

**OSAGE BEACH/LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JULY 16, 2013
4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Penny Lyons, Mayor, Osage Beach
Johnnie Franzekos, Mayor, Lake Ozark
Nancy Viselli, City Administrator, Osage Beach
Dave Van Dee, City Administrator, Lake Ozark
Don Langley, Alderman, Lake Ozark
John Olivarri, Alderman, Osage Beach
Rick King, Public Works Director, Osage Beach
Matt Michalik, Public Works Director, Lake Ozark
Gary Hamner

3. MINUTES

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4. REPORTS

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5. OLD BUSINESS

Magruder Litigation

6. NEW BUSINESS

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 20, 2013, 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK - OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – June 26, 2013**

Call to Order:

Mayor Penny Lyons called the meeting to order at 4:52 p.m. at Osage Beach City Hall.

Roll Call:

Present: Mayor Penny Lyons
Mayor John Franzeskos
City Administrator Nancy Viselli
City Administrator, Dave Van Dee
Osage Beach Alderman John Olivarri
Osage Beach Public Works Director, Rick King
Lake Ozark Public Works Director, Matt Michalik
Gary Hamner

Absent: Lake Ozark Alderman, Don Langley

Others Present: Gary Hutchcraft, Plant Manager
Gary Johnson, Alliance Water Resources
Karri Bell, Osage Beach Treasurer
Mike Welty, Osage Beach Staff Accountant

MINUTES OF PAST MEETING:

Mayor Penny Lyons noted a correction to the minutes that the spelling of Saxton is spelled Saxony. With that correction, Mayor John Franzeskos motioned to approve the minutes second by Gary Hutchcraft, all voted and unanimously approved.

PUBLIC COMMENT: None to report

BILLS LIST: Members reviewed. Gary Hamner pointed out that on the Budget Analysis report, on page 21, and the Cash Flow Analysis report, on page 25, that we are still on track but will if we don't get some outside funding or reimbursement, we will be short about \$50,000.00. It was discussed to delay the #1 Aeration Basin that is budgeted for \$45,000 by a year or two. Public Works Director, Rick King said it would not be a problem to delay it. The \$45,000 and the \$5,000 from the savings off the insurance policy can be used to pay attorney fees on the quarry litigation to compensate the \$50,000 shortage.

REPORTS:

REVENUE BUDGET ANALYSIS
EXPENDITURE BUDGET ANALYSIS
INCOME & EXPENSE SUMMARY
CASH FLOW ANALYSIS
BALANCE SHEET
CHECK REGISTERS & BANK STATEMENTS

ALLIANCE REPORT & FLOW CHARTS:

Gary Hutchcraft went over the May 2013 summary report of operations, a copy of which was included in the meeting packet. Gary talked about the 8 year old lawn mower needs to be replaced. He currently has three (3) bids on it. The bid for the Kubota mower is the lesser of all three of \$4,449.99 which also includes a 4 year warranty. Mayor John Franzekos motioned to approve the purchase of the Kubota mower; second by Public Works Director, Matt Michalik. All voted and unanimously approved. Mayor John Franzekos motioned to approve the May 2013 Alliance Report and Flow Chart; second by Gary Hamner. All voted and unanimously approved.

OLD BUSINESS:

Conference call with Steve Maur. Mr. Maur gave us an update on the litigation. He said the Commissioner has not made a ruling. The most recent development with the appeal on the Saxony Lutheran School case has recently been decided and that's what the Commissioner was waiting for. The Commission modified the permit from what was requested the mine boundaries and allowed and authorized a permit with conditions with a smaller area from what the original applicant requested. With that said, Steve Maur believes that she is not inclined to just grant the application submitted from Magruder. He thinks that it is a positive indication that she does not believe that a permit for the whole 205 acres would be warranted and justified. Steve thinks that since she has waited this long, if she's going to recommend anything for a permit, it will be somehow reduced from the request that Magruder has made for the whole 205 acres, and it could be just the 90 acres that was first submitted. He does not think she is going to ask us for any conditions at this point. We could expect a decision within a couple of months. Mayor Lyons asked how is the Lutheran School case applicable with the treatment plant. Steve replied and said because of the legislative ruling that said you have to be within 1000 feet of the school, the blasting had impacted our sewage treatment plant and the blasting was further away from the 50 feet boundary that they want to have. He doesn't think she is going to find anything in the record to point to a safe distance away from the sewage treatment plant. Gary Hamner asked how can we recover legal fees. Steve said if we prevail in front of the Commissioner, and the permit is denied, he thinks the judge will award us all our legal fees. If we don't win, we should re-coop some of the legal fees.

NEW BUSINESS: None to report

OPEN DISCUSSION: City Administrator, Dave Van Dee was approached by Alderman Don Langley to pass on a suggestion to the sewage treatment plant that he has experience with solar power. Gary mentioned that only the office could be solar powered.

ADJOURMENT:

With nothing further to discuss, the meeting was adjourned at 5:30 pm. The next regularly scheduled meeting is Tuesday, July 16, 2013, 4:00 pm. at Lake Ozark City Hall.

Penny Lyons
Mayor, Osage Beach

Mardonna Phillips
Joint Sewer Clerk, Lake Ozark

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JOINT SEWER BOARD

BILL LIST

July 16, 2013

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
OPERATING FUND BILLS TO BE PAID:	\$ 47,353.13
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 47,353.13

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
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TOTAL	\$ -
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OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4170	3307	Alliance Water Resources, Inc.	June 2013 Management Fee	\$ 23,450.82
4000	3308	Equipment Replacement Fund	New Basin -Loan Payment	\$ 2,330.12
4170	3308	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4020	3309	Alliance Water Resources, Inc.	Misc Repair/Main	\$ 720.71
4160	3310	Alliance Water Resources, Inc.	Hauled Waste	\$ 570.00
4220	3311	Zerger & Mauer	Magruder Lawsuit Partial Payment	\$ 10,000.00
4020	3312	Crown Powe & Equip	Riding Lawn Mower	\$ 4,449.00
4020	3313	Vandevanter Eng	UV panel repair	\$ 2,365.31

\$ 47,353.13

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

Alliance Water Resources, Inc.*Professional Water and Wastewater Operations***206 South Keene Street****Columbia, Missouri 65201****(573) 874-8080 Fax (573) 443-0833****INVOICE****Invoice No: 5683**

SOLD TO

01-Jul-13

Lake Ozark/Osage Beach Joint Utility Board

c/o Karri Bell

City of Osage Beach

1000 City Parkway

Osage Beach, MO 65065

Customer No: 20220**Terms: 30 days**

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Jul-13	
	Base Fee	\$23,450.82
TOTAL DUE		\$23,450.82

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: 5684

Invoice Date: 01-Jul-13

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	John Henry Foster - 1 Invoice - 50%	\$267.18
	Menards - 1 Invoice - 50%	\$104.00
	The Home Depot - 1 Invoice - 50%	\$443.58
	The Home Depot (3/4HP Sump Pump Returned)- 1 Invoice - 50%	(\$94.05)
TOTAL DUE		\$720.71



John Henry Foster

pneumatic and hydraulic equipment

www.jhf.com

REMIT TO: P.O. BOX 419161
Creve Coeur, MO 63141-9161

Ph (314) 427-0600
Fax (314) 427-3502

Invoice #	01248535
Page #	1
Date	06/28/2013

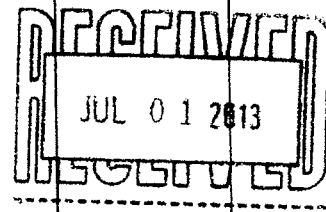
** ORIGINAL INVOICE **

We accept Visa and Mastercard

SOLD TO
Account #: 30796
ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
P.O. BOX #1985
LAKE OZARK, MO 65049-

SHIP TO
30796
ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
P.O. BOX #1985
LAKE OZARK, MO 65049-

Customer PO Number GARY HUTCHCRAFT		Ship Date 06/27/2013	Salesperson Neil Burton		Terms Net 20 Days	Order Date 06/21/2013
JHF Order # 01529066	Order Entered By Dave Huber		Placed By GARY HUTCHCRAFT		Ship Via UPS	
Part Number / Description			Ordered	Shipped	Backorder	Price Ea.
11134-00760 ORIGA OSP SERVICE PACK SLOW SPEED GREASE Direct from Vendor UV AIR CYLINDER REPAIR KITS			2	2	0	256.16
						512.32
GL Acct#: 6705-20 \$312.89 1220-20 \$267.18						4020
Signature: <i>Gary Hutchcraft</i>						
Date: 7/1/13						



How are we doing? How can we help you?

Please send us a note. feedback@jhf.com

Review and place orders at www.jhf.com!

Subtotal

Freight

Sales Tax

TOTAL

512.32

22.03

45.72

580.07

QF-03-02 10-1-2005

Subject to Terms and Conditions at http://www.jhf.com/terms_of_purchase.htm

Big CARD REBATE

MENARDS

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

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for
items on this receipt will be in the form
of an in store credit voucher if the
return is done after 09/16/13



Sale transaction

1 1/2" RUBBER CHECK VALV	
011562	8.99
1 2HP CASTIRON SEWAGEPUM	DO
0311678	199.00
TOTAL	207.99
MILLER/LAKE U-MO TAX 7.975%	16.59
TOTAL SALE	224.58
Menard Commercial Card 3423	224.58
010688	
Swiped	
PO # gary	

SUMP Pump For
RAS BASEMENT

TOTAL NUMBER OF ITEMS = 2

GUEST COPY

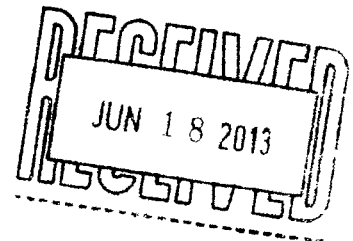
The Cardholder acknowledges receipt of
goods/services in the total amount shown
hereon and agrees to pay the card issuer
according to its current terms.

