1. Protect the plant infrastructure
2. Preserve adequate cash flow to operate and maintain the plant
3. Protect and serve the existing customers efficiently
4. Service future development within each city
5. Contribute to lake water quality efforts by safely and completely treating all acceptable effluent in the Lake of the Ozarks region.
6. Assure adequate future capacity for growth in the lake region

#### Application Overview

##### 1. APPLICATION:

Submission. Not less than five (5) copies of the completed Application should be submitted to the City Administrator.

Preliminary Determination of Completeness. The Application is reviewed by City staff to determine if it is complete. If the Application is determined to be incomplete by City staff or if additional information is needed the applicant will be notified that the Application is not complete, and asked to supply such additional information as may be required, for engineering, financial, legal or planning and development concerns.

##### 2. STAFF REVIEW:

The City's departments of Engineering, Public Works, Finance, Law, Planning and Administration will conduct a review of the Application and, when deemed appropriate, seek a review by other professionals as the city may require.

Prior to making a recommendation to the Joint Sewer Board, the City staff may require an independent feasibility study by an expert of the City's choosing. The Applicant shall pay the cost of such study.

Applications which are determined to be incomplete or do not conform to this policy or the City's policy will not be considered by the Joint Sewer Board. Applicants are responsible for monitoring the status of their applications.

## **STAFF CREATED DRAFT FOR DISCUSSION ONLY**

### 3. BOARD OF ALDERMEN:

The Board of Aldermen for each City may, in its discretion, convene a study session on the Application or hold a public hearing before consideration of an ordinance approving the connection requested in the application. The recommendation of the Joint Sewer Board may be considered, or amended by the Board of Aldermen.

### 4. JOINT SEWER TREATMENT PLANT BOARD CONSIDERATION:

The Joint Sewer Board may have a study session on the Application and may make a recommendation to the City concerning the application. After the city adopts an ordinance approving a connection, the Joint Sewer Board may consider, approve, deny or recommend amendments to the connection agreement.

## **POLICY FOR CONNECTION OF NEW SERVICE AREAS TO THE LAKE OZARK / OSAGE BEACH JOINT SEWER TREATMENT PLANT**

### 1. **FEE FOR CONNECTION TO THE PLANT**

The fee for connection to the plant shall be a one-time, capacity charge based on the anticipated volume of wastewater flows from the applicant's development.

The charge rate will be based on the current estimated capacity replacement price expressed in \$/gallon/day of installed treatment plant cost. This fee will be established by the Joint Board at the time of application and will be based on engineering estimates for replacement capacity at the time of approval of the connection agreement. All connection fees shall be paid directly to the Joint Board when the connection agreement is executed.

### 2. **CONNECTIONS THAT CONNECT DIRECTLY TO THE SEWER PLANT**

For a dedicated sewer line that reaches the plant directly without connection through the sewerage infrastructure of either city, applicant shall pay monthly fee to the Joint Sewer Board, in addition to No. 1 above, which shall be 1.15 times the outside the city rate for monthly sewage service of the city nearest the development.

### 3. **LIMITATIONS ON NEW DEVELOPMENT / BUILD OUT SCHEDULE**

## **STAFF CREATED DRAFT FOR DISCUSSION ONLY**

The applicant shall adhere to the limitations in the connection agreement that may restrict or limit new development and construction in the applicant's service area and shall not issue any permits to connect in excess of those listed in the agreement without the express consent of the Joint Sewer Board and the City through which the sewage flows. Any expansion of development beyond the original agreement will result in a purchase of new capacity as may be decided by the Joint board at the time of the expansion.

### **4. LIMITATIONS OF QUANTITY AND QUALITY OF FLOW**

The applicant shall adhere to the limitations and permissions concerning the quantity and quality of the flow sent to the Joint Sewer Treatment Plant as set out in the connection agreement. Applicant shall not issue any permits to connect in excess of those listed in the agreement without the express written consent of the Joint Sewer Board and the City affected. The design and construction of applicant's system shall provide all necessary facilities for equalization of the flow of sewage to level the demand on the capacity of the Joint Sewer Treatment Plant and ensure that the impact of the applicant's system will not exceed the agreed upon flow at any time. This may include holding tanks, equalization basins or other infrastructure built into the applicant's system, necessary to minimize flow from the applicant's system during periods of high demand on the capacity of the plant. The control of this infrastructure, which part of the applicant's system, must be accessible by the attached city and the Joint Sewer Board or its agents as necessary to achieve the equalization of the flow of sewage.

