

**OSAGE BEACH/LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
July 19, 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

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5. OLD BUSINESS

6. NEW BUSINESS

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 16, 2011 @ 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK - OSAGE BEACH
Joint Sewer Board
MINUTES OF MEETING
June 21, 2011

CALL TO ORDER: Mayor Penny Lyons called the meeting to order @ 5:15 P.M., at Lake Ozark City Hall.

ROLL CALL:

Committee Persons Present:

Mayor Penny Lyons, OB
Mayor Johnnie Franzekos, LO
Nancy Viselli, City Administrator, OB
Dave Van Dee, City Administrator, LO
Don Langley, Alderman, LO
Ron Schmitt, Alderman, OB

Committee Members Absent:

Rick King, Public Works Director, OB
Matt Michalik, Public Works Director, LO
Gary Hamner

Others Present:

Gary Hutchcraft, Plant Manager
Julie Huttenlocker, Joint Sewer Clerk
Ed Rucker, Osage Beach City Attorney
Karri Bell, Treasurer
John Olivarri, Osage Beach Alderman

ADOPTION OF PREVIOUS MINUTES:

Mayor Penny Lyons asked for a motion to approve the June 21, 2011 Minutes. City Administrator Nancy Viselli noted that the "a" was missing out of the word *May* under *Adoption of Minutes*, with that change City Administrator Viselli made a motion to approve the minutes; second by Mayor Johnnie Franzekos. All present voted aye, motion carried.

BILLS:

Treasurer Karri Bell stated that she would like to make an amendment to the Bills List; she requested to add a bill from Mauer for \$126.83. A motion was made by Mayor Johnnie Franzekos to add this bill to the Bills List; second by Alderman Don Langley. All present voted aye, motion carried.

Mayor Johnnie Franzekos made a motion to approve the Bills List, 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 May 2011 was 1.478 mgd. We had 11.8 inches of precipitation measured at the WWTP in May 2011.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 2.1 mg/l and 1.3 mg/l respectively for May 2011. This represented better than a 99.3% or better removal.

The MLSS combined average for both aeration basins was 4,440/l in May 2011. The total dry weight sludge inventory for May 2011 totaled 282,108 pounds. Plant Personal was able to land apply 24 loads of biosolids in May 2011.

Alliance Member Gary Anger stated that the EDI Report came in May 25th, however due to the payback time and cost they were going to hold off at this time.

Mr. Anger also stated that the power usage has increased from last year; it has been at a 6% increase the first four months of this year, Alliance Member Hutchcraft explained the possible cause of why it may have increased which was due to the rain we had received. Alliance Members believe that it will go back down. They will keep Members posted if it continues to increase.

Mr. Hutchcraft informed Members that the aerator # 5 has been kicking off during the night. Mr. Hutchcraft explained that they now have a staff member electrician on board that had found that behind the three- phase busbar, one leg had almost melted in two, Hutchcraft stated that they had the part to replace it at the Plant, and that they would have to shut the Plant down for a few hours to repair it.

Mr. Anger explained that a 16 Channel Alarm Dialer was budgeted for \$8000.00 for this year. Mr. Anger stated that they got a bid from three different companies, but didn't actually go out for bids, and what they found was that they are going to be over the \$5,000.00 mark which will require going out for bids.

Mr. Anger informed Members that included in the three bids were two automatic alarm dialers and one being a wireless alarm, Mr. Anger explained the difference and Members discussed which would be more beneficial to the Treatment Plant in the long run. Members agreed Alliance should go out for bids for the wireless system before a decision is made

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

OLD BUSINESS:

No Discussion Occurred.

NEW BUSINESS:

A. Magruder Permit Application:

Osage Beach City Attorney Ed Rucker advised the Board of the current status of the Permit and informed Members that a second permit has been submitted. Mr. Rucker also explained that he and the Attorney for the Joint Sewer Board, Mr. Steven Mauer, will continue to work on the case and will advise the Board of the ongoing status. Mr. Rucker also indicated that if any future action is needed the Board would be advised.

Mayor Penny Lyons also discussed the change in the House Bill number 89, under the Clean Water Act, that under any mining permit the burden of proof is no longer on the Applicant.

DISCUSSION:

No Discussion Occurred.

ADJOURNMENT

Osage Beach Mayor Penny Lyons adjourned meeting at 5:46 pm.

Next Meeting: July 19, 2011 at 5:15 P.M at Lake Ozark City Hall.

Penny Lyons, Mayor

Julie Huttenlocker, Joint Sewer Clerk

JOINT SEWER BOARD

BILL LIST

July 19, 2011

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 30,291.88
OPERATING FUND BILLS TO BE PAID:	\$ 7,892.39
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 38,184.27

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4170	3109	Alliance Water Resources, Inc.	Management Fee	\$ 21,787.07
4185	3110	Ameren Missouri	Electric July 2011	\$ 8,504.81
TOTAL				\$ 30,291.88

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3111	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4010	3112	Equipment Replacement Fund	New Basin -Loan Payment	\$ 2,330.12
4020	3113	Alliance Water Resources, Inc.	Repair/Main	\$ 85.10
4160	3114	Alliance Water Resources, Inc.	Waste Hauling Fees	\$ 1,920.00
4240	3115	Lake Sun Leader	bid for auto dialer	\$ 90.00
				\$ 7,892.39

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***208 South Keene Street****Columbia, Missouri 65201****(573) 874-8080 Fax (573) 443-0833****SOLD TO:****Lake Ozark/Osage Beach Joint Utility Board****c/o Karri Bell****City of Osage Beach****1000 City Parkway****Osage Beach, MO 65065****INVOICE****Invoice No: 4940****Invoice Date: 01-Jul-11****Customer No: 20220****Terms: 30 days**

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



Please Return This Portion With Your Payment.

AMOUNT DUE	DUE DATE
\$8,176.38	Jul 21, 2011
AMOUNT PAYABLE AFTER Aug 1, 2011	ACCOUNT NUMBER
\$8,299.03	45800-05832

Amount Enclosed \$ _____



>00533 0074803 0001 092139
 ALLIANCE WATER RESOURCES INC
 ACCTS PAYABLE
 206 S KEENE ST
 COLUMBIA, MO 65201

00533 1 MB 0.390 MBX 630



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

20600000 0045800058302 000008176380 000008176380

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	Jul 11, 2011
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TOTAL AMOUNT DUE BY	Jul 21, 2011	\$8,176.38
DELINQUENT AFTER	Aug 1, 2011	\$8,299.03

Payment Received on Jun 16, 2011

\$7,814.02

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	06/07-07/07	30	5252.0000	5907.0000	655.0000	160.0000		104800.0000	A
Peak kW	11673321	06/07-07/07	30	0.0000	1.2160	1.2160	160.0000		194.5600	A

Service To				SUMMARY				Service To			
Total kWh	07/07/2011	104800.0000		Peak kW	07/07/2011	194.6000					
Billing Demand	07/07/2011	194.6000		Total Billing Demand	07/07/2011	194.6000					

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service				Service From 06/07/2011 To 07/07/2011			
Demand Charge	194.60	kW	@	\$4.15000000		\$807.59	
Energy Charge/Hours Used	29,190.00	kWh	@	\$0.08890000		\$2,594.99	
Energy Charge/Hours Used	38,920.00	kWh	@	\$0.06690000		\$2,603.75	
Energy Charge/Hours Used	36,690.00	kWh	@	\$0.04500000		\$1,651.05	
Customer Charge						\$79.89	
Rider FAC Adjustment	104,800.00	kWh	@	\$0.00419000		\$439.11	
Total Service Amount						\$8,176.38	

Current Amount Due	\$8,176.38
Prior Amount Due	\$0.00
Total Amount Due	\$8,176.38

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





Please Return This Portion With Your Payment.

☐ Pure Power

AMOUNT DUE	DUE DATE
\$328.43	Jul 21, 2011
AMOUNT PAYABLE AFTER AUG 1, 2011	ACCOUNT NUMBER
\$333.36	55800-05920

Amount Enclosed \$ _____

>00533 0074803 0001 092139
ALLIANCE WATER RESOURCES INC
ACCTS PAYABLE
206 S KEENE ST
COLUMBIA, MO 65201

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

90633000 0055800059200 000000328430 000000328430

Keep This Portion For Your Records

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

BILL DATE	Jul 11, 2011
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TOTAL AMOUNT DUE BY	Jul 21, 2011	\$328.43
DELINQUENT AFTER	Aug 1, 2011	\$333.36

Payment Received on Jun 16, 2011

\$62.91

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	56982621	06/07-07/07	30	28744.0000	31965.0000	3221.0000	1.0000		3221.0000 A	
Peak kW	56982621	06/07-07/07	30	0.0000	64.9720	64.9720	1.0000		64.9720 A	

Total kWh Service To 07/07/2011

3221.0000

SUMMARY

Service To

METERED ELECTRIC SERVICE BILLING

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

Service From 06/07/2011 To 07/07/2011

Total Energy Charge	3,221.00 kWh @ \$.09200000	\$296.33
Customer Charge		\$18.61
Rider FAC Adjustment	3,221.00 kWh @ \$.00419000	\$13.49
Total Service Amount		\$328.43

\$328.43

Current Amount Due	\$328.43
Prior Amount Due	\$0.00
Total Amount Due	\$328.43

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.



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: 4969

Invoice Date: 01-Jul-11

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	The Home Depot - 1 Invoice - 50%	\$85.10
TOTAL DUE		\$85.10



More saving.
More doing.™

4030 HWY 54
OSAGE BEACH, MO 65065 (573)348-0082

3027 00099 43812 06/14/11 11:56 AM
CASHIER BARBARA - BAJ95W

641817000533	RESPNTPEST <A>	29.97
020066776589	RUSTO SPRAY <A>	
603.98		23.88
028076659038	RLR LITE 1/2 <A>	8.97
725636090118	BRUSH <A>	2.47
725636090026	BRUSH <A>	2.47
725636090019	BRUSH <A>	2.47
047242724295	24" 2 IN 1 F <A>	99.96

SUBTOTAL	170.19
SALES TAX	12.73
TOTAL	\$182.92

XXXXXXXXXXXX6759 HOME DEPOT 182.92
AUTH CODE 014560/0999450 TA
P.O.#/JOB NAME: GARY

ALLIANCE WATER RESOURCES
WATER RESOURCES ALLIANCE

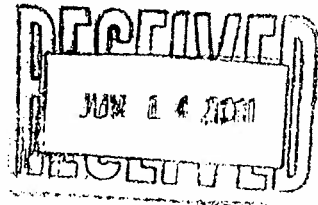


3027 99 43812 06/14/2011 9293

RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON
A 1 90 09/12/2011

THE HOME DEPOT RESERVES THE RIGHT TO
LIMIT / DENY RETURNS. PLEASE SEE THE
RETURN POLICY SIGN IN STORES FOR
DETAILS.