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

DO = The following item, if opened or
defective, cannot be returned due to
health and sanitary hazards. For Decko
sewage pump warranty issues/concerns or
claims call 800-495-9278.

THANK YOU, YOUR CASHIER, Caitlan

06/18/2013 10:23AM 1230



GL Acct#: 6705-20 \$120.58 1220-20 \$104.00 4020

Signature: Gary Hultquist

Date: 6/18/13



More saving.
More doing.

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

3027 00056 84204 06/11/13 01:49 PM
CASHIER SELF CHECK OUT - SCOT56

0000-200-637 3 YR REPAIR <A,U> 130.00N
3 YR REPAIR PLAN \$500-\$799.99
022315345799 3/4HP SUMP <A> 198.00 ← RETURNED
3/4HP CAST IRON PROFESSIONAL SUMP
MAX REFUND VALUE \$188.10
048231368605 LW2511ER <A> 599.00
24,500 BTU WINDOW A/C W/REMOTE
MAX REFUND VALUE \$569.05
-----5% Off Credit Offer-----
No Deferred
797.00 5% Off Credit Offer -39.85
MUST RETURN ALL ITEMS FOR A FULL REFUND

SUBTOTAL 887.15
SALES TAX 58.49
TOTAL \$945.64
XXXXXXXXXXXX6759 HOME DEPOT 945.64
AUTH CODE 011299/2563163 TA
CREDIT PROMOTION 6737 8970

ALLIANCE WATER RESOURCES
WATER RESOURCES ALLIANCE

P.O.#/JOB NAME: GARY

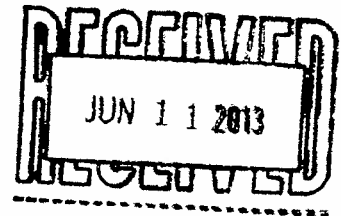
<U> - NON-DISCOUNTABLE ITEM



3027 56 84204 06/11/2013 0858

RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON
A 1 90 09/09/2013
THE HOME DEPOT RESERVES THE RIGHT TO
LIMIT / DENY RETURNS. PLEASE SEE THE
RETURN POLICY SIGN IN STORES FOR
DETAILS.

BUY ONLINE PICK-UP IN STORE
AVAILABLE NOW ON HOMEDEPOT.COM.
PICK-UP IN STORE OR BY MAIL.
LIMIT ONE PICK-UP PER ORDER.



GL Acct#: 6705-20 502.06 1220-20 443.58 4020

Signature: *Gary Hutchcraft*

Date: 6/11/13



More saving.
More doing.SM

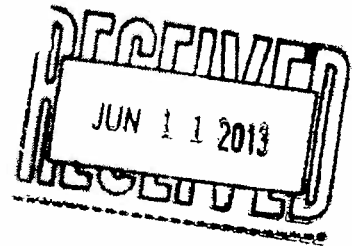
4030 HWY 54
OSAGE BEACH, MO 65065 (573)348-0082

3027 00012 42882 06/11/13 03:11 PM
CASHIER TODD - TJD090
* ORIG REC: 3027 056 84204 06/11/13 TA *

022315345799 3/4HP SUMP	-188.10
SUBTOTAL	-188.10
SALES TAX	-14.53
TOTAL	-\$202.63
XXXXXXXXXXXX6759 HOME DEPOT	-202.63
INVOICE 2120747	TA

REFUND-CUSTOMER COPY

BUY ONLINE PICK-UP IN STORE



CREDIT

GL Acct#: 6705-20 \$108.58 1220-20 \$94.05 4020
Signature: Larry Hutchcraft
Date: 6/11/13

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: 5682

Invoice Date: 30-Jun-13

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Jun-13	
	1 Hauled waste load @ \$10.00 each	\$20.00
	11 Hauled waste load @ \$50.00 each	\$550.00
TOTAL DUE		\$570.00

Zerger and Maur LLP Balance Sheet

Date	Description	Amount
11/19/2012	Statement # 2006	\$ 103,768.83
12/13/2012	Check # 3255	\$ (27,187.56)
12/28/2012	Statement # 2095	\$ 9,210.13
1/15/2013	Check # 3265	\$ (6,133.55)
1/30/2013	Statement #2170	\$ 13,235.39
2/19/2013	Check # 3273	\$ (10,000.00)
2/19/2013	Statement #2236	\$ 9,869.73
3/26/2013	Check # 3281	\$ (10,000.00)
4/16/2013	Check # 3291	\$ (10,000.00)
4/30/2013	Statement #2399	\$197.32
5/10/2013	Check # 3298	\$ (10,000.00)
5/30/2013	Statement #2596	\$127.62
6/24/2013	Statement #2689	\$929.92
6/26/2013	Check # 3306	\$ (10,000.00)
	Current Balance	<u>\$ 54,017.83</u>
7/16/2013	Check # 3311 (Pending)	\$ (10,000.00)
	New Balance	<u>\$ 44,017.83</u>

City of Osage Beach
Account No. 1014.0002
RE: Magruder

Statement Date: 06/24/2013
Statement No. 2689
Page No. 2

	Total Current Work	929.92
	Previous Balance	\$73,087.91
	<u>Payments</u>	
05/24/2013	Payment	-10,000.00
	Balance Due	<u>\$64,017.83</u>

ZERGER & MAUER LLP

1100 Main Street

Suite 2100

Kansas City, MO 64105 816/759-3300 Federal ID No. 27-5426971

STATEMENT

PRIVILEGED & CONFIDENTIAL

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

Account No. 1014.0002
RE: Magruder

Statement Date: 06/24/2013
Statement No. 2689
Page No. 1

Fees

		Rate	Hours	
05/14/2013				
SEM	Telephone conference with E. Rucker regarding decision in Saxony School case; prepare notes regarding same. NO CHARGE	280.00		
05/15/2013				
MLR	Review and analyze opinion from Missouri Court of Appeals regarding authority of Commission to condition quarry permit; communicate internally regarding same.	250.00	0.60	150.00
05/16/2013				
SEM	Prepare letter to E. Rucker regarding Saxony School case; attorney conference regarding preparing supplemental briefing to Commissioner Winn regarding same. NO CHARGE	280.00		
05/29/2013				
MLR	Draft and revise supplemental brief to address issues raised by recent decision from Missouri Court of Appeals regarding authority of LRC to modify permit.	250.00	3.10	775.00
05/31/2013				
SEM	Attorney conference regarding denial of permit by LRC for quarry permit in Taney County; prepare notes regarding same. NO CHARGE	280.00		
	For Current Services Rendered		3.70	925.00

Expenses

05/17/2013	Photocopy charges	3.40
05/17/2013	Postage	1.52
	Total Expenses	4.92

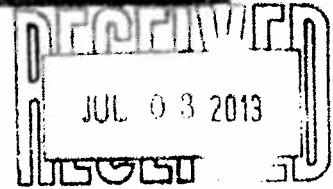
To ensure proper credit, please include account number and statement date on remittance checks. Thank you.

CROWN

Power and Equipment

3369 Hwy 52 West
PO Box 152
Eldon, MO 65026

Phone: 573-392-0230
Toll free: 866-392-0230
Fax: 573-392-1888
E-mail: cpe.eld@crown-power.com



INVOICE

Invoice # 2540E

BILL TO:

Joint Sewer Board
PO Box 1985
Lake Ozark MO 65049

SHIP TO:

Alliance Water Resources, Inc.
#3 Anderson Rd
Lake Ozark MO 65049

Date 7/3/2013
PO # 1046-20

Qty	Make	Model	Description	Serial	Unit Price	Total
1	Kubota	ZG123S-48	Zero Turn Mower w/48" Deck	11501	\$ 4,949.00	\$ 4,949.00
			for RTV400 Utility vehicle			
1	Craftsman	GT5000	Trade-in Mower	031105B001804	\$ (500.00)	\$ (500.00)
			Government - Tax Exempt			
					Subtotal	\$ 4,449.00
					Tax	\$ -
					Shipping	
					Misc	
					Bal Due	\$ 4,449.00

Please mail payments to:

Crown Power & Equipment Co.
PO Box 152
Eldon, MO 65026
Attn: Pat Wittrock

Questions and Inquiries:
866-392-0230

4020



Remit to:
P.O. Box 411832 - Dept. 100
Kansas City, MO 64141-1832
1-816-221-0650

INVOICE

INVOICE	
5292242	
Invoice Date	Page
07/09/2013	1 of 2
ORDER NUMBER	
1230288	

Bill To:
Joint Sewer Board
c/o Alliance Water Resources
Lake Ozark, MO 65049

Ship To:
Alliance Water Resources
#3 Anderson Road
ATTN: UV System Repair
Lake Ozark, MO 65049

Ordered By: Mr. Gary Hutchcraft

Customer ID: 301774

PO Number					Term Description	Net Due Date	Disc Due Date	Discount Amount
					Net 30	8/8/2013	8/8/2013	0.00
Order Date		Pick Ticket No		Primary Salesrep Name			Taker	
6/12/2013 14:20:23		3289891		Brandon Nienaber			TAMMY VUYLSTEKE	
Quantities					Item ID			
Ordered	Shipped	Remaining	UOM	Disp.	Item Description	Pricing UOM	Unit Price	Extended Price

Carrier:

Tracking #:

Order Note: 6/13/13: Customer reported that the flow meter is not reading on the UV panel. The 4-20mA loop reads on the flow meter and chart recorder but not at the UV system. After troubleshooting, it appears that a recent storm may have caused a surge resulting in damage to the I/O board. Through a series of tests and troubleshooting, technician determined that 4-20mA isolator for the flow loop was damaged and that channel O on the analog card (1769-IF4XOF2) was not working. Technician replaced IO card and left spare with customer along with spare surge arrestor. Phoenix contact Module 2814508 shipped directly to customer for installation. No further action required.