### **5. APPROVAL OF DESIGN**

The applicant shall adhere to the limitations and permissions for approval of design of applicant's system as set out in the connection agreement

### **6. REMEDIES**

For violation of the agreement which damages the physical plant, specifically including provision concerning the quantity or quality of the effluent flow in the conclusion in that flow of /grease/hazardous wastes etc. the remedies available to the joint board will include any or all of the following

- i. Physical shutoff of the flow

## **STAFF CREATED DRAFT FOR DISCUSSION ONLY**

- ii. Requirement of applicant to cure problem
- iii. Financial penalties of 1.25 times cost to Joint Sewer Board to remedy the matter.

### **7. PLANT OWNERSHIP**

Nothing in any agreement may be in any way construed as an ownership interest by applicant or any other entity or any user acting on behalf of applicant or claiming any interest by virtue of connection to or use of applicant's system. Further, any new service area agreement with any applicant may not in any way diminish or abrogate the ownership interests of the Cities of Lake Ozark and Osage Beach. All applicants begin, continue and remain as arms-length customers of the Joint Sewer Board for the life of the connection.

### **8. INDEMNIFICATION AND HOLD HARMLESS**

Applicant, shall at all times beginning with the opening of the connection between the applicant's system and either City sewage system or the Joint Sewer Treatment Plant directly, maintain adequate insurance against any loss (including but not limited to any economic or non-economic and environmental damage) caused by the applicant's system or users to the property of either city or the Joint Sewer Treatment Plant. The Applicant shall indemnify and hold harmless the Joint Sewer Board and the Cities of Lake Ozark and Osage Beach from any and all harm caused by the applicant or its operations, both immediate and consequential damages, both upstream from the plant and downstream. This obligation shall last for the life of the connection, the cities and the Joint Sewer Board shall be listed as an additional insured on the general/environmental/liability insurance policy or policies of the applicant.

**The Joint Sewer Board of the Cities Of  
Lake Ozark and Osage Beach**

APPLICATION FOR CONNECTION FOR SERVICE

PROJECT NAME:

APPLICANT:

ADDRESS:

PHONE:

FAX:

EMAIL:

CONTACT PERSON:

Application Format: On a separate sheet of paper please answer the following questions. Please type each question prior to the applicable response.

- (1) In no more than three pages provide relevant information on the applicant's background and development experience and financial ability to successfully complete the project. Include resumes of key individuals assigned to the project.
- (2) Identify the applicant's consultants involved or proposed to be involved in the project noting relevant experience on similar projects (i.e., civil engineer, land use planner, applicant's legal counsel, applicant's financial advisor).
- (3) Describe the proposed project, including the size and scope and phasing of the proposed project. Specifically outline residential development, if any, to be included in the project.
- (4) Define the boundaries of the proposed service area by address and locator number(s). Include a map of the proposed service area.
- (5) Identify the property which is currently in the control of the applicant via ownership or option. If the property is under an option contract please note the option expiration date.
- (6) Is the proposed development consistent with all applicable infrastructure, development, or comprehensive plans?
- (7) State the need and justification for this connection.
- (8) Identify sources, amounts, and status of all debt financing and/or equity funding available to complete the project. Does the applicant anticipate the debt will be privately financed by the construction lender or developer or publicly sold?

## **STAFF CREATED DRAFT FOR DISCUSSION ONLY**

(9) Briefly describe the “environmental and quality of life” benefits of the proposed project to the Lake area.

(10) If the applicant’s system is to be managed, administered or maintained by someone other than a direct employee of the applicant, please provide the name qualifications and direct operator’s contact information for the individual/vendor responsible for the system.

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