GUARANTEED LOW PRICES
LOOK FOR HUNDREDS OF
LOWER PRICES STOREWIDE



GL Acct#: 6705-20¹97.821220-20¹85.10

Signature: Gary Hultcraft

Date: 6/14/11

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: 4937

Invoice Date: 30-Jun-11

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Jun-11	
	1 Hauled Waste Load @ \$40.00 each	\$40.00
	22 Hauled Waste Loads @ \$50.00 each	\$1,100.00
	13 Hauled Waste Loads @ \$60.00 each	\$780.00
TOTAL DUE		\$1,920.00

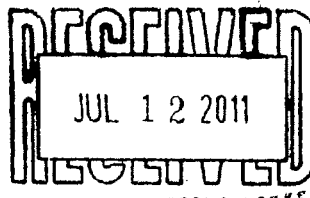
ORIGINAL INVOICE



LAKE SUN LEADER
LIBERTY GROUP MO HOLDINGS, INC.
Legal Advertising Invoice

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

JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049
ATTN: GARY H.
RE: BID: AUTODIALER PROJ.
PN: 16647
ACCT# 86691



AFFIDAVIT OF PUBLICATION

(State of Missouri)

) SS

(County of Camden)

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

FROM: 07/08/2011
VOL 132 NO 131

TO: 07/08/2011
DAY OF JULY 08, 2011

SIGNED: _____
JOHN TUCKER (PUBLISHER)

PUBLICATION FEE DUE: \$ 90.00

ORIGINAL INVOICE

SUBSCRIBED AND SWORN TO BEFORE ME THIS
08 DAY OF JULY, 2011:

SIGNED: _____ (NOTARY PUBLIC)

DEBBIE FRANKLIN
NOTARY PUBLIC STATE OF MISSOURI, CAMDEN COUNTY

MY COMMISSION EXP. APRIL 29, 2013

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

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

Account Number	Account Name	6/30/2011					Percent YTD
		2009 Actual	2010 Actual	2011 Budget	2011 Actual as of 6/30/2011	2011 June Revenue	
3020	Osage Beach	497,506.57	407,036.02	396,900.00	196,899.92	33,086.11	50%
3010	Lake Ozark	88,558.73	92,130.61	93,100.00	48,098.07	7,747.22	52%
3100	Interest	47.88	136.11	100.00	308.34	9.47	308%
3060	Waste Haulers' Fee	45,240.00	41,630.00	38,000.00	17,897.00	3,840.00	47%
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	263,203.33	44,682.80	50%
E/R Fund Income		1,183.30	1,645.40	1,000.00	715.89	11.23	72%
TOTAL INCOME		632,745.88	542,578.14	529,100.00	263,919.22	44,694.03	50%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2011**

Account Number	Account Name	2009 Actual	2010 Actual	2011 Budget	2011 Actual as of 6/30/2011	2011 June Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	42,000.00	20,803.02	3,467.17	50%
4010	ERF Repayment	27,961.44	27,961.44	27,961.44	13,980.72	2,330.12	50%
4020	**Maintenance & Repair	34,052.32	15,611.62	57,000.00	1,628.35	230.62	3%
4140	Insurance	16,305.00	16,211.00	17,000.00	17,127.00	17,127.00	101%
4150	Vehicle Repair/Maint	5,906.73	2,660.05	3,000.00	571.21	0.00	19%
4160	Haulers Fees to Contractor	8,600.00	8,000.00	8,000.00	5,786.00	2,030.00	72%
4170	Contract Management	308,837.65	312,836.20	265,000.00	135,802.16	21,787.07	51%
4185	Electric	0.00	0.00	65,000.00	24,647.48	12,969.16	38%
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	4,244.12	126.83	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	230,782.97	60,067.97	44%
	**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	232,305.97	60,067.97	43%
***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 Cleanse		4,000.00
			30,000.00				12,000.00
				Paid 03/11	Unbudgeted Lab Equip. Purchase		2,344.53
**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.						40,000.00
							57,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2010

Beginning Balance	220,353.92
Income - Osage Beach	33,086.11
Income - Lake Ozark	7,747.22
Income - Other	0.00
Income - Waste Haulers' Fees	3,840.00
Interest - Checking	9.47
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-5,797.29
Expenses	-49,178.45
Ending Fund Balance	210,060.98
NOW Account - Central Bank	109,938.49
CD First National Bank, 1.00%, 07/10/11 #000049	100,249.32
Outstanding Checks:	-126.83
Deposit in Transit:	0.00
	210,060.98

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2010

Beginning Balance	202,224.54
Interest - Checking	11.23
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	208,033.06
NOW Account - First Bank	96,150.95
CD First National Bank, 1.00%, 07/10/11 #000048	111,882.11
Deposit in Transit	0.00
Outstanding Checks:	0.00
	208,033.06

**OPERATING FUND
BALANCE SHEET
6/30/2010**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	210,060.98		
ACCOUNTS PAYABLE	DUE TO E.R. FUND - BASIN		64,763.58	
EQUITY	FUND BALANCE		145,297.40	
TOTAL OPERATING FUND		210,060.98	210,060.98	-

**EQUIPMENT REPLACEMENT FUND
BALANCE SHEET
6/30/2010**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	208,033.06		
ACCOUNTS RECEIVABLE	DUE FROM OPERATING FUND - BASIN	64,763.58		
EQUITY	FUND BALANCE		272,796.64	
TOTAL EQUIPMENT REPLACEMENT FUND		272,796.64	272,796.64	-

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 2/28/11			99,941.89
3081	Alliance Water Resources, Inc.	X	26,866.81	73,075.08
3082	ER Fund Transfer	X	3,467.17	69,607.91
3083	ER Fund Loan Payment	X	2,330.12	67,277.79
3084	Alliance Water Resources, Inc.	X	2,717.52	64,560.27
3085	Alliance Water Resources, Inc.	X	300.00	64,260.27
3086	Alliance Water Resources, Inc.	X	3,757.20	60,503.07
	Deposit	X		8,990.66
	Deposit	X		31,842.67
	Deposit	X		2,585.00
	Interest	X		9.17
	reconciled balance 3/31/11			103,930.57
3087	Alliance Water Resources, Inc.	X	21,787.07	82,143.50
3088	ER Fund Transfer	X	3,467.17	78,676.33
3089	ER Fund Loan Payment	X	2,330.12	76,346.21
3090	Alliance Water Resources, Inc.	X	4,394.66	71,951.55
3091	Alliance Water Resources, Inc.	X	1,200.00	70,751.55
	Deposit	X		8,292.96
	Deposit	X		32,540.38
	Deposit	X		2,712.00
	Interest	X		8.88
	reconciled balance 4/30/11			114,305.77
3092	Ameren Missouri	X	4,374.11	109,931.66
3093	Alliance Water Resources, Inc.	X	21,787.07	88,144.59
3094	ER Fund Transfer	X	3,467.17	84,677.42
3095	ER Fund Loan Payment	X	2,330.12	82,347.30
3096	Alliance Water Resources, Inc.	X	324.40	82,022.90
3097	Alliance Water Resources, Inc.	X	1,356.00	80,666.90
3097	Bryan Cave	X	373.11	80,293.79
3099	Ameren Missouri	X	5,092.23	75,201.56
	Deposit	X		32,751.11
	Deposit	X		8,082.22
	Deposit	X		4,060.00
	Interest	X		9.71
	reconciled balance 5/31/11			120,104.60
3100	Travelers	X	17,127.00	102,977.60
3101	Alliance Water Resources, Inc.	X	21,787.07	81,190.53
3102	Ameren Missouri	X	7,876.93	73,313.60
3103	ER Fund Transfer	X	3,467.17	69,846.43
3104	ER Fund Loan Payment	X	2,330.12	67,516.31
3105	Alliance Water Resources, Inc.	X	230.62	67,285.69
3106	Alliance Water Resources, Inc.	X	2,030.00	65,255.69
	Deposit	X		33,086.11
	Deposit	X		7,747.22
	Deposit	X		3,840.00
	Interest	X		9.47
	reconciled balance 6/30/11			109,938.49



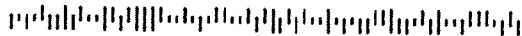
Central Bank of Lake of the Ozarks

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

001911

Return Service Requested

Effective 7/21/11, depending on the type of check that you deposit, the first \$200 may be available for withdrawal on the first business day after the day of your deposit in accordance with our Funds Availability Policy.



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

Period 06/01/2011-06/30/2011 Page 1 of 2

Web Address
www.cbolobank.com

M 000007297 M 7

Your Financial Summary on June 30, 2011

Account Balances & Other Assets

Checking	\$ 109,938.49
Total	\$ 109,938.49

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 Beginning Balance May 31, 2011 \$ 120,104.60

Deposits

June 17 Deposit	7,747.22
June 17 Deposit	33,086.11
June 23 Deposit	3,840.00
June 30 Interest Earned	9.47

Total **+\$ 44,682.80**

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3100	June 15	17,127.00	3104	June 24	2,330.12
3101	June 17	21,787.07	3105	June 23	230.62
3102	June 17	7,876.93	3106	June 23	2,030.00
3103	June 24	3,467.17			

Total **-\$ 54,848.91**

Ending Balance June 30, 2011 **\$ 109,938.49**

Number of days since last statement/interest cycle 30
Beginning and ending dates for calculation of statement/interest cycle are 06/01/2011 through 06/30/2011
Average collected balance 115,218.00
Interest rate 0.10%
Annual percentage yield earned 0.10%

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

				reconciled balance 7/31/10	57,195.09
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	61,359.01
	Interest	X		7.76	61,366.77
	Deposit	X		5,797.29	67,164.06
				reconciled balance 9/30/10	67,164.06
	Interest	X		8.12	67,172.18
	Deposit	X		5,797.29	72,969.47
				reconciled balance 10/31/10	72,969.47
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	57,027.32
	Interest	X		7.65	57,034.97
	Deposit	X		5,797.29	62,832.26
				reconciled balance 12/31/10	62,832.26
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	67,114.79
	Interest	X		8.03	67,122.82
	Deposit	X		5,797.29	72,920.11
				reconciled balance 2/28/11	72,920.11
	Interest	X		9.67	72,929.78
	Deposit	X		5,797.29	78,727.07
				reconciled balance 3/31/11	78,727.07
	Interest	X		9.45	78,736.52
	Deposit	X		5,797.29	84,533.81
				reconciled balance 4/30/11	84,533.81
	Interest	X		11.33	84,545.14
	Deposit	X		5,797.29	90,342.43
				reconciled balance 5/31/11	90,342.43
	Interest	X		11.23	90,353.66
	Deposit	X		5,797.29	96,150.95
				reconciled balance 6/30/11	96,150.95



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

009 00010 26

ACCOUNT:

DOCUMENTS:

100395311

1

PAGE:

06/30/2011

1

11

82

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

THANK YOU FOR YOUR BUSINESS!