-----Service Item Information-----

1.0000	1.0000	0.0000	EA	MER	EA	2,365.3100	2,365.31
Serial Number: WETECO UV SYSTEM							
Misc. Equipment Repair							

-----Part(s)-----

1.0000	1.0000	0.0000	EA	DIRECT SHIP FREIGHT	EA		
--------	--------	--------	----	---------------------	----	--	--

Ordered As: DIRECT SHIP FREIGHT

1.0000	1.0000	0.0000	EA	PDS-1	EA		
Loop Protector							

Ordered As: PDS-1

1.0000	1.0000	0.0000	EA	AB1769IF4XOF2	EA		
4 Input/2 Output Analog Module							

Ordered As: AB1769IF4XOF2

1.0000	1.0000	0.0000	EA	2814508	EA		
Phoenix Contact MCR-C-I-I-00-DC							

*** REPRINT ***



INVOICE



**VANDEVANTER
ENGINEERING**

A COGENT COMPANY

Remit to:
P.O. Box 411832 - Dept. 100
Kansas City, MO 64141-1832
1-816-221-0650

INVOICE	
5292242	
Invoice Date	Page
07/09/2013	2 of 2
ORDER NUMBER	
1230288	

Quantities					Item ID	Pricing	Unit	Extended
Ordered	Shipped	Remaining	UOM	Disp.	Item Description	UOM	Price	Price

Signal Converter Interface

Ordered As: 2814508

Total Parts Price: 1540.31

-----Labor-----

5.5000	5.5000	0.0000	HR		L25	HR		
					Technical Solutions Group (TSG) Labor			
2.0000	2.0000	0.0000	HR		L25	HR		
					Technical Solutions Group (TSG) Labor			

Total Labor Price: 825.00

Total Lines: 1

SUB-TOTAL: 2,365.31

Missouri Sales Tax: 114.38

MEMO AMT (credit): 114.38

AMOUNT DUE: 2,365.31

Amount Due after 8/8/2013: 2402.51

All past due invoices are subject to a 1.5% per month finance charge.

*** REPRINT ***



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

Account Number	Account Name	6/30/2013					Percent YTD
		2011 Actual	2012 Actual	2013 Budget	2013 Actual as of 6/30/2013	2013 June Revenue	
3020	Osage Beach	399,428.80	403,305.55	451,000.00	223,696.82	36,992.19	50%
3010	Lake Ozark	90,571.18	86,694.44	99,000.00	46,303.18	8,841.14	47%
3100	Interest	804.37	537.49	200.00	21.95	3.44	11%
3060	Waste Haulers' Fee	39,457.00	40,820.00	38,000.00	19,560.00	4,700.00	51%
Total Operating Fund		530,261.35	531,357.48	588,200.00	289,581.95	50,536.77	49%
E/R Fund Income		1,355.61	1,374.82	1,500.00	730.50	3.70	49%
TOTAL INCOME		531,616.96	532,732.30	589,700.00	290,312.45	50,540.47	49%

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**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2013**

Account Number	Account Name	2011 Actual	2012 Actual	2013 Budget	2013 Actual as of 6/30/2013	2013 June Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	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	46,319.94	88,400.79	66,500.00	8,390.83	1,704.15	13%
4140	Insurance	17,127.00	20,962.00	21,000.00	15,641.00	0.00	74%
4150	Vehicle Repair/Maint	2,835.38	5,649.28	3,000.00	0.00	0.00	0%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	7,430.00	1,710.00	93%
4170	Contract Management	266,524.58	272,948.40	281,000.00	140,704.92	23,450.82	50%
4185	Electric	61,407.39	60,862.46	74,000.00	30,103.91	9,135.46	41%
4200	Audit	1,650.00	1,700.00	1,750.00	0.00	0.00	0%
4220	***Professional Service	19,298.33	168,904.97	67,000.00	59,639.73	10,000.00	89%
4240	*Capital Purchases	13,241.91	0.00	0.00	0.00	0.00	0%
	Totals	505,972.01	696,995.38	591,817.48	296,694.13	51,797.72	50%
	**E/R Expenses	1,523.00	5,368.50	10,000.00	0.00	0.00	0%
	TOTAL EXPENSES	507,495.01	702,363.88	601,817.48	296,694.13	51,797.72	49%
	***Professional Services:						
	Normal/Magrunder Lawsuit		67,000.00	Paid 05/13	UV Spare Parts		5,000.00
			67,000.00		Replace Wooden drs w/ Fiberglass		2,000.00
					Auto Dialer Yearly Software Fee		500.00
					Rock for Road		2,000.00
					Normal Maintenance		6,000.00
					Riding Lawn Mower		6,000.00
					#1 Aeration Basin Main.		45,000.00
							66,500.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2013

Beginning Balance	29,341.85
Income - Osage Beach	36,992.19
Income - Lake Ozark	8,841.14
Income - Other	0.00
Income - Waste Haulers' Fees	4,700.00
Interest - Checking	3.44
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-5,797.29
Expenses	-44,604.32
 Ending Fund Balance	 29,477.01
 NOW Account - Central Bank	 39,477.01
Outstanding Checks:	-10,000.00
Deposit in Transit:	0.00
	29,477.01

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2013

Beginning Balance	338,743.57
Interest - Checking	3.70
Income - CD Interest	0.00
Transfers From E/R Fund	5,797.29
Transfers to E/R Fund	0.00
Income - Miscellaneous	0.00
Expenses	0.00
 Ending Fund Balance	 344,544.56
 NOW Account - First Bank	 54,044.95
CD First National Bank, 07/13 #000048178	113,241.94
CD Providence Bank, 07/14	75,989.01
CD First National Bank, 07/13 #000049153	101,268.66
Deposit in Transit	0.00
Outstanding Checks:	0.00
	344,544.56

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CASH FLOW ANALYSIS - OPERATING FUND 2013

Lake Ozark and Osage Beach Joint Wastewater Treatment Plant														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	BUDGET
CASH BALANCE:	36,590	36,837	40,956	43,218	31,428	29,343	29,477	21,199	11,160	2,964	(3,731)	(10,094)		
Osage Beach	34,638	38,604	38,005	37,996	37,463	36,992	38,081	37,583	37,583	37,583	37,583	37,583	449,696	451,000
Lake Ozark	6,195	7,230	7,829	7,838	8,370	8,841	7,753	8,800	8,800	8,800	8,800	8,250	97,506	99,000
Interest	4	3	5	3	3	3	3	3	3	3	3	3	39	200
Waste Haulers' Fees	2,320	4,680	2,100	2,340	3,420	4,700	2,600	3,167	3,167	3,167	3,167	3,167	37,993	38,000
Transfers to ER Fund	(5,798)	(5,798)	(5,797)	(5,797)	(5,797)	(5,797)	(5,798)	(5,798)	(5,798)	(5,798)	(5,798)	(5,798)	(69,569)	(69,567)
Equip & Bldg Repair/Main	(190)	(1,610)	(160)	(331)	(5,791)	(308)	(7,535)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(20,925)	(21,500)
#1 Aeration Basin				(15,641)			-	(9,000)	(9,000)	(9,000)	(9,000)	(9,000)	(45,000)	(45,000)
Insurance							(500)	(500)	(500)	(500)	(500)	(500)	(15,641)	(21,000)
Vehicle Repair/Main.							(569)						(3,000)	(3,000)
Haulers Fees to Contractor		(1,300)	(2,200)	(1,051)	(1,170)	(1,710)	(569)	-	-				(8,000)	(8,000)
Contract Management	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(23,451)	(281,411)	(281,000)
Electric	(3,472)	(4,240)	(4,069)	(4,056)	(5,132)	(9,135)	(8,862)	(8,094)	(8,000)	(6,500)	(6,167)	(6,163)	(73,890)	(74,000)
Audit								(1,750)					(1,750)	(1,750)
Professional Services	(10,000)	(10,000)	(10,000)	(9,640)	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(3,088)	(112,728)	(67,000)
	36,837	40,956	43,218	31,428	29,343	29,477	21,199	11,160	2,964	(3,731)	(10,094)	(10,090)	-	-

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**OPERATING FUND
BALANCE SHEET
6/30/2013**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	29,477.01		
ACCOUNTS PAYABLE	DUE TO E.R. FUND - BASIN		13,739.30	
EQUITY	FUND BALANCE		15,737.71	
TOTAL OPERATING FUND		29,477.01	29,477.01	-

**EQUIPMENT REPLACEMENT FUND
BALANCE SHEET
6/30/2013**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	344,544.56		
ACCOUNTS RECEIVABLE	DUE FROM OPERATING FUND - BASIN	13,739.30		
EQUITY	FUND BALANCE		358,283.86	
TOTAL EQUIPMENT REPLACEMENT FUND		358,283.86	358,283.86	-