BUSINESS MMDA ACCOUNT 100395311

LAST STATEMENT 05/31/11 90,342.43

2 CREDITS 5,808.52

DEBITS .00

THIS STATEMENT 06/30/11 96,150.95

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
06/23 5,797.29

OTHER CREDITS

DESCRIPTION
INTEREST

DATE
06/30

AMOUNT
11.23

I N T E R E S T

AVERAGE LEDGER BALANCE: 91,888.37 INTEREST EARNED: 11.23
AVERAGE AVAILABLE BALANCE: 91,115.40 DAYS IN PERIOD: 30
INTEREST PAID THIS PERIOD: 11.23 ANNUAL PERCENTAGE YIELD EARNED: .15
INTEREST PAID 2011: 57.95

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	*

*** CONTINUED ***

NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
 CERTIFICATE OF DEPOSIT INTEREST RATE BIDS

MATURITY DATE:

FINANCIAL INSTITUTION	CONTACT	3 MONTH 6 MONTH		RATE	RATE	12 MONTH	RATE
CENTRAL BANK			0.40	0.50			0.80
	348-2761						
1ST NATIONAL BANK	Shawna		0.60	0.90			1.10
APY	348-3171						
1ST BANK OF THE LAKE	Sharon		0.10	0.25			0.65
APY	348-2265						
GREAT SOUTHERN	Celeste		0.30	0.71			0.91
1-800-749-7113	348-1795						
US BANK							
APY	348-1705		0.05	0.05			0.10



**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 June 2011

Submitted by Alliance Water Resources, Inc. for the

July 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	1.1	0.4	NA	< 20
Peak Day	1.2	0.6	8.0	< 20
Percent Removal	99.5	99.8	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 1.552 MGD or 52% of Permitted flow with Lake Ozark contributing 17% of the total flow and Osage Beach contributing 83%. 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 94669 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 78 tanker loads of bio-solids during the month equivalent to a total of 288,600 gallons and 85,043 pounds dry weight solids.

216,589 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 435,625 gallons with a level of 3.5 feet in Tank 1 and 5.0 feet in Tank 2.

WASTEHAULERS

The plant received 36 loads of septage during the month totaling 96,000 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 had a UV bulb go out on the 14th and troubleshot it to make sure it was a bad bulb and changed it out on the 16th.
- We have been steam cleaning the pipe gallery in the RAS basement throughout the month in preparation of painting the piping, valves and pumps.
- We checked out why the #5 aerator has been shutting down on the 21st and found that one of the 3 phase buss bars had gotten really hot and melted the connector to the bar. We removed the bad buss bar and connector and replaced it with the spare set that was in an unused portion of the main panel on the 28th.

SAFETY

- We conducted our monthly routine Safety Meeting on Laboratory Testing / Hazards on the 14th of June.

REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 8th of July.
- We received our Annual Wet Test sample results on the 5th and we passed. (see attachment)
Mailed a copy to MDNR on the 8th of July with the DMR.

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 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-Jun		0.237	1.074	1.311	18.1	81.9						
2-Jun		0.208	0.958	1.166	17.8	82.2						
3-Jun		0.219	1.080	1.299	16.9	83.1	258	250	260	206	244	252
4-Jun		0.242	1.166	1.408	17.2	82.8						
5-Jun		0.280	1.324	1.604	17.5	82.5						
6-Jun		0.264	1.179	1.443	18.3	81.7						
7-Jun		0.230	1.051	1.281	18.0	82.0						
8-Jun		0.243	1.132	1.375	17.7	82.3						
9-Jun		0.218	1.064	1.282	17.0	83.0						
10-Jun		0.229	1.250	1.479	15.5	84.5	218	248	235	146	220	222
11-Jun		0.277	1.397	1.674	16.5	83.5						
12-Jun		0.304	1.391	1.695	17.9	82.1						
13-Jun		0.271	1.229	1.500	18.1	81.9						
14-Jun	1	0.243	1.300	1.543	15.7	84.3						
15-Jun	0.3	0.248	1.386	1.634	15.2	84.8						
16-Jun		0.214	1.131	1.345	15.9	84.1						
17-Jun		0.246	1.215	1.461	16.8	83.2	224	226	230	152	206	206
18-Jun	0.5	0.289	1.440	1.729	16.7	83.3						
19-Jun	1	0.358	1.733	2.091	17.1	82.9						
20-Jun		0.318	1.399	1.717	18.5	81.5						
21-Jun		0.261	1.250	1.511	17.3	82.7						
22-Jun		0.246	1.141	1.387	17.7	82.3						
23-Jun		0.241	1.189	1.430	16.9	83.1						
24-Jun		0.260	1.259	1.519	17.1	82.9	232	226	250	158	186	204
25-Jun		0.305	1.659	1.964	15.5	84.5						
26-Jun	0.6	0.361	1.731	2.092	17.3	82.7						
27-Jun	1	0.305	1.652	1.957	15.6	84.4						
28-Jun		0.257	1.367	1.624	15.8	84.2						
29-Jun		0.224	1.306	1.530	14.6	85.4						
30-Jun		0.223	1.295	1.518	14.7	85.3						
SUM	4.4	7.821	38.748	46.569								
AVG		0.261	1.292	1.552	17	83	233	238	244	166	214	221
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

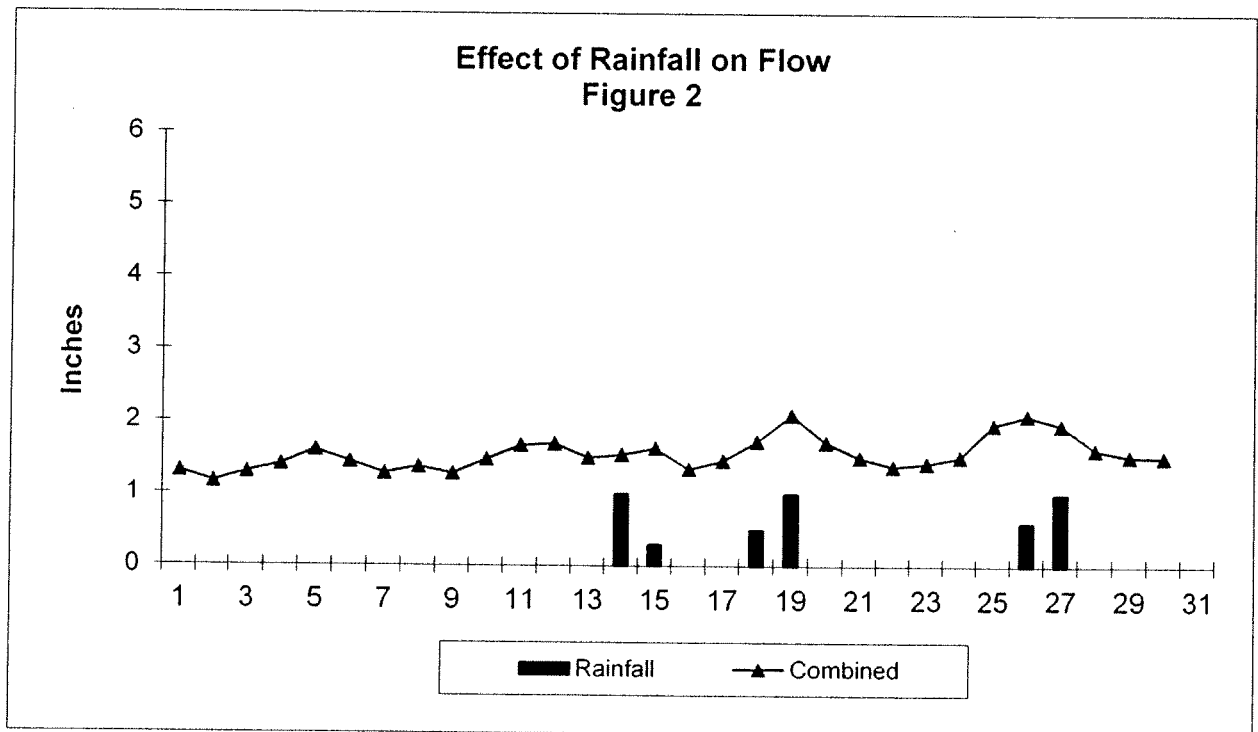
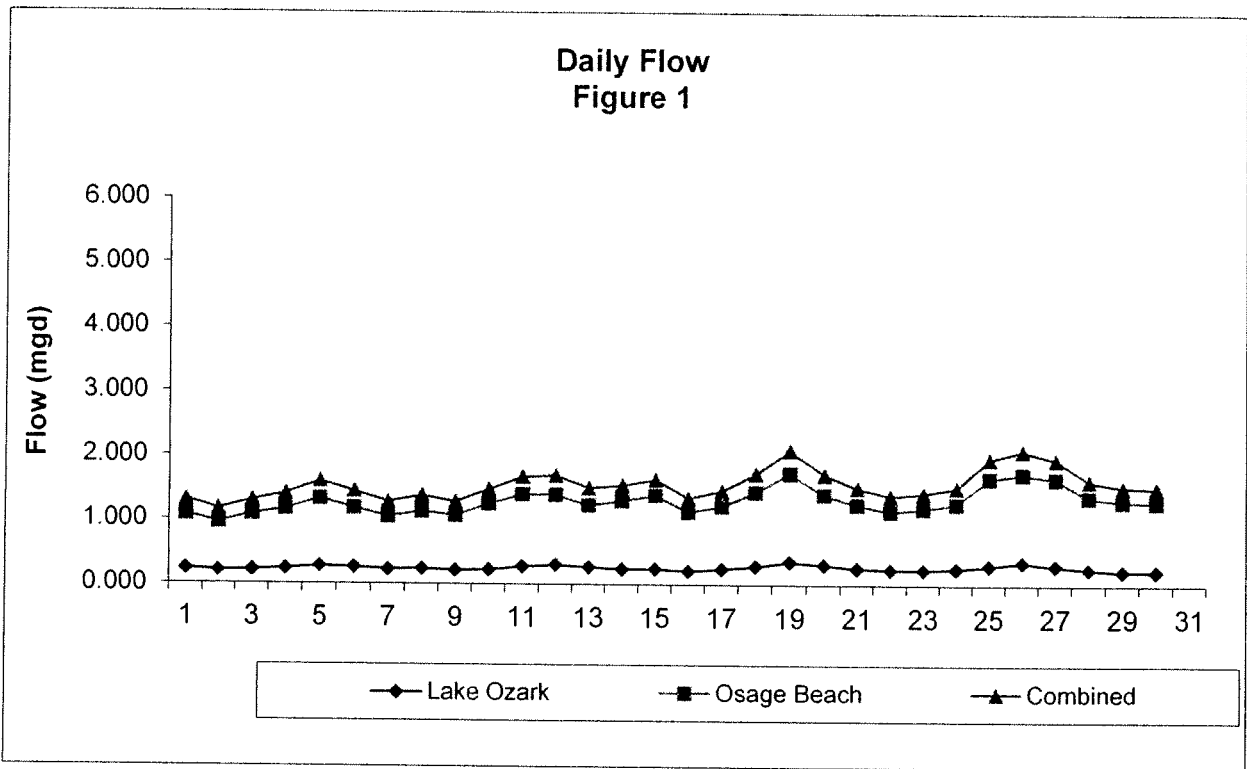
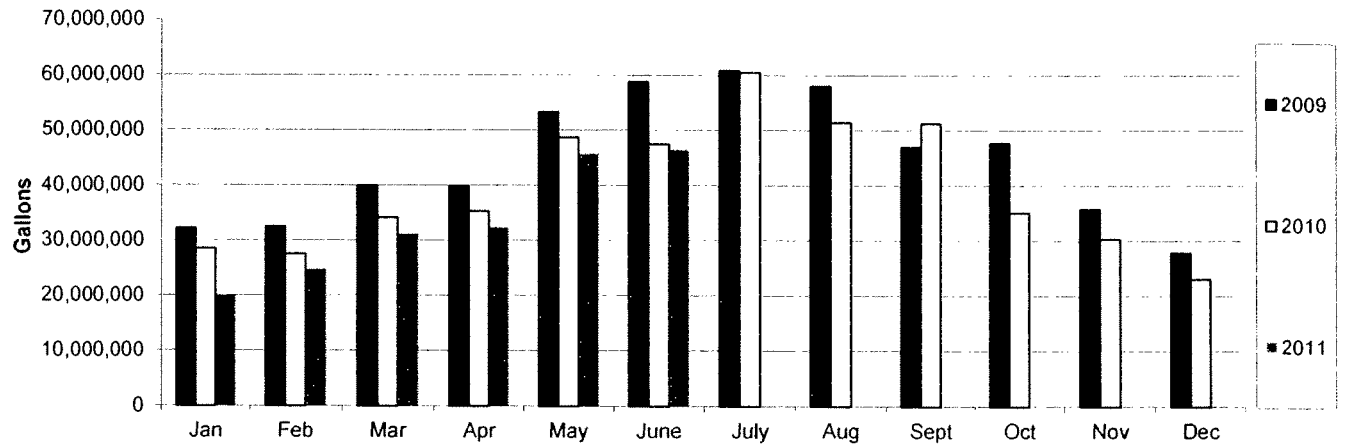