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Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 4/30/13			41,427.41
3291	Zerger & Mauer	X	10,000.00	31,427.41
3292	Ameren UE	X	5,132.47	26,294.94
3294	Alliance Water Resources, Inc.	X	23,450.82	2,844.12
3295	Alliance Water Resources, Inc.	X	5,797.29	(2,953.17)
3296	Alliance Water Resources, Inc.	X	727.35	(3,680.52)
3297	Alliance Water Resources, Inc.	X	1,170.00	(4,850.52)
3299	UV Doctor	X	3,668.16	(8,518.68)
3300	G & L Welding	X	1,396.11	(9,914.79)
	Deposit	X		37,462.85
	Deposit	X		8,370.49
	Deposit	X		3,420.00
	Interest	X		3.30
	reconciled balance 5/31/13			39,341.85
3298	Zerger & Mauer	X	10,000.00	29,341.85
3301	Ameren UE	X	9,135.46	20,206.39
3302	Alliance Water Resources, Inc.	X	23,450.82	(3,244.43)
3303	Alliance Water Resources, Inc.	X	5,797.29	(9,041.72)
3304	Alliance Water Resources, Inc.	X	308.04	(9,349.76)
3305	Alliance Water Resources, Inc.	X	1,710.00	(11,059.76)
	Deposit	X		38,085.59
	Deposit	X		7,747.74
	Deposit	X		4,700.00
	Interest	X		3.44
	reconciled balance 6/30/13			39,477.01



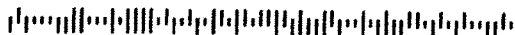
Central Bank of Lake of the Ozarks

MEMBER FDIC

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

001937

Return Service Requested



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

Period

06/01/2013-06/28/2013

Page

1 of 2

Web Address

www.cbolobank.com

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000007297 M 6

Your Financial Summary on June 28, 2013

Account Balances & Other Assets

Checking	\$	39,477.01
Total	\$	39,477.01

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 Beginning Balance May 31, 2013 \$ 39,341.85

Deposits

June 13 Deposit	8,841.14
June 13 Deposit	36,992.19
June 14 Deposit	3,900.00
June 27 Deposit	800.00
June 28 Interest Earned	3.44

Total **+\$** **50,536.77**

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3298	June 03	10,000.00	3303	June 28	5,797.29
3301	June 18	9,135.46	3304	June 28	308.04
3302	June 28	23,450.82	3305	June 28	1,710.00

Total **-\$** **50,401.61**

Ending Balance June 28, 2013 **\$** **39,477.01**

Number of days since last statement/interest cycle 30
Beginning and ending dates for calculation of statement/interest cycle are 06/01/2013 through 06/30/2013
Average collected balance 52,353.00
Interest rate 0.08%
Annual percentage yield earned 0.00%

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 7/31/12			96,695.16
	Interest	X	12.98	96,708.14
	Deposit	X	5,797.29	102,505.43
	reconciled balance 8/31/12			102,505.43
	Interest	X	15.89	102,521.32
	Deposit	X	5,797.29	108,318.61
	reconciled balance 9/30/12			108,318.61
	Interest	X	19.90	108,338.51
	Deposit	X	5,797.29	114,135.80
	reconciled balance 10/31/12			114,135.80
1002	Check	X	101,131.60	13,004.20
1003	Check	X	1,113.50	11,890.70
1004	Check	X	4,255.00	7,635.70
	Interest	X	13.90	7,649.60
	Deposit	X	5,797.29	13,446.89
	reconciled balance 11/30/12			13,446.89
	Interest	X	0.69	13,447.58
	Deposit	X	5,797.29	19,244.87
	reconciled balance 12/31/12			19,244.87
	Interest	X	1.20	19,246.07
	Deposit	X	5,797.29	25,043.36
	reconciled balance 1/31/13			25,043.36
	Interest	X	2.03	25,045.39
	Deposit	X	5,797.29	30,842.68
	reconciled balance 2/28/13			30,842.68
	Interest	X	2.45	30,845.13
	Deposit	X	5,797.29	36,642.42
	reconciled balance 3/31/13			36,642.42
	Interest	X	3.32	36,645.74
	Deposit	X	5,797.29	42,443.03
	reconciled balance 4/30/13			42,443.03
	Interest	X	3.64	42,446.67
	Deposit	X	5,797.29	48,243.96
	reconciled balance 5/31/13			48,243.96
	Interest	X	3.70	48,247.66
	Deposit	X	5,797.29	54,044.95
	reconciled balance 6/30/13			54,044.95



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

536 00010 26
ACCOUNT:
DOCUMENTS:

101318411
1

PAGE: 1
06/28/2013

84

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

NOTICE OF EXPIRATION OF THE TEMPORARY FULL FDIC INSURANCE COVERAGE FOR
NONINTEREST-BEARING TRANSACTION ACCOUNTS

By operation of federal law, beginning Jan. 01, 2013, funds deposited in a noninterest-bearing transaction account (including an Interest on Lawyer Trust Account) no longer will receive unlimited deposit insurance coverage by the Federal Deposit Insurance Corporation (FDIC). Beginning Jan. 01, 2013, all of a depositor's accounts at an insured depository institution, including all noninterest-bearing transaction accounts, will be insured by the FDIC up to the standard maximum deposit insurance amount (\$250,000), for each deposit insurance ownership category. For more information about FDIC insurance coverage of noninterest-bearing transaction accounts, visit <http://www.fdic.gov/deposit/deposits/unlimited/expiration.html>

BUSINESS MMDA ACCOUNT 101318411

LAST STATEMENT 05/31/13	48,243.96
2 CREDITS	5,800.99
DEBITS	.00
THIS STATEMENT 06/28/13	54,044.95

REF #	DATE	AMOUNT	REF #	DATE	AMOUNT	REF #	DATE	AMOUNT
	06/27	5,797.29						

DESCRIPTION	DATE	AMOUNT
INTEREST	06/28	3.70

AVERAGE LEDGER BALANCE:	48,658.05	INTEREST EARNED:	3.70
AVERAGE AVAILABLE BALANCE:	48,243.96	DAYS IN PERIOD:	28
INTEREST PAID THIS PERIOD:	3.70	ANNUAL PERCENTAGE YIELD EARNED:	.10%
INTEREST PAID 2013:	16.34		

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION



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**OPERATING
DIVISIONS**

MISSOURI

Bonne Terre

Boonville

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

Parkville

Phelps County #2

Platte County #C-1

Proctor & Gamble

Ralls County #1

Russellville

Sedalia

St Charles County #2

St Genevieve

Versailles

IOWA

Maquoketa

Tipton

TENNESSEE

South Fulton

REPORT OF OPERATIONS

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

Month of June 2013

Submitted by Alliance Water Resources, Inc. for the

July 2013

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	1.2	NA	< 20
Peak Day	1.3	1.4	8.0	< 20
Percent Removal	99.5	99.5	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 1.613 MGD or 54% 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 94133 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 54 tanker loads of bio-solids during the month equivalent to a total of 199,800 gallons and 62,210 pounds dry weight solids.

255,443 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 461,250 gallons with a level of 6.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 47 loads of septage during the month totaling 117,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We were able to leave one aerator in each ditch off again this month, including weekends.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We came in on the 3rd of June and noticed that the UV system was showing that we had 9.0 MGD going out our outfall, so we troubleshooted it and found that it had taken some type of power surge through the signal side of the controls. We called Wedeco and ruled out that it was our flow meter, so we called our statewide rep., which is Vandevanter and they came out on the 13th of June and had to replace an I/O board. They also found an isolator relay switch was bad and had to have it overnighted in and we installed it on the 14th and everything seems to be working fine now.
- The AC unit in the UV room quit cooling on the 10th of June. I called Sears and they said it was no longer under warranty and the soonest that they could get a tech out was June 24th so we went to Home Depot and purchased a replacement that same day. We purchased the 3 year extended repair or replacement warranty, which will cover it through June 10, 2017.
- We had to replace the sump pump in the RAS basement on the 11th and it lasted until the 18th so we took it back and got a refund and went to another vendor and purchased another brand that same day and it seems to be working fine now.
- The air conditioner on the GMC sludge truck locked up on the way to a field to spread sludge on the 27th, so we took it to Roemers Truck repair on the 28th to have him check out what went wrong, and he said that it needed replaced and it would be around \$1,000.00 for a new compressor, dryer, freon and labor.

SAFETY

- We conducted our monthly routine Safety Meeting on Confined Space Entry on the 6th of June.

REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 8th of July.
- We received our annual WET Test Lab results on the 24th of June and everything passed, which is excellent. (see attachment)

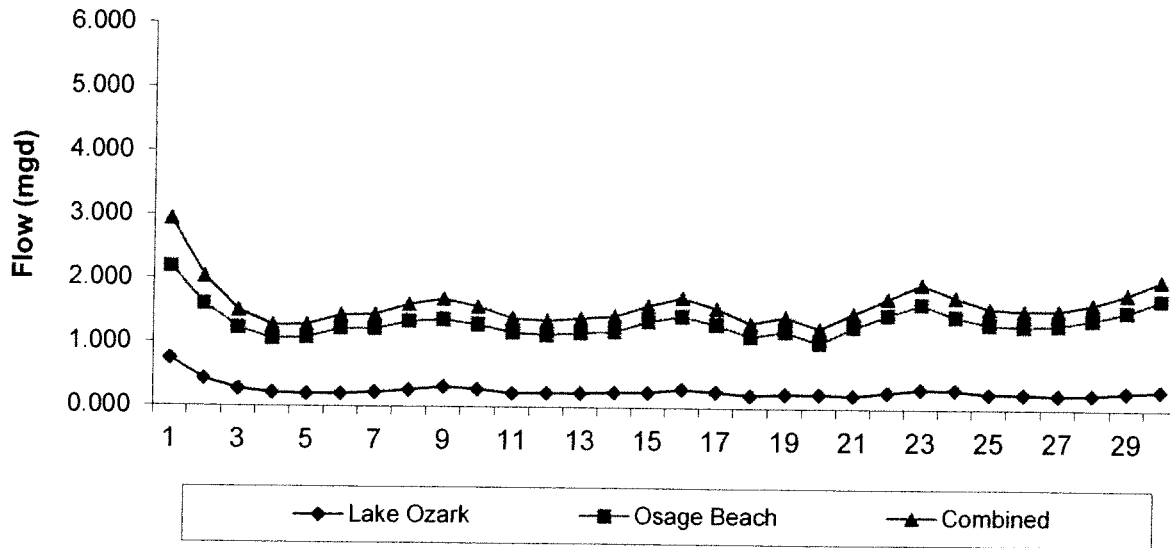
MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 2013

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	2.75	0.749	2.184	2.933	25.5	74.5						
2-Jun		0.433	1.605	2.038	21.2	78.8						
3-Jun		0.276	1.229	1.505	18.3	81.7						
4-Jun		0.218	1.059	1.277	17.1	82.9						
5-Jun		0.202	1.083	1.285	15.7	84.3						
6-Jun	0.2	0.205	1.228	1.433	14.3	85.7						
7-Jun		0.228	1.219	1.447	15.8	84.2	145	213	225	100	238	248
8-Jun		0.268	1.338	1.606	16.7	83.3						
9-Jun		0.318	1.369	1.687	18.9	81.1						
10-Jun	0.2	0.281	1.292	1.573	17.9	82.1						
11-Jun		0.223	1.171	1.394	16.0	84.0						
12-Jun		0.221	1.135	1.356	16.3	83.7						
13-Jun		0.226	1.172	1.398	16.2	83.8						
14-Jun		0.243	1.191	1.434	16.9	83.1	248	263	273	244	308	326
15-Jun		0.245	1.352	1.597	15.3	84.7						
16-Jun	0.2	0.294	1.435	1.729	17.0	83.0						
17-Jun	0.25	0.255	1.307	1.562	16.3	83.7						
18-Jun		0.206	1.124	1.330	15.5	84.5						
19-Jun	0.2	0.230	1.206	1.436	16.0	84.0						
20-Jun		0.227	1.028	1.255	18.1	81.9						
21-Jun		0.213	1.283	1.496	14.2	85.8	180	223	230	128	220	224
22-Jun		0.261	1.469	1.730	15.1	84.9						
23-Jun		0.315	1.643	1.958	16.1	83.9						
24-Jun		0.305	1.448	1.753	17.4	82.6						
25-Jun		0.249	1.331	1.580	15.8	84.2						
26-Jun		0.245	1.302	1.547	15.8	84.2						
27-Jun		0.229	1.322	1.551	14.8	85.2						
28-Jun	0.75	0.239	1.416	1.655	14.4	85.6	170	203	205	122	228	236
29-Jun		0.278	1.539	1.817	15.3	84.7						
30-Jun		0.303	1.725	2.028	14.9	85.1						
SUM	4.6	8.185	40.205	48.390								
AVG		0.273	1.340	1.613	17	83	186	226	233	149	249	259
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

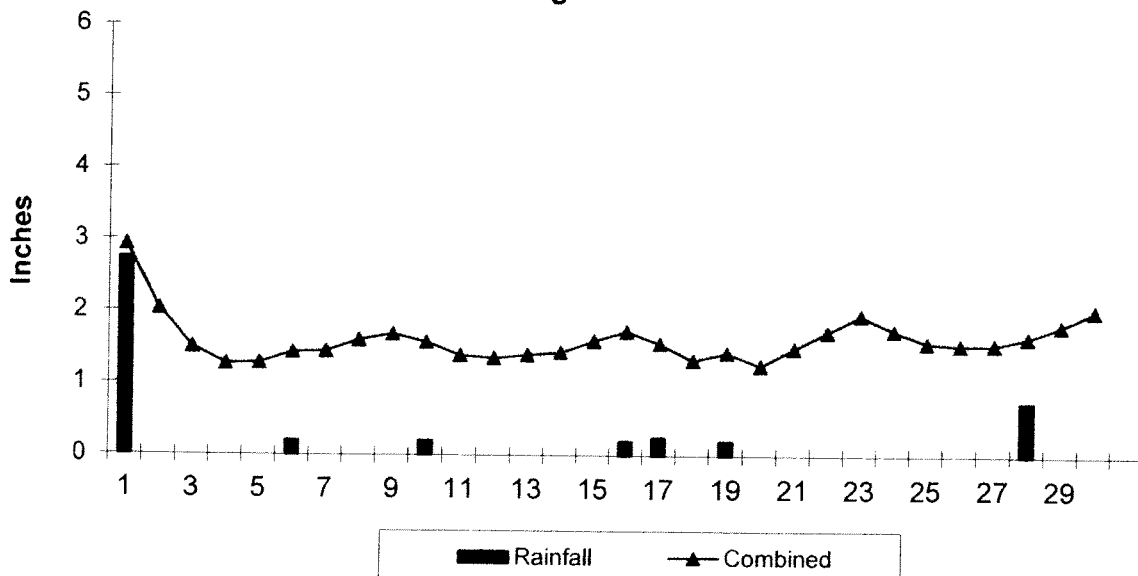
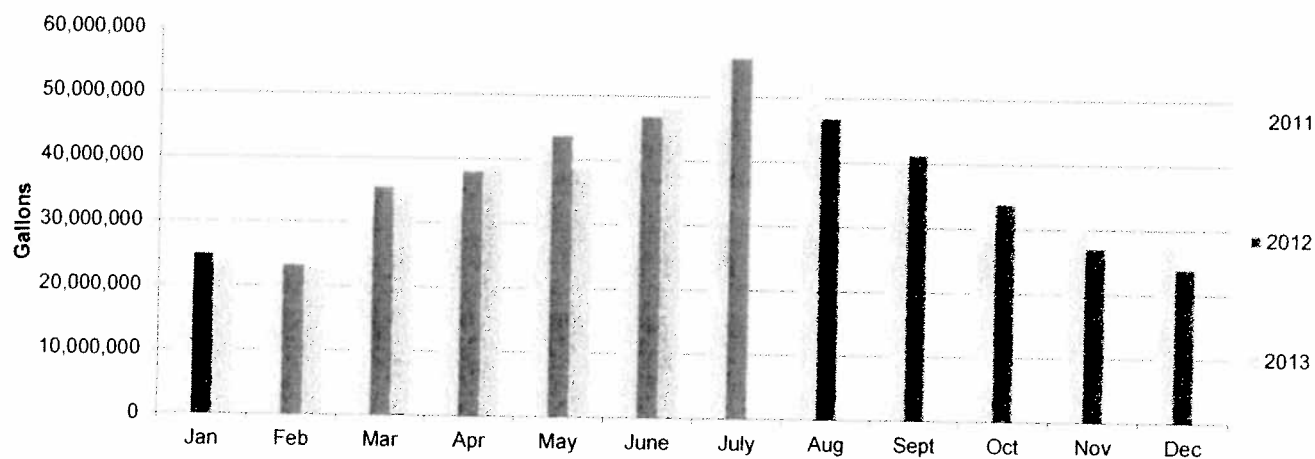


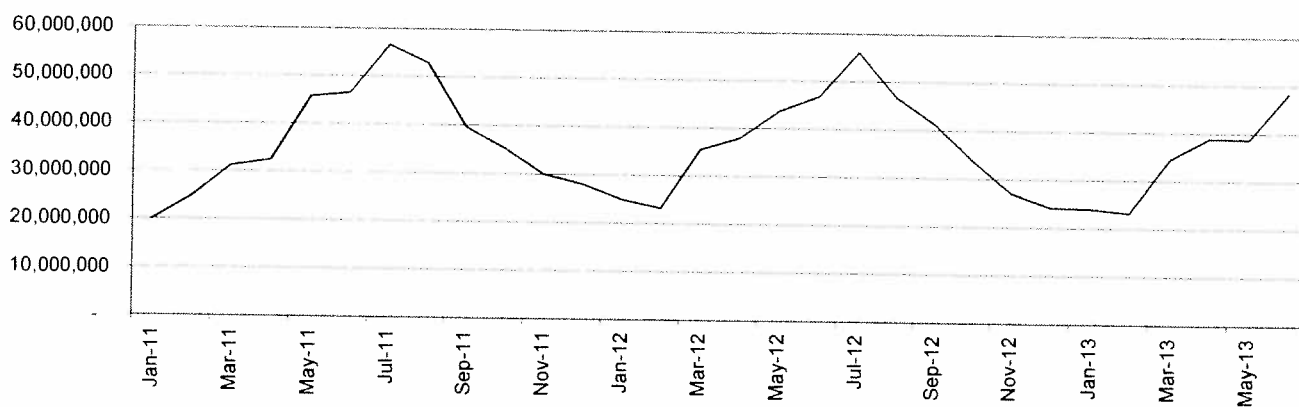
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2011</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	15,566,000	78%	4,395,000	22%	19,961,000	100%
February	4.8	19,737,000	80%	5,030,000	20%	24,767,000	100%
March	4.7	25,055,000	80%	6,183,000	20%	31,238,000	100%
April	4.8	26,299,000	81%	6,158,000	19%	32,457,000	100%
May	11.8	37,286,000	81%	8,523,000	19%	45,809,000	100%
June	4.4	38,748,000	83%	7,821,000	17%	46,569,000	100%
July	0.3	47,316,000	84%	9,297,000	16%	56,613,000	100%
August	6.5	44,175,000	84%	8,704,000	16%	52,879,000	100%
September	2.7	32,672,000	82%	6,999,000	18%	39,671,000	100%
October	2.3	28,932,000	82%	6,388,000	18%	35,320,000	100%
November	5.6	24,495,000	81%	5,589,000	19%	30,084,000	100%
December	3.5	22,789,000	81%	5,298,000	19%	28,087,000	100%
	52.1	363,070,000	81%	75,087,000	19%	443,455,000	100%
<u>2012</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.7	20,401,000	82%	4,577,000	18%	24,978,000	100%
February	2.4	18,682,000	80%	4,563,000	20%	23,245,000	100%
March	6.3	28,720,000	81%	6,779,000	19%	35,499,000	100%
April	8.0	30,919,000	81%	7,049,000	19%	37,968,000	100%
May	1.6	35,910,000	82%	7,801,000	18%	43,711,000	100%
June	1.4	39,021,000	83%	7,841,000	17%	46,862,000	100%
July	1.4	46,676,000	83%	9,443,000	17%	56,119,000	100%
August	1.0	39,227,000	84%	7,571,000	16%	46,798,000	100%
September	6.5	34,629,000	84%	6,696,000	16%	41,325,000	100%
October	3.6	28,634,000	85%	5,240,000	15%	33,874,000	100%
November	1.1	22,996,000	85%	4,113,000	15%	27,109,000	100%
December	1.4	20,460,000	84%	3,832,000	16%	24,292,000	100%
	35.2	366,275,000	83%	75,505,000	17%	441,780,000	100%
<u>2013</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	19,923,000	83%	4,104,000	17%	24,027,000	100%
February	4.2	19,290,000	83%	3,979,000	17%	23,269,000	100%
March	5.3	28,232,000	82%	6,308,000	18%	34,540,000	100%
April	8.7	31,410,000	81%	7,507,000	19%	38,917,000	100%
May	2.9	32,247,000	83%	6,560,000	17%	38,807,000	100%
June	4.6	40,205,000	83%	8,185,000	17%	48,390,000	100%
July							
August							
September							
October							
November							
December							
	28.5	171,307,000	82%	36,643,000	18%	207,950,000	100%