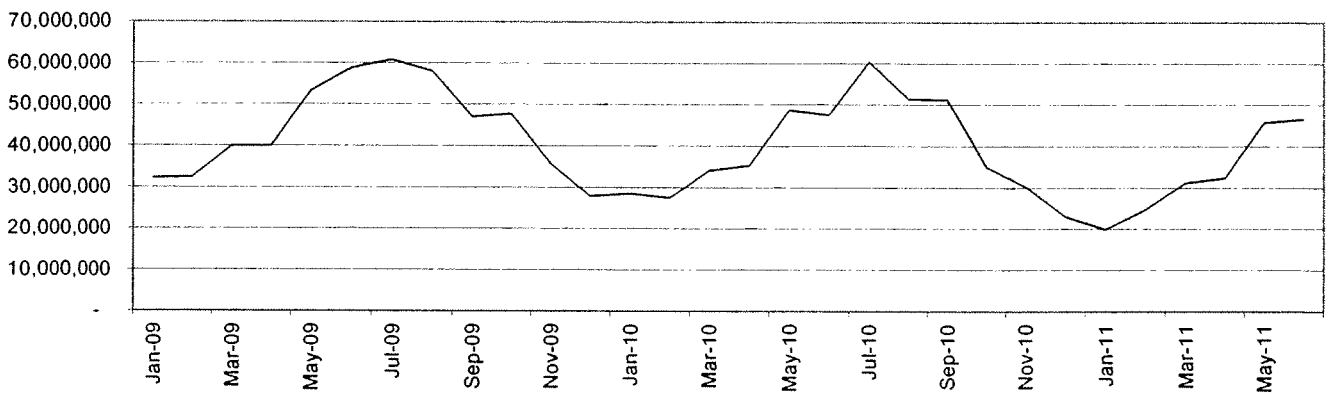
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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							
August							
September							
October							
November							
December							
	31.3	162,691,000	81%	38,110,000	19%	200,801,000	100%

Monthly Influent Flow
Figure 3A

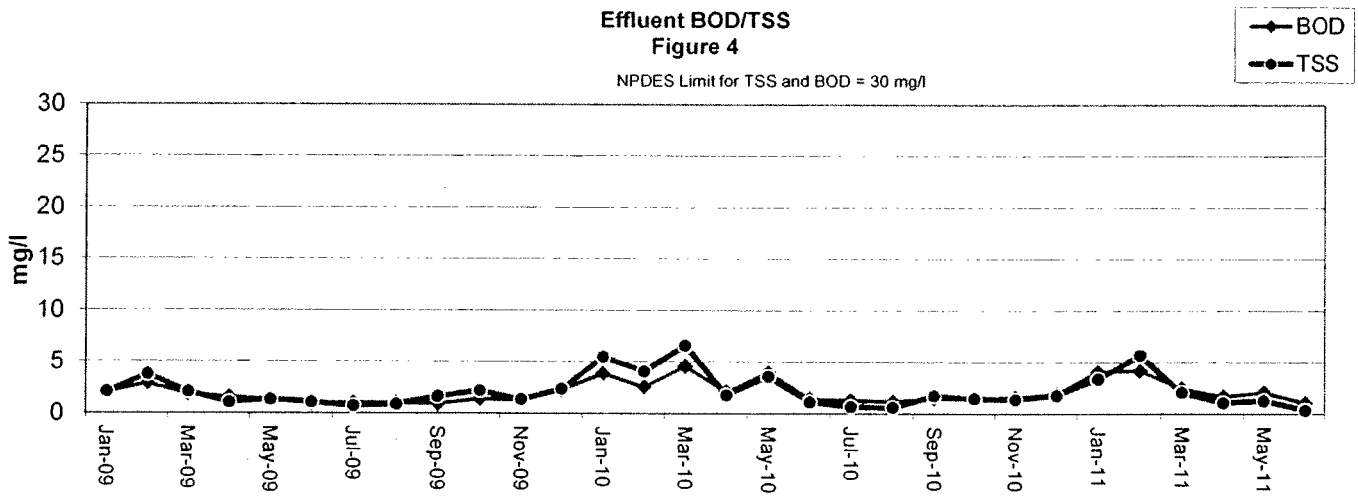


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

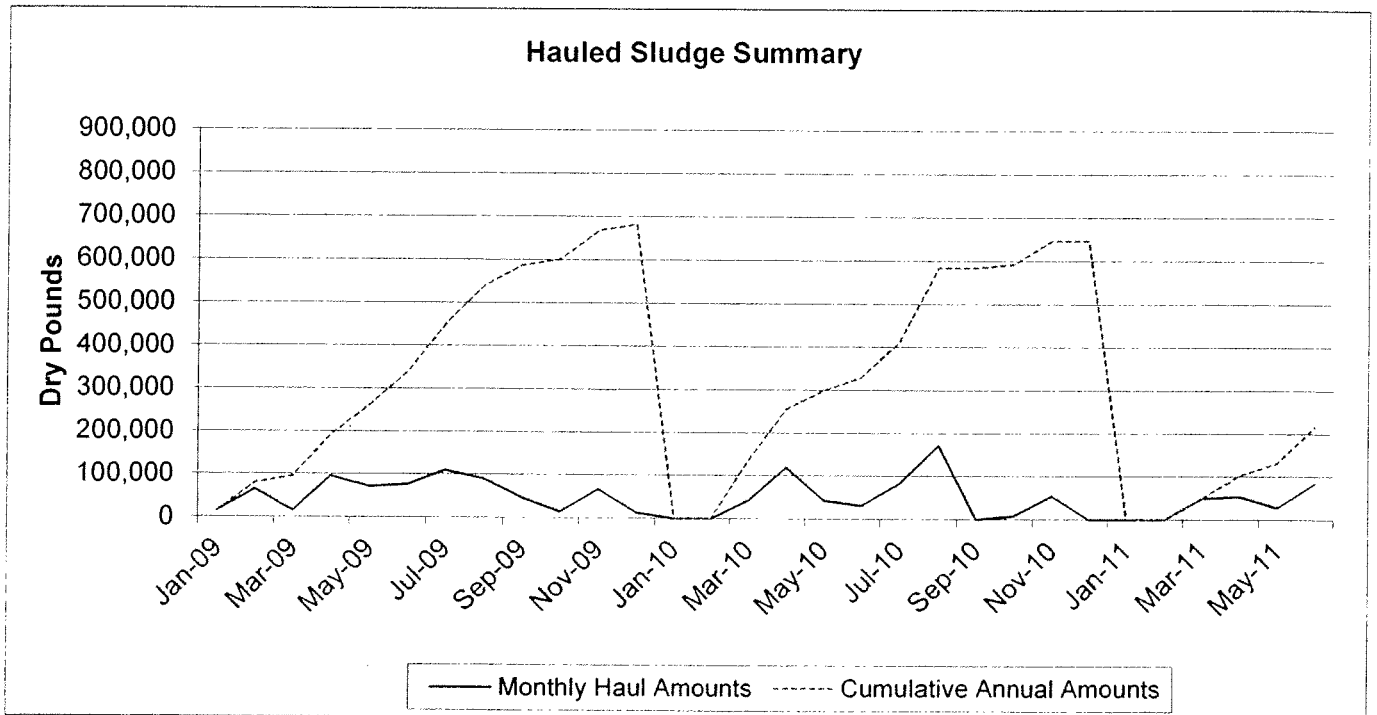
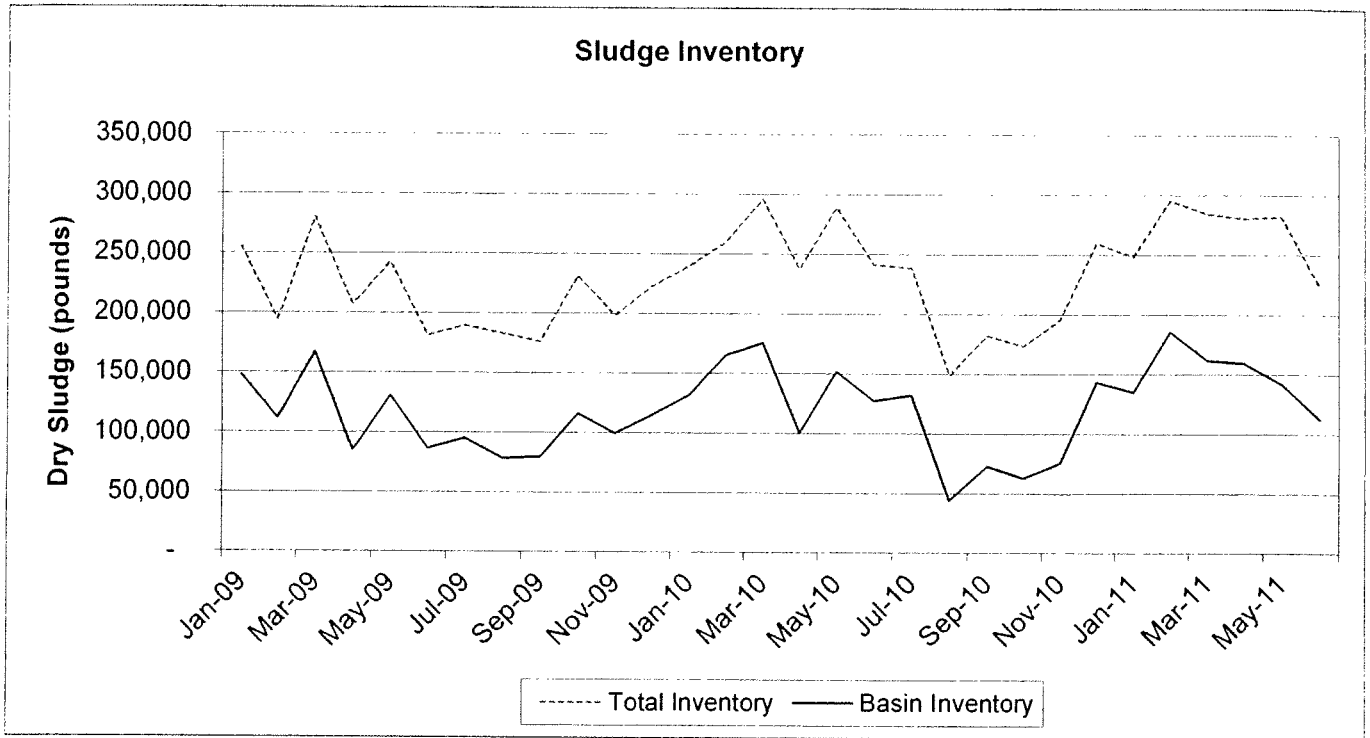
NPDES Limit for TSS and BOD = 30 mg/l