Monthly Influent Flow
Figure 3A

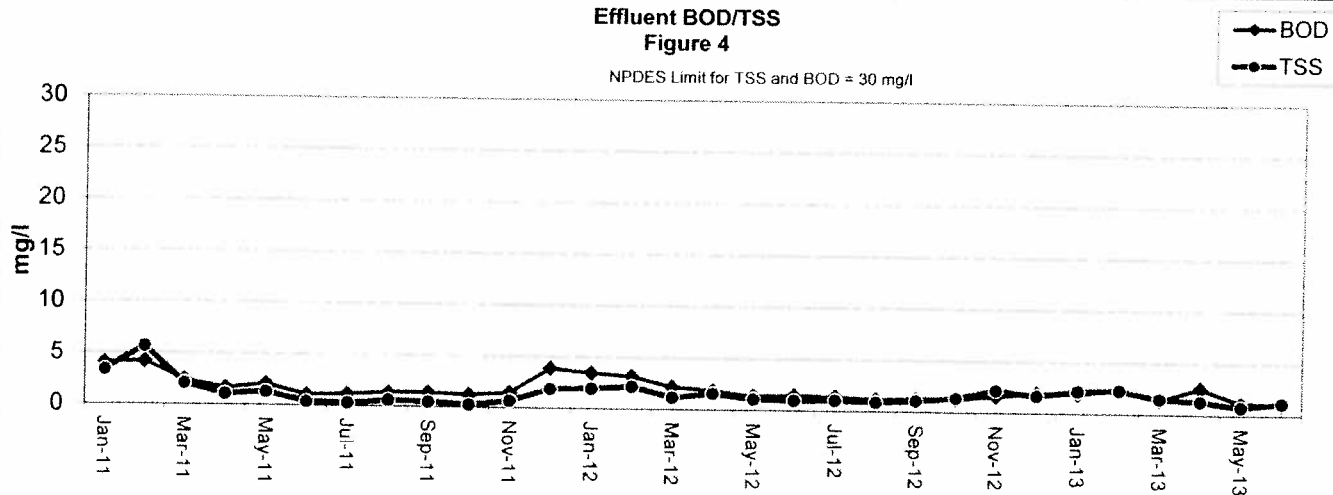


Monthly Influent Flow
Figure 3B

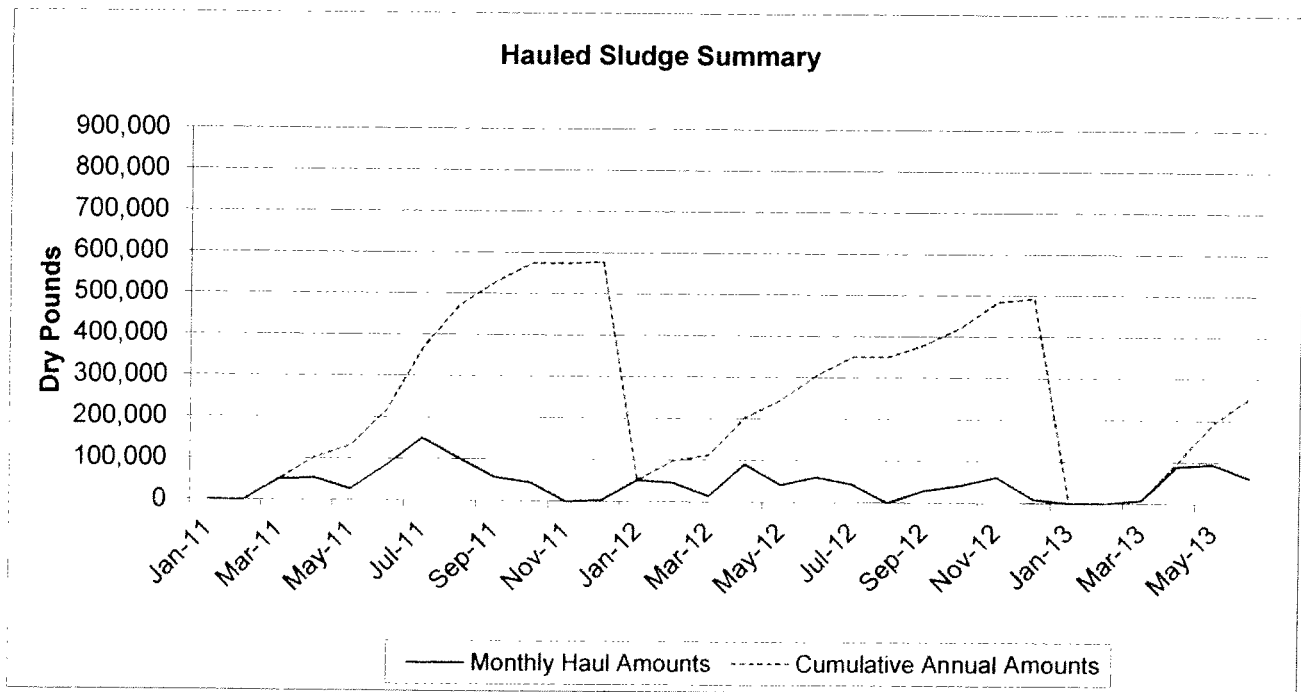
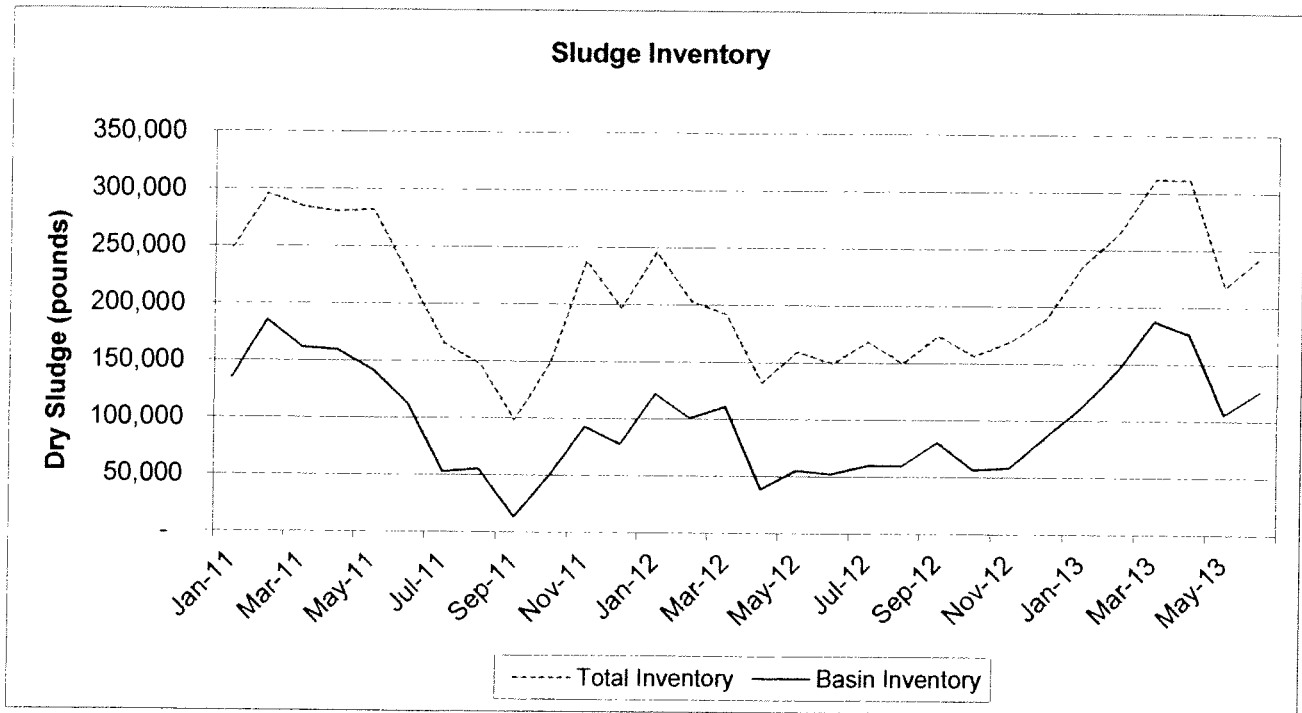


Effluent BOD/TSS
Figure 4

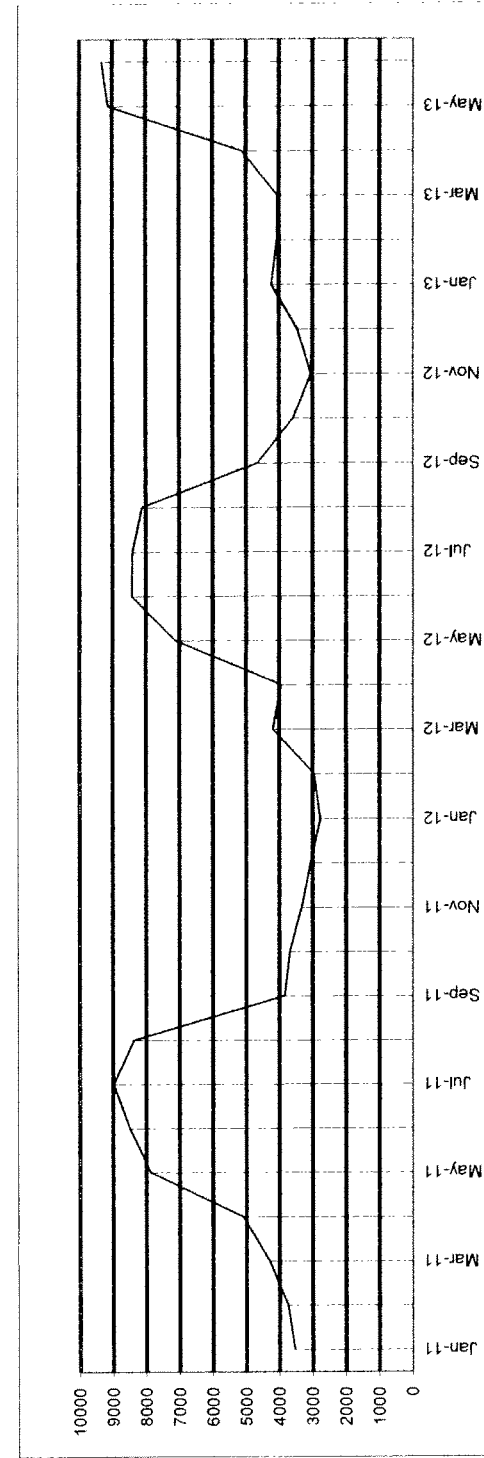
NPDES Limit for TSS and BOD = 30 mg/l



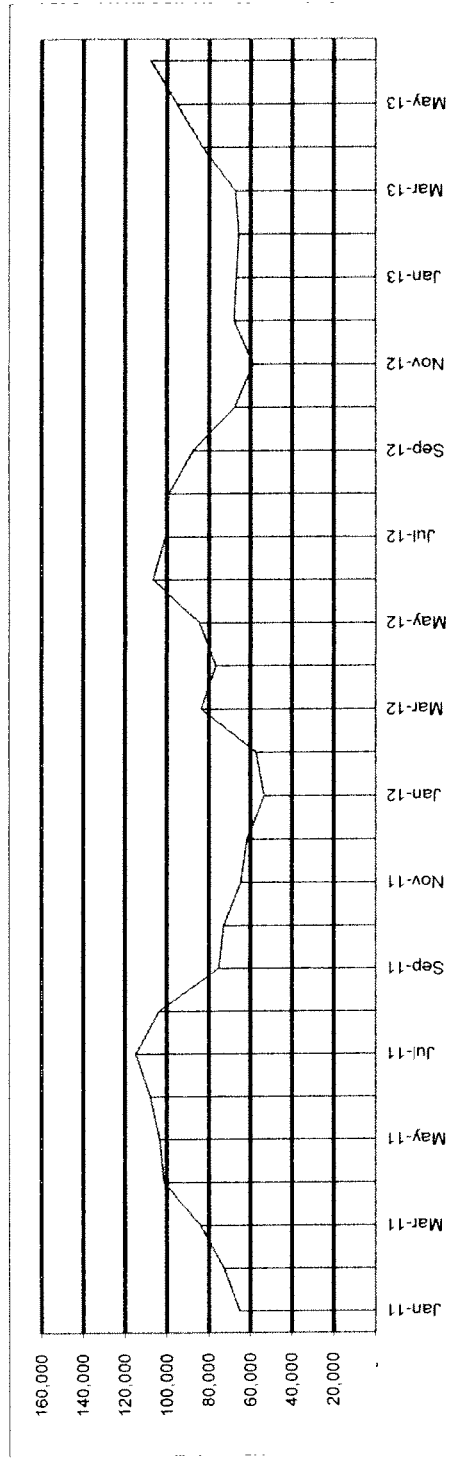
	Hauled Sludge				Basin Depths				Blanket Depths				MLSS Inventory				Blanket and MLSS Inventory				MLSS		Total Dry	
	Loads	Gallons	# Dry	% Solids	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	MLSS	Total Dry	Accepted Septage	Loads	Gallons		
Jan-11	0	-	-	0	5.5	2.5	0.0	360,000	135,108	1.0	2.0	0.0	3,520	3,930	3,653,286	113,495	0.00373	248,603	19	45,000				
Feb-11	0	-	-	4.5%	6.0	5.0	0.0	495,000	185,774	2.5	2.0	0.0	3,580	3,590	3,679,929	109,872	0.00358	295,646	6	15,000				
Mar-11	43	159,100	49,803	3.8%	7.5	4.0	0.0	517,500	161,993	1.0	1.0	0.5	4,100	3,940	3,657,238	122,615	0.00402	284,608	25	59,000				
Apr-11	45	166,500	53,692	3.9%	7.0	4.0	0.0	495,000	159,625	2.0	3.0	2.0	3,130	4,540	3,775,666	120,761	0.00384	280,385	27	70,300				
May-11	24	88,800	28,051	3.8%	5.5	4.5	0.0	450,000	142,150	2.0	2.0	2.5	4,960	3,920	3,779,618	139,958	0.00444	282,108	39	101,500				
Jun-11	78	288,600	85,043	3.5%	3.5	5.0	0.0	382,500	112,713	3.0	2.0	2.0	3,500	3,560	3,775,666	111,156	0.00353	223,869	36	96,000				
Jul-11	138	510,600	150,712	3.5%	4.0	0.0	0.0	180,000	53,130	1.5	2.5	1.0	3,740	3,550	3,714,476	112,917	0.00365	166,047	51	127,500				
Aug-11	91	336,700	103,837	3.7%	2.0	2.0	0.0	180,000	55,511	2.0	2.0	1.5	2,840	3,110	3,736,190	92,700	0.00298	148,212	47	118,500				
Sep-11	52	192,400	57,488	3.6%	0.0	1.0	0.0	45,000	13,446	2.5	2.5	1.5	2,530	2,900	3,753,952	85,001	0.00272	98,447	68	175,000				
Oct-11	33	122,100	45,361	4.5%	0.0	3.0	0.0	135,000	50,153	2.0	2.5	1.0	3,470	2,940	3,723,357	99,524	0.00321	149,678	17	42,500				
Nov-11	0	-	0	4.5%	3.0	2.5	0.0	247,500	92,887	2.0	3.0	2.0	4,610	3,775	3,666	145,165	0.00461	238,051	18	45,500				
Dec-11	5	18,500	3,549	2.3%	6.0	3.0	0.0	405,000	77,694	3.0	4.0	0.0	3,850	3,724	3,334	119,585	0.00385	197,279	15	37,500				
Jan-12	46	170,200	51,317	3.6%	5.5	3.5	0.0	405,000	122,112	2.0	1.5	0.0	4,060	3,652	3,662,167	124,002	0.00406	246,114	18	43,500				
Feb-12	42	155,400	46,472	3.6%	4.5	3.0	0.0	337,500	100,929	1.0	1.0	0.0	3,380	3,635	3,524	102,483	0.00338	203,411	17	42,500				
Mar-12	12	44,400	14,627	4.0%	5.5	2.0	0.0	337,500	111,185	2.0	2.0	1.5	2,890	2,310	3,736,190	81,016	0.0026	192,201	39	103,500				
Apr-12	86	318,200	90,939	3.4%	2.0	1.0	0.0	135,000	38,582	2.0	2.5	2.5	2,870	3,060	3,788,499	93,682	0.00297	132,264	37	86,500				
May-12	47	173,900	42,646	2.9%	3.0	2.0	0.0	225,000	55,177	2.0	2.0	2.0	3,070	3,590	3,757,904	104,365	0.00333	159,543	26	65,000				
Jun-12	56	207,200	60,513	3.5%	1.0	3.0	0.0	180,000	52,569	1.0	3.0	1.0	3,560	2,890	3,714,476	96,809	0.00313	149,378	55	138,000				
Jul-12	45	166,500	44,127	3.2%	5.0	0.0	0.0	225,000	59,631	2.0	1.5	1.0	3,650	3,410	3,705,595	109,093	0.00353	168,725	36	80,000				
Aug-12	0	-	0	0.0%	2.5	2.5	0.0	225,000	59,631	1.0	2.0	1.5	3,440	2,390	3,718,428	90,399	0.00292	150,030	36	80,000				
Sep-12	33	122,100	29,161	2.9%	4.5	3.0	0.0	337,500	80,605	2.0	0.0	2.5	3,080	2,910	3,744,094	93,521	0.003	174,126	37	91,500				
Oct-12	40	148,000	41,473	3.4%	4.5	0.0	0.0	202,500	56,745	1.5	0.0	1.5	3,160	3,320	3,691,785	99,758	0.00324	156,503	33	76,500				
Nov-12	52	192,400	62,487	3.9%	2.0	2.0	0.0	180,000	58,460	0.0	5.0	2.0	3,970	3,090	3,775,666	111,156	0.00353	169,616	32	66,500				
Dec-12	9	33,300	9,720	3.5%	5.0	1.5	0.0	292,500	85,378	4.0	1.5	0.0	4,030	2,720	3,697,691	104,081	0.00338	189,459	48	120,000				
Jan-13	0	-	0	3.5%	6.0	2.5	0.0	382,500	111,852	1.5	2.0	0.0	4,120	4,010	3,662,167	124,155	0.00407	235,807	26	65,000				
Feb-13	0	-	0	3.5%	6.0	5.0	0.0	495,000	144,491	1.0	2.0	1.0	4,000	3,740	3,696,714	119,314	0.00387	263,805	56	110,000				
Mar-13	8	29,600	8,517	3.5%	8.0	6.5	0.0	652,500	187,748	2.0	2.0	1.0	4,030	4,050	3,714,476	123,915	0.004	311,663	21	52,500				
Apr-13	74	273,800	89,488	3.9%	6.0	6.0	0.0	540,000	176,492	2.5	2.0	2.0	4,620	4,130	3,766,785	135,084	0.0043	311,575	24	60,000				
May-13	82	303,400	95,228	3.8%	3.5	4.0	0.0	337,500	105,931	3.0	5.0	2.0	3,970	3,040	3,828,952	111,767	0.0035	217,698	36	85,500				
Jun-13	54	199,800	62,210	3.7%	6.0	3.0	0.0	405,000	126,101	1.0	7.0	2.0	3,850	3,540	3,828,952	117,994	0.0037	244,095	47	117,500				