Accepted Sewage	
Loads	Gallons
24	59,000
24	62,000
18	45,000
26	65,000
26	64,000
32	78,500
50	163,500
55	145,000
37	97,500
43	112,500
20	50,500
35	93,000
25	60,000
57	146,500
13	33,000
48	124,000
48	126,000
60	157,500
22	52,000
96	252,000
18	46,500
26	65,000
16	38,000
24	56,500
19	45,000
6	15,000
25	59,000
27	70,500
39	101,500
36	96,000

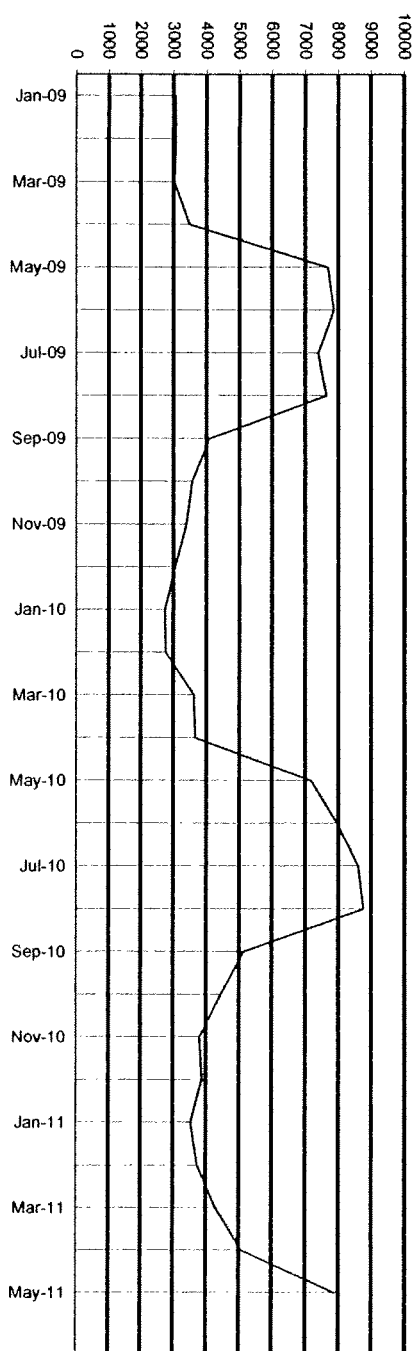
Hauled Sludge		Basin Depths		Blanket Depths		Blanket and M.S.S. Inventory		Total Dry	
Loads	Gallons	# Dry	% Solids	Tank #1	Tank #2	# Dry	% Solids	Sludge Inventory	Sludge Inventory
Jan-08	44,400	14,627	4.0%	6.0	4.0	0.0	0.0	3,860	3,860
Feb-08	196,100	65,018	4.0%	5.0	2.5	0.0	0.0	1,840	3,640
Mar-08	44,400	15,738	4.3%	5.5	5.0	0.0	0.0	3,330	4,110
Apr-08	303,400	96,032	4.4%	5.0	1.0	0.0	0.0	4,260	3,860
May-08	196,100	71,251	4.4%	5.5	2.5	0.0	0.0	3,360	3,550
Jun-08	259,011	76,875	3.6%	4.5	2.0	0.0	0.0	3,180	2,890
Jul-08	259,011	110,008	5.1%	5.0	0.0	0.0	0.0	3,040	2,910
Aug-08	310,800	90,568	3.5%	4.5	1.5	0.0	0.0	2,910	3,690
Sep-08	159,100	47,213	3.6%	6.0	0.0	0.0	0.0	3,750	2,620
Oct-08	48,100	14,626	3.6%	6.5	2.0	0.0	0.0	3,040	3,720
Nov-08	210,900	66,838	3.8%	6.0	1.0	0.0	0.0	2,640	3,820
Dec-08	37,000	13,577	4.4%	5.0	3.0	0.0	0.0	3,320	3,600
Jan-09	-	0	4.4%	5.0	5.0	0.0	0.0	3,310	2,910
Feb-09	-	0	4.4%	5.0	5.0	0.0	0.0	3,310	2,910
Mar-09	136,900	42,800	3.7%	7.0	5.5	0.0	0.0	3,940	3,890
Apr-09	373,700	119,328	3.8%	6.0	1.0	0.0	0.0	4,440	4,380
May-09	114,700	43,047	4.5%	6.0	3.0	0.0	0.0	3,930	4,750
Jun-09	111,000	31,506	3.4%	7.0	3.0	0.0	0.0	3,650	3,770
Jul-09	251,600	82,206	3.9%	8.0	1.0	0.0	0.0	3,250	3,770
Aug-09	521,700	171,540	3.9%	3.0	0.0	0.0	0.0	3,250	3,520
Sep-09	-	0	3.9%	2.5	2.5	0.0	0.0	3,300	3,750
Oct-09	33,300	8,517	3.1%	4.0	1.5	0.0	0.0	3,460	3,690
Nov-09	144,300	54,094	4.5%	4.5	0.0	0.0	0.0	4,050	3,640
Dec-09	-	0	4.5%	4.5	0.0	0.0	0.0	3,700	3,690
Jan-10	-	0	4.5%	5.5	2.5	0.0	0.0	3,520	3,930
Feb-10	-	0	4.5%	6.0	5.0	0.0	0.0	4,100	3,580
Mar-10	159,100	49,803	3.8%	7.5	4.0	0.0	0.0	4,100	3,640
Apr-10	168,500	53,692	3.9%	7.0	4.0	0.0	0.0	4,540	3,775
May-10	88,800	28,051	3.8%	5.5	4.5	0.0	0.0	3,920	3,775
Jun-10	288,600	85,043	3.5%	3.5	5.0	0.0	0.0	3,560	3,775

Basin Depths		Blanket Depths		Blanket and M.S.S. Inventory		Total Dry	
Loads	Gallons	# Dry	% Solids	Tank #1	Tank #2	# Dry	% Solids
Jan-08	44,400	14,627	4.0%	6.0	4.0	0.0	0.0
Feb-08	196,100	65,018	4.0%	5.0	2.5	0.0	0.0
Mar-08	44,400	15,738	4.3%	5.5	5.0	0.0	0.0
Apr-08	303,400	96,032	4.4%	5.0	1.0	0.0	0.0
May-08	196,100	71,251	4.4%	5.5	2.5	0.0	0.0
Jun-08	259,011	76,875	3.6%	4.5	2.0	0.0	0.0
Jul-08	259,011	110,008	5.1%	5.0	0.0	0.0	0.0
Aug-08	310,800	90,568	3.5%	4.5	1.5	0.0	0.0
Sep-08	159,100	47,213	3.6%	6.0	0.0	0.0	0.0
Oct-08	48,100	14,626	3.6%	6.5	2.0	0.0	0.0
Nov-08	210,900	66,838	3.8%	6.0	1.0	0.0	0.0
Dec-08	37,000	13,577	4.4%	5.0	3.0	0.0	0.0
Jan-09	-	0	4.4%	5.0	5.0	0.0	0.0
Feb-09	-	0	4.4%	5.0	5.0	0.0	0.0
Mar-09	136,900	42,800	3.7%	7.0	5.5	0.0	0.0
Apr-09	373,700	119,328	3.8%	6.0	1.0	0.0	0.0
May-09	114,700	43,047	4.5%	6.0	3.0	0.0	0.0
Jun-09	111,000	31,506	3.4%	7.0	3.0	0.0	0.0
Jul-09	251,600	82,206	3.9%	8.0	1.0	0.0	0.0
Aug-09	521,700	171,540	3.9%	3.0	0.0	0.0	0.0
Sep-09	-	0	3.9%	2.5	2.5	0.0	0.0
Oct-09	33,300	8,517	3.1%	4.0	1.5	0.0	0.0
Nov-09	144,300	54,094	4.5%	4.5	0.0	0.0	0.0
Dec-09	-	0	4.5%	4.5	0.0	0.0	0.0
Jan-10	-	0	4.5%	5.5	2.5	0.0	0.0
Feb-10	-	0	4.5%	6.0	5.0	0.0	0.0
Mar-10	159,100	49,803	3.8%	7.5	4.0	0.0	0.0
Apr-10	168,500	53,692	3.9%	7.0	4.0	0.0	0.0
May-10	88,800	28,051	3.8%	5.5	4.5	0.0	0.0
Jun-10	288,600	85,043	3.5%	3.5	5.0	0.0	0.0

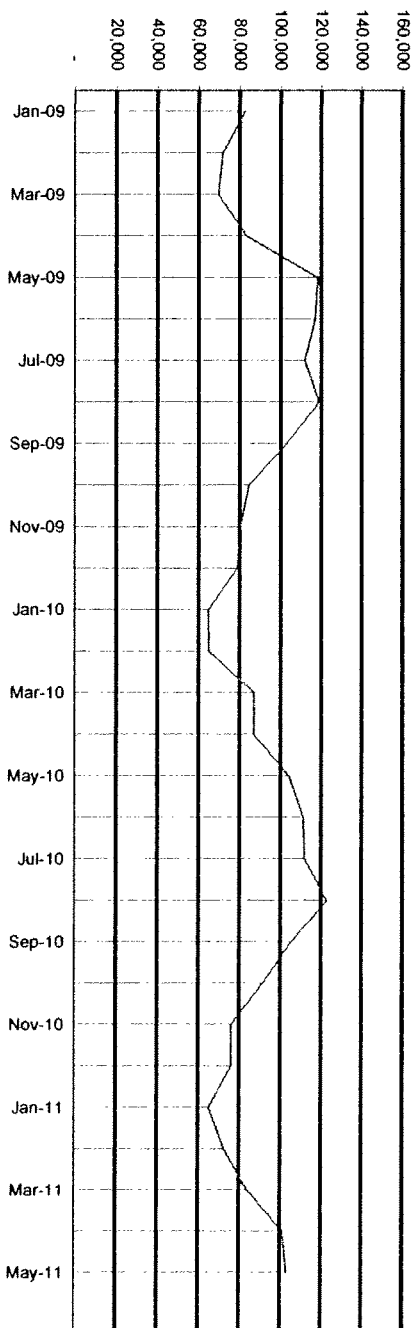


Month	Electric Cost	Kilowatts Used
Jan-09	3068	82,567
Feb-09	3090	71,761
Mar-09	3040	69,590
Apr-09	3502	83,325
May-09	7699	118,303
Jun-09	7873	116,962
Jul-09	7400	111,912
Aug-09	7651	119,019
Sep-09	4089	102,892
Oct-09	3582	84,384
Nov-09	3399	80,485
Dec-09	3061	78,719
Jan-10	2747	64,648
Feb-10	2771	64,964
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

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							
Jun-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	7.4			19.9	1.447	8.0				6.0		21.6		
2	7.4			19	1.379	8.0			0.15	4.6		21.6		
3	7.3	260	252	20.5	1.449	7.9	< 1.0	0.6		5.2		22.6	99.9	99.8
4	7.5			20.6	1.466	7.5				5.4		22.4		
5	7.3			20.6	1.825	7.9				5.4		22.8		
6	7.3			20.9	1.649	7.9				5.4	< 20	22.7		
7	7.3			21.5	1.477	8.0				6.2		22.8		
8	7.4			21.3	1.417	8.0			0.06	6.3		23.4		
9	7.3			21.4	1.419	8.0				5.3		23.6		
10	7.4	235	222	21.9	1.655	7.9	1.2	0.4		6.2		23.3	99.5	99.8
11	7.4			21.4	1.727	8.0				5.7		23.2		
12	7.3			21.3	1.897	7.9				5.7		21.8		
13	7.3			20.8	1.669	7.9				4.7	<20	21.2		
14	7.4			20.9	1.543	7.9				5.3		21.2		
15	7.4			21.6	1.755	8.0				5.8		21.9		
16	7.3			21.5	1.561	7.9			0.05	6.0		22.2		
17	7.4	230	206	21	1.623	7.9	1.1	0.4		6.1		22.2	99.5	99.8
18	7.6			21.2	1.812	7.8				4.6		21.9		
19	7.4			21.5	2.335	7.9				4.7		22.5		
20	7.5			21.4	1.946	7.9				4.9	<20	23.1		
21	7.4			21.6	1.662	7.9				5.2		23		
22	7.3			21.8	1.458	8.0			0.05	5.1		23.1		
23	7.3			21.9	1.685	8.0				5.9		22.4		
24	7.3	250	204	21.5	1.739	7.9	1.1	0.2		5.4		21.8	99.6	99.9
25	7.3			22.3	2.122	7.9				5.1		22.4		
26	7.4			23.1	2.378	7.9				4.4		23.6		
27	7.3			21.8	2.194	8.0				4.5	< 20	22.5		
28	7.4			22.3	1.886	8.0				4.9		23.4		
29	7.3			22.3	1.704	8.0			0.04	4.5		23.3		
30	7.3			21.8	1.789	8.0				5.1		23.9		
Total					51.668									
Avg		244	221	21	1.722		1.1	0.4	0.1	5.3	0.0	22.6	99.6	99.8
Min	7.3	230	204	19	1.379	7.5	< 1.0	0.2	0.0	4.4	0.0	21.2	99.5	99.8
Max	7.6	260	252	23	2.378	8.0	1.2	0.6	0.2	6.3	0.0	23.9	99.9	99.9

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			
29			
30			
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				Outside	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1	3,425	1.4	4,750	510	21.5	1.1	4,240	460	21.4	70		7:30
2	6,850	0.9	4,260	450	21.5	1.3	4,710	500	21.4	73		7:30
3	6,017	2.0	4,500	430	22.5	0.9	4,360	480	22.1	75		7:30
4		3.9	3,940	450	22.3	1.3	4,020	480	22.3	73		7:30
5		3.1	4,080	510	22.4	1.3	3,940	480	22.5	71		7:30
6		2.9	4,220	480	22.4	2.9	3,890	480	22.4	73		7:30
7	7,653	3.0	3,400	360	23.2	3.2	3,540	390	23.2	71		7:30
8	7,128	4.5	3,020	330	23.2	2.8	3,610	370	23.1	73		7:30
9	10,368	4.1	3,400	320	22.7	2	4,680	540	22.7	72		7:30
10		4.3	3,830	400	23.3	2.1	4,430	500	23.1	74		7:30
11		3.0	4,060	420	22.9	3.3	3,620	380	22.8	72		7:30
12		3.6	3,500	380	21.4	3.1	3,510	420	21.4	64		7:30
13	4,197	1.4	4,840	570	21.1	2.7	3,310	340	21.2	68		7:30
14		2.1	4,810	830	21	3.4	2,990	330	21.1	68	1	7:30
15		2.9	3,300	350	21.9	1	3,980	500	21.8	73	0.3	7:30
16	11,109	4.0	3,470	340	21.8	3.9	4,450	510	21.8	66		7:30
17	8,640	3.8	3,350	350	21.8	3.9	4,830	530	21.8	72		7:30
18		2.7	3,270	330	21.8	2.7	3,800	480	22	68	0.5	7:30
19		1.1	3,860	450	22.4	1.2	3,230	430	22.4	70	1	7:30
20		2.1	4,260	560	23.1	1.5	2,860	330	23	76		7:30
21		2.9	3,980	420	22.6	1.2	4,010	530	22.7	73		7:30
22	6,295	3.5	3,560	390	22.5	1	3,570	430	22.7	69		7:30
23		3.9	3,850	410	21.8	1.2	3,690	440	22.2	68		7:30
24		2.5	4,550	530	21	1.3	3,280	370	21.4	64		7:30
25		1.3	3,720	430	22.3	1	3,500	410	22.4	72		7:30
26		1.3	3,720	410	23.7	1.2	3,060	320	23.4	73	0.6	7:30
27		1.3	4,200	580	22.2	1	2,610	340	22.3	68	1	7:30
28		1.7	4,460	500	23.2	2	3,860	430	23.1	71		7:30
29	6,665	1.4	3,360	380	23.1	1	3,710	460	23.2	71		7:30
30	6,696	1.2	3,500	400	23.8	0.8	3,560	430	23.6	75		7:30

COMMENTS:

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

*Required Daily (Monday - Friday)

**Required 1/week

LAKE OZARKOSAGE BEACH
Operation Report

FOR JUNE
month

DATE	DETAILS	PLANT INVENTORY										ENVIRONMENTAL CONDITIONS				DISPOSITION						IN SBS
		W. L. 1	FL. W. 1	FL. W. 2	W. L. 1	W. L. 2	W. L. 3	W. L. 4	W. L. 5	W. L. 6	W. L. 7	W. L. 8	W. L. 9	W. L. 10	W. L. 11	W. L. 12	W. L. 13	W. L. 14	W. L. 15	W. L. 16	W. L. 17	
1	JH	0.237	1.074	1.311																		46C
2	JH	0.208	0.958	1.166																		50C
3	JH	0.219	1.080	1.299	258	250	260	206	244	252												48C
4	FH	0.242	1.166	1.408																		48C
5	FH	0.280	1.324	1.604																		48C
6	FH	0.264	1.179	1.443																		39C
7	JH	0.230	1.051	1.281																		37C
8	JH	0.243	1.132	1.375																		54C
9	JH	0.218	1.064	1.282																		50C
10	JH	0.229	1.230	1.479	218	248	235	146	220	222												38C
11	JH	0.277	1.397	1.674																		42C
12	JH	0.304	1.391	1.695																		34C
13	JH	0.271	1.229	1.500																		33C
14	FH	0.243	1.300	1.543																		50C
15	FH	0.248	1.386	1.634																		51C
16	JH	0.214	1.131	1.345																		51C
17	JH	0.246	1.215	1.461	224	226	210	152	206	206												53C
18	FH	0.289	1.440	1.729																		48C
19	FH	0.358	1.733	2.091																		43C
20	FH	0.318	1.399	1.717																		53C
21	FH	0.261	1.250	1.511																		43C
22	JH	0.246	1.141	1.387																		44C
23	JH	0.241	1.189	1.430																		37C
24	JH	0.260	1.259	1.519	232	226	250	158	186	204												41C
25	JH	0.305	1.659	1.964																		32C
26	JH	0.361	1.731	2.092																		34C
27	JH	0.305	1.652	1.957																		43C
28	JH	0.257	1.367	1.624																		46C
29	JH	0.224	1.306	1.530																		43C
30	JH	0.223	1.295	1.518																		43C
TOTAL		7.821	38.748	46.569	932	950	975	662	856	884	140.4	220.5	640.6	4.4	2126	117,020	13,270	3,376	230	77.8	112,850	13,09C
MAX		0.361	1.733	2.092	258	250	260	206	244	252	33.6	7.55	23.1	1	76	4,840	830	173	7.74	4.5	4,830	54
MIN		0.208	0.958	1.166	218	226	230	146	186	204	23	7.25	19	0.3	64	3,020	320	94	7.57	0.9	2,610	32
AVG		0.261	1.292	1.552	233	238	244	166	214	221	28.1	7.33	21.4	0.7	71	3,901	442	113	7.67	2.593	3,762	43

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

Prepared by GH, FH, CW

Approved by GH

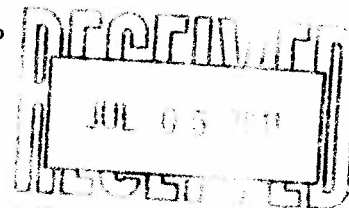


Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING
Lake of the Ozark Regional WWTP #1
OUTFALL 001 (24 hour composite) AEC = 100%
MO-0103241
EAS LOG# 1311209
June 8, 2011 through June 10, 2011



Tests performed by:

John P. Clippard / Chemical Analyst at Environmental Analysis South (EAS)
Kelly J. Ray / Biologist at Environmental Analysis South (EAS)
Sara C. Shields / Lab Supervisor - Chemist at Environmental Analysis South (EAS)
David F. Warren / Lab Director - Chemist at Environmental Analysis South (EAS)

1. Report Summation
 - 1.1. Data Summation
 - 1.2. Conclusion
2. Method Summation
 - 2.1. Test Conditions and Methods
 - 2.2. Potassium chloride Reference Salt Test
 - 2.2.1. *Pimephales promelas* data
 - 2.2.2. *Ceriodaphnia dubia* data
 - 2.3. Literature Cited
3. Raw Data Bench Sheets
 - 3.1. Initial observations (page 1)
 - 3.2. Zero hour Observations (page 1)
 - 3.3. Twenty-four (24) hour Observations (page 1)
 - 3.4. Forty-eight (48) hour Observations (page 1)
 - 3.5. Survival Data Table (page 2)
 - 3.6. Test Comments (page 3)
4. Chain of Custody
5. MO DNR "Whole Effluent Toxicity (WET) Test Report (Form 780-1899)

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Lake of the Ozark Regional WWTP #1
OUTFALL 001 (24 hour composite) AEC = 100%
MO-0103241
EAS LOG# 1311209
June 8, 2011 through June 10, 2011

1. REPORT SUMMATION:

1.1. Single Dilution Data Summation

	<i>Pimephales promelas</i> Acute Toxicity Test	<i>Ceriodaphnia dubia</i> Acute Toxicity Test
Survival in the Effluent at 48 Hours	100%	100%
Survival in the Reconstituted Control (RC) at 48 Hours	98%	100%
Survival in the Upstream Control (UC) at 48 Hours	100%	100%
Statistical Results Comparing the Survival Data of the Effluent with the Control (arc sine square root transformation)	No Significant Difference at alpha = 0.05 PASS	No Significant Difference at alpha = 0.05 PASS

* Indicates a significant difference at alpha = 0.5 between effluent and control survival data.

Conclusion: The mortality observed with both species was determined not to be significantly different than that observed in the control sample. Based on these results the outfall passed the whole effluent toxicity test with both indicator species.

Approved by _____


Sara C. Shields, Chemist

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OUTFALL 001 (24 hour composite) AEC = 100%
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EAS LOG# 1311209
June 8, 2011 through June 10, 2011

2. TEST METHOD SUMMARY

2.1. TEST CONDITIONS AND METHODS:

	<i>Ceriodaphnia dubia:</i>	<i>Pimephales promelas:</i>
Test duration:	48 hours	48 hours
Temperature:	24 - 26 degree Celsius	24 - 26 degree Celsius
Light quality:	Ambient laboratory illumination	Ambient laboratory illumination
Photoperiod:	16 hour light, 8 hours dark	16 hour light, 8 hours dark
Control Water:	Moderately Hard Reconstituted Water	Moderately Hard Reconstituted Water
Dilution Water:	Upstream Water - If unavailable or toxic, then control water will be used.	Upstream Water - If unavailable or toxic, then control water will be used.
Size of test vessel:	30 milliliters	250 milliliters
Volume of test solution:	15 milliliters	200 milliliters
Age of test organisms:	<24 hours	1 -14 days (all same age)
Number of organisms/test vessel:	5	10
Number of replicates/concentration:	4	4
Number of organisms/concentration:	20	40 for a single dilution test and 20 for a multiple dilution test
Feeding regime:	None (fed prior to test)	None (fed prior to test)
Aeration:	None	None
Test acceptability criterion:	90% or greater survival in controls	90% or greater survival in controls

The methodology used for the chemistry data was taken from the *Standard Methods for the Examination of Water and Wastewater*, 18th edition (1992). The exception was hardness, which was determined using a Hach EDTA titration test kit. The toxicity tests follow guidelines laid out in the permittee's NPDES permit and were conducted according to EPA approved methods (USEPA 2002).

All test organisms were cultured according to EPA approved methods (USEPA 2002). The *Ceriodaphnia dubia* and the *Pimephales promelas* were obtained from C-K Associates Inc. located in Baton Rouge, Louisiana and shipped overnight for use in the whole effluent toxicity test.

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REPORT OF ACUTE TOXICITY TESTING
Lake of the Ozark Regional WWTP #1
OUTFALL 001 (24 hour composite) AEC = 100%
MO-0103241
EAS LOG# 1311209
June 8, 2011 through June 10, 2011

2.2. REFERENCE TOXICITY TEST:

Environmental Analysis South performs monthly reference toxicity tests. The most recent reference test was initiated on June 8, 2011 using KCL Lot #41713. Following are the results:

2.2.1. *P. promelas* - 48 hr. Acute Test – $LC_{50} = 1.071$ g/l 95%CI (0.736-1.405 g/l)

EAS %CV = 15.6%

National Warning Limits (75th percentile) = 19%CV

National Control Limits (90th percentile) = 33%CV

2.2.2. *C. dubia* - 48 hr. Acute Test – $LC_{50} = 0.467$ g/l 95%CI (0.303-0.631g/l)

EAS %CV = 17.5%

National Warning Limits (75th percentile) = 29%CV

National Control Limits (90th percentile) = 34%CV

2.3. LITERATURE CITED:

1. APHA. 1992. *Standard methods for the examination of water and wastewater*, 18th Ed. American Public Health Association, Washington, D.C
2. USEPA. 2002. *Methods for measuring the acute toxicity of effluents and receiving waters to freshwater and marine organisms*, 5th Ed. EPA-821-R-02-012
3. USEPA 2000. *Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications under the National Pollutant Discharge Elimination System, (Table B-2)*. June 2000. EPA 833-R-00-003.

WHOLE EFFLUENT TEST conducted in accordance with US EPA 600/4-90/027 Fifth Edition October 2002

CLIENT NAME: Lake of the Ozarks Regional WWTP #1, Outfall 001, 24 hr composite
NPDES NUMBER: MO-0103241

TYPE OF METHOD: Single dilution, 48 hrs, PP & CD, AEC=100%

DATE & TIME OF COLLECTION: 06/06/11 1000 hrs - 06/07/11 1000 hrs by Gary Hutchcraft
DATE & TIME OF SUBMISSION: 06/08/11 1040 hrs by UPS

Upstream: Bowling Hollow Creek
Collected: 06/07/11 1000 hrs by Gary Hutchcraft

LOG NUMBER / ID NUMBER		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	INT EFFL	INT UC	INT RC					
pH - SU		06/08/11	1045 hrs	SCS	SB114 (8.8-9.2)	9	1311209	1311209A	4013					
TEMPERATURE °C RECEIVED		06/08/11	1045 hrs	SCS	EAS 106		8.23	8.13	7.76					
SPECIFIC CONDUCTANCE umhos		06/08/11	1045 hrs	SCS	ERA P185-506(359-407)		6	7	25					
HARDNESS - ppm		06/08/11	1045 hrs	SCS	ERA P170-507(107-134)	381	1480	550	257					
CHLORINE - ppm		06/08/11	1045 hrs	SCS	tap water	120	380	340	80					
DISSOLVED OXYGEN - ppm		06/08/11	1045 hrs	SCS	cal@840	+	<0.04	<0.04	<0.04					
TOTAL ALKALINITY - ppm		06/08/11	1300 hrs	SCS	ERA P185-506(70.8-83.7)	81.6	236	274	61.4					
INITIAL AMMONIA - ppm		06/21/11	1245 hrs	JPC	EAS #1981 (8-12)	10.4	0.253	0.089	<0.050					
TOTAL DISSOLVED SOLIDS -ppm														
0 HOUR OBSERVATIONS		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.50%	6.25%	X %AEC
pH - SU		06/08/11	1100 hrs	SCS	SB114 (8.8-9.2)	9	7.83	8.17	8.25					
TEMPERATURE °C		06/08/11	1100 hrs	SCS	EAS 106		24.1	24.5	24.1					
SPECIFIC CONDUCTANCE umhos		06/08/11	1100 hrs	SCS	ERA P185-506(359-407)	381	249	547	1460					
DISSOLVED OXYGEN - ppm		06/08/11	1100 hrs	SCS	cal@840		7.6	7.8	8.0					
24 HOUR OBSERVATIONS - PP		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.50%	6.25%	X %AEC
pH - SU		06/09/11	1100 hrs	SCS	SB114 (8.8-9.2)	9.02	7.76	8.54	8.50					
TEMPERATURE °C		06/09/11	1100 hrs	SCS	EAS 106		24.5	24.5	24.5					
SPECIFIC CONDUCTANCE umhos		06/09/11	1100 hrs	SCS	ERA P185-506(359-407)	383	297	557	1472					
DISSOLVED OXYGEN - ppm		06/09/11	1100 hrs	SCS	cal@840		7.7	7.4	7.4					
48 HOUR OBSERVATIONS - PP		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.50%	6.25%	X %AEC
pH - SU		06/10/11	1100 hrs	SCS	SB114 (8.8-9.2)	8.94	7.65	8.55	8.55					
TEMPERATURE °C		06/10/11	1100 hrs	SCS	EAS 106		24.1	24.1	24.1					
SPECIFIC CONDUCTANCE umhos		06/10/11	1100 hrs	SCS	ERA P185-506(359-407)	411	273	554	1475					
DISSOLVED OXYGEN - ppm		06/10/11	1100 hrs	SCS	cal@840		8.0	7.0	7.4					
FINAL AMMONIA - ppm					EAS #2375 (8-12)									
24 HOUR OBSERVATIONS - CD		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.50%	6.25%	X %AEC
pH - SU		06/09/11	1100 hrs	SCS	SB114 (8.8-9.2)	9.02	8.23	8.66	8.59					
TEMPERATURE °C		06/09/11	1100 hrs	SCS	EAS 106		24.5	24.5	24.5					
SPECIFIC CONDUCTANCE umhos		06/09/11	1100 hrs	SCS	ERA P185-506(359-407)	383	360	579	1479					
DISSOLVED OXYGEN - ppm		06/09/11	1100 hrs	SCS	cal@840		7.9	7.4	7.4					
48 HOUR OBSERVATIONS - CD		DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.50%	6.25%	X %AEC
pH - SU		06/10/11	1100 hrs	SCS	SB114 (8.8-9.2)	8.94	8.10	8.60	8.60					
TEMPERATURE °C		06/10/11	1100 hrs	SCS	EAS 106		24.1	24.1	24.1					
SPECIFIC CONDUCTANCE umhos		06/10/11	1100 hrs	SCS	ERA P185-506(359-407)	411	278	558	1422					
DISSOLVED OXYGEN - ppm		06/10/11	1100 hrs	SCS	cal@840		7.5	7.6	7.8					
FINAL AMMONIA - ppm					EAS #2375 (8-12)									

Approved by: *[Signature]*

Date: 06/09/11

WHOLE EFFLUENT TEST conducted in accordance with US EPA 600/4-90/027
Fifth Edition October 2002

Lake of the Ozarks Regional WWTP #1, Outfall 001, 24 hr composite EAS LOG# 1311209

Date Test Began:	June 8, 2011	Time Test Began:	1100 hrs	Analyst 1:	DFW
Date Test Finished:	June 10, 2011	Time Test Finished:	1100 hrs	Analyst 2:	KJR
				Analyst 3:	SCS

P. promelas (PP) AGE: 5 days HATCH NUMBER: 8629 c-k

	RC	UC	100%	50%	25%	12.50%	6.25%	X% AEC
PERIOD	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
0 HR-PP	10,10,10,10	10,10,10,10	10,10,10,10					
24 HR-PP	10,10,10,10	10,10,10,10	10,10,10,10					
48 HR-PP	10,10,10,9	10,10,10,10	10,10,10,10					

Ceriodaphnia dubia (CD) AGE: <24 hours HATCH NUMBER: 2331 c-k

	RC	UC	100%	50%	25%	12.50%	6.25%	X% AEC
PERIOD	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
0 HR-CD	5,5,5,5	5,5,5,5	5,5,5,5					
24 HR-CD	5,5,5,5	5,5,5,5	5,5,5,5					
48 HR-CD	5,5,5,5	5,5,5,5	5,5,5,5					

Approved by: *[Signature]*

Date: 06/24/11

WHOLE EFFLUENT TEST conducted in accordance with US EPA 600/4-90/027
Fifth Edition October 2002

Lake of the Ozarks Regional WWTP #1, Outfall 001, 24 hr composite EAS#: 1311209

Notes & Comments

[illegible]

Prepared by: 

Date: 06/24/11

Single

ENVIRONMENTAL ANALYSIS SOUTH, INC.

4000 East Jackson Blvd

Jackson, MO 63755

Phone: (573) 204-8817 Fax: (573) 204-8818



11,355

WHOLE EFFLUENT TOXICITY TESTING CHAIN OF CUSTODY

CLIENT: Alliance Lake Ogale

NPDES PERMIT NUMBER: MO-0103241

EFFLUENT NAME: 001 GRAB ☐ 24 HR COMPOSITE ☒
(LEGAL NAME)

COLLECTION DATA: START DATE: 6/6/11 START TIME: 10:00 AM

FINISH DATE: 6/7/11 FINISH TIME: 10:00 AM

UPSTREAM NAME: Bowling Hollow (GRAB SAMPLE)
(LEGAL NAME)

COLLECTION DATA: DATE: 6/7/11 TIME: 10:00 AM

SAMPLER NAME: GARY HUTCHCRAFT CARRIER: UPS
(PRINT NAME)

Disclaimer: Environmental Analysis South, Inc. shall not be held financially liable for invalid whole effluent toxicity test (WET) or shipping charges resulting from the following reasons:

- Sampling & holding time errors (Will results in a setup charge of \$100 to the client)
- Commercial carrier delivery problems or errors (Will results in a setup charge of \$100 to the client)
- Problems with health or delivery of test organisms by vendor (No setup charge to client)

SAMPLER CHECK LIST

NO HEADSPACE IN BOTTLES ☐

SHIP SAMPLES 6/7/11 ☐

SAMPLES TO BE HAND DELIVERED TO LABORATORY SAME DAY AS TEST SETUP ☐

RELINQUISHED BY: Gary Hutchcraft DATE: 6/7/11 TIME: 11:00 AM

LABORATORY USE ONLY

EFFLUENT

LOG NUMBER: 1311209

RECEIVED TEMPERATURE: _____ °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

UPSTREAM

LOG NUMBER: 1311209-A

RECEIVED TEMPERATURE: _____ °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

RECEIVED BY: Amalago DATE: 6/8/11 TIME: 1040
P.42 UPS



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM - P.O. BOX 176, JEFFERSON CITY MO, 65102

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

PART A - TO BE COMPLETED IN FULL BY PERMITTEE

FACILITY NAME Lake of the Ozarks Regional WWTP #1		DATE & TIME COLLECTED EFFLUENT 06/06/11 1000-06/07/11 1000 UPSTREAM 06/07/11 1000	
PERMIT NUMBER MO-0103241		PERMIT OUTFALL NUMBER Outfall # 001	
COLLECTOR'S NAME Gary Hutchcraft			
RECEIVING STREAM COLLECTION SITE AND DESCRIPTION Bowling Hollow Creek			
PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC) 100%		EFFLUENT SAMPLE TYPE (CHECK ONE) ☒ 24HR COMPOSITE ☐ GRAB ☐ OTHER	
SAMPLE NUMBER EFFLUENT 1311209 UPSTREAM 1311209A		UPSTREAM SAMPLE TYPE (CHECK ONE) ☐ 24HR COMPOSITE ☒ GRAB ☐ OTHER	
PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR CHLORINE _____ mg/L		PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR AMMONIA _____ mg/L	

PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY

PERFORMING LABORATORY Environmental Analysis South, Inc.		TEST TYPE Acute Static Non renewal Test Single Dilution	
FINAL REPORT NUMBER MO_1311209		TEST DURATION 48 hour	
DATE OF LAST REFERENCE TOXICANT TESTING June 8, 2011		TEST METHOD Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms	
DATE AND TIME SAMPLES RECEIVED AT LABORATORY 06/08/11 1040 hrs by UPS		TEST START DATE AND TIME 06/08/11 1100 hrs	TEST END DATE AND TIME 06/10/11 1100 hrs
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT UPSTREAM		TEST ORGANISM #1 AND AGE Pimephales promelas 5 days	TEST ORGANISM #2 AND AGE Ceriodaphnia dubia < 24 hours
SAMPLE FILTERED ¹ PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT UPSTREAM		90% OR GREATER SURVIVAL IN SYNTHETIC CONTROL? ☒ YES ☐ NO	DILUTION WATER USED TO ACHIEVE AEC none
FILTER MESH SIEVE SIZE? None		EFFLUENT ORGANISM #1 % MORTALITY AT AEC 0 %	EFFLUENT ORGANISM #2 % MORTALITY AT AEC 0 %
SAMPLE AERATED DURING TESTING? ☐ YES ☒ NO		UPSTREAM ORGANISM #1 % MORTALITY 0%	UPSTREAM ORGANISM #2 % MORTALITY 0%
pH ADJUSTED? ☐ YES ☒ NO EFFLUENT UPSTREAM		TEST RESULT AT AEC FOR ORGANISM #1 ☒ PASS ☐ FAIL	TEST RESULT AT AEC FOR ORGANISM #2 ☒ PASS ☐ FAIL

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100% EFFLUENT SAMPLE

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	6	SM18 2550B stored at 4 degree C until test setup	06/08/11 1045 hrs
pH Standard Units	8.23	SM18 4500-H B	06/08/11 1045 hrs
Conductance µMohs	1480	SM18 2510B	06/08/11 1045 hrs
Dissolved Oxygen mg/L	8.2	SM18 4500-O G	06/08/11 1045 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-CI G	06/08/11 1045 hrs
Unionized Ammonia mg/L	0.25x0.08=0.020	SM18 4500-NH3 F @ 25 degree C	06/21/11 1245 hrs
*Total Alkalinity mg/L	236	SM18 2320B	06/08/11 1300 hrs
*Total Hardness mg/L	380	SM18 2340 C	06/08/11 1045 hrs

*Recommended by USEPA guidance, not a required analysis.

- ¹ Samples shall only be filtered if Indigenous organisms are present that may be confused with, or attack, the test organisms.
² Filters shall have a sieve size of 60 microns or greater.

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100% UPSTREAM SAMPLE

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	7	SM18 2550B stored at 4 degree C until test setup	06/08/11 1045 hrs
pH Standard Units	8.13	SM18 4500-H B	06/08/11 1045 hrs
Conductance µMols	550	SM18 2510B	06/08/11 1045 hrs
Dissolved Oxygen mg/L	8.0	SM18 4500-O G	06/08/11 1045 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	06/08/11 1045 hrs
Unionized Ammonia mg/L	0.089x0.07<0.010	SM18 4500-NH3 F @ 25 degree C	06/21/11 1245 hrs
*Total Alkalinity mg/L	274	SM18 2320B	06/08/11 1300 hrs
*Total Hardness mg/L	340	SM18 2340 C	06/08/11 1045 hrs

*Recommended by USEPA guidance, not a required analysis.

PRELIMINARY TEST ACCEPTABILITY MATRIX (FOR USE BY PERMITTEE IN DETERMINING TEST VALIDITY)**PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC):** As indicated on permit. Test is Invalid otherwise.**EFFLUENT SAMPLE TYPE:** As indicated on permit. Test is Invalid otherwise.**TEST TYPE:** Acute Static Non-Renewal Test or other as indicated on permit. Test is Invalid otherwise.**TEST DURATION:** Forty-eight (48) hours or as indicated on permit. Test is Invalid otherwise.**TEST ORGANISMS:** As indicated on permit. Test is Invalid otherwise.**DILUTION WATER USED TO ACHIEVE AEC:** Upstream receiving water required if available.**TEST METHOD:** The only acceptable method is the *most current edition* of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, or other as specifically assigned by EPA for determining NPDES compliance. Test is Invalid otherwise.**TEST START DATE & TIME:** Unless otherwise specified in writing by EPA, if >36 hours lapse between collection and initiation, test is Invalid.**FILTER MESH SIEVE SIZE:** Unless otherwise specified in writing by EPA, if sieve size is smaller than 60 microns, test is Invalid.**90% OR GREATER SURVIVAL IN LABORATORY CONTROL(S) (Y/N):** If NO, test is Invalid.

PARAMETER	RESULT	NOTES	WHEN ANALYZED
Temperature °C	0 - 6	Unless received by the laboratory on the same day as collected, values outside this range invalidate the test.	Upon receipt

³ Where no upstream control is available, enter results from laboratory or synthetic control.