Electric Cost



Kilowatts Used



Electric Cost Kilowatts Used

Jan-11	3547	65,206
Feb-11	3757	72,752
Mar-11	4309	84,045
Apr-11	5092	101,440
May-11	7876	103,396
Jun-11	8505	108,021
Jul-11	8983	114,906
Aug-11	8382	103,698
Sep-11	3848	75,430
Oct-11	3697	73,005
Nov-11	3345	64,695
Dec-11	3064	61,670
Jan-12	2784	53,291
Feb-12	2962	57,492
Mar-12	4200	83,720
Apr-12	3943	76,650
May-12	7120	84,700
Jun-12	8431	106,650
Jul-12	8404	100,910
Aug-12	8121	99,190
Sep-12	4653	87,730
Oct-12	3588	67,820
Nov-12	3050	58,850
Dec-12	3472	68,170
Jan-13	4240	66,990
Feb-13	4069	65,810
Mar-13	4056	67,500
Apr-13	5132	83,390
May-13	9135	95,360
Jun-13	9331	107,780



**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-13		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			19.7	3.186	7.9				5.1		20.7		
2	7.5			18.7	2.291	7.8				4.5		20.2		
3	7.1			19.9	1.505	7.9				5.9	<20	20.5		
4	7.2			19.5	1.555	7.9				5.4		20.1		
5	7.3			18.5	1.471	7.9				5.7		19.8		
6	7.2			19.7	1.793	7.9			0.19	5.2		19.9		
7	7.3	225	248	19.6	1.730	7.7	1.0	1.4		6.8		20	99.6	99.4
8	7.2			19.6	1.803	7.9				5.3		19.6		
9	7.3			19.4	1.957	7.8				5.0		20.1		
10	7.3			20	1.817	7.9				5.1	<20	20.6		
11	7.3			20.4	1.624	7.9				6.5		21.3		
12	7.4			21.1	1.514	7.8				6.3		22.8		
13	7.3			20.7	1.581	8.0			0.13	6.1		22.8		
14	7.4	273	326	20.6	1.556	7.8	1.3	1.2		5.0		22.9	99.5	99.6
15	7.4			20.3	1.685	7.9				4.8		22.3		
16	7.5			20.9	1.993	7.9				5.0		22.4		
17	7.4			21.3	1.742	7.9				6.5	<20	22.8		
18	7.4			21.1	1.607	7.9				5.4		22.4		
19	7.3			21.2	1.576	8.0				5.5		22.7		
20	7.3			21.3	1.441	7.9			0.2	5.5		23		
21	7.3	230	224	22.2	1.647	7.9	1.3	0.8		5.0		23.8	99.4	99.6
22	7.3			22.1	1.766	7.9				5.1		24.1		
23	7.2			22.6	2.076	7.9				4.8		24.6		
24	7.3			22.5	1.893	8.0				5.0	<20	24.5		
25	7.3			23	1.692	7.9				5.0		25		
26	7.3			23	1.583	8.0				5.2		24.9		
27	7.3			22.8	1.662	8.0			0.24	4.8		25.2		
28	7.4	205	236	22.6	1.816	8.0	0.9	1.4		5.2		25	99.6	99.4
29	7.4			22.9	1.817	8.0				5.3		24.1		
30	7.4			22.8	2.137	7.9				5.6		23.2		
Total					53.516									
Avg		233	259	21	1.784		1.1	1.2	0.2	5.4	<20	22.4	99.5	99.5
Min	7.1	205	224	19	1.441	7.7	0.9	0.8	0.1	4.5	<20	19.6	99.4	99.4
Max	7.5	273	326	23	3.186	8.0	1.3	1.4	0.2	6.8	<20	25.2	99.6	99.6

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4	<5.0		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
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		1.7	4,140	800	20.6	1.6	3,710	730	20.4	66	2.75	7:30
2		1.4	4,430	800	20	2.2	4,140	800	19.9	62		7:30
3		2.4	4,510	800	20.3	2.5	4,480	780	20.2	60		7:30
4		2.5	4,620	790	19.8	2.1	4,430	770	19.9	62		7:30
5	5,709	3.8	3,930	670	19.7	2.7	4,620	790	19.7	62		7:30
6	5,554	3.5	3,930	560	19.7	1.5	4,800	800	19.7	62	0.2	7:30
7	3,518	2.0	4,310	710	19.9	1.7	4,200	720	19.8	59		7:30
8		2.6	4,830	810	19.4	2.2	3,930	660	19.5	56		7:30
9		1.4	4,850	790	20.1	1.7	3,620	600	20.1	66		7:30
10		1.1	4,830	790	20.9	1.3	4,010	680	20.6	62	0.2	7:30
11	7,036	1.7	4,120	680	21.4	1.4	4,870	840	21.2	66		7:30
12	6,172	1.7	4,300	660	22.6	1.7	4,500	760	22.3	78		7:30
13		1.7	4,340	650	22.8	1.4	4,390	720	22.4	71		7:30
14		1.7	4,150	610	22.5	1.1	4,960	800	22.3	66		7:30
15		2.8	3,460	570	22.2	1.6	4,510	820	22.3	69		7:30
16		1.7	3,400	490	22.3	1.6	3,810	650	22.3	69	0.2	7:30
17		1.7	4,170	660	22.9	1.6	4,470	830	22.8	69	0.25	7:30
18		1.7	4,380	750	22.2	2.5	3,990	740	22.2	64		7:30
19	5,184	2.5	4,490	690	22.4	3.2	3,790	660	22.2	64	0.2	7:30
20	6,172	1.5	4,120	600	23	2.3	4,290	680	22.9	69		7:30
21		1.5	4,810	700	23.6	1.7	4,410	660	23.5	73		7:30
22		1.8	4,320	610	24	1.7	4,030	610	23.8	74		7:30
23		1.3	4,070	560	24.5	1.6	3,380	430	24.2	71		7:30
24	5,092	1.0	5,390	830	24.2	1.5	3,150	430	23.9	72		7:30
25	6,665	1.3	4,010	570	24.9	1.3	3,350	470	24.5	79		7:30
26	5,554	1.6	3,830	460	24.8	1.3	4,240	590	24.7	80		7:30
27	5,555	1.3	4,690	680	25	1.4	3,600	500	24.6	72		7:30
28		1.6	3,950	510	24.7	1.3	4,390	650	24.7	72	0.75	7:30
29		1.9	4,100	570	24	1.8	3,410	490	24	70		7:30
30		2.2	3,850	550	23.1	1.6	3,540	600	23.1	66		7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	7/3/2013
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	7/3/2013

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

****Required 1/week**

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR JUNE 2013

[illegible]

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

Prepared by (34) File TH

Approved by: GH

Date

Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1604108

June 12, 2013 through June 14, 2013

Tests performed by:

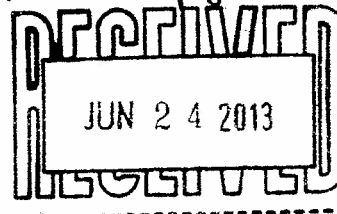
John P. Clippard / Chemical Analyst at Environmental Analysis South (EAS)

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)

Handwritten: Mailed Copy to MDNR on 6/27/13



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)

Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1604108

June 12, 2013 through June 14, 2013

1. REPORT SUMMATION:

1.1. Multiple Dilution Data Summation

Test Solution	<i>Pimephales promelas</i> Acute Toxicity Test 48 Hour Survival	<i>Ceriodaphnia dubia</i> Acute Toxicity Test 48 Hour Survival
Reconstituted Control (RC)	100%	100%
Upstream Control (UC)	100%	100%
6.25% Effluent	100%	100%
12.5% Effluent	100%	100%
25% Effluent	100%	100%
50% Effluent	95%	100%
100% Effluent	100%	100%
Estimated 48 Hour LC ₅₀ Value	>100% Effluent	>100% Effluent
To Pass: 1. Effluent - LC50 must be >100% and 2. All concentrations = or < AEC must not have significant difference to control in survival.	1. Yes 2. Yes	1. Yes 2. Yes
Result of Toxicity Test	PASS	PASS

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

Conclusion:

Pimephales promelas 48 hour WET results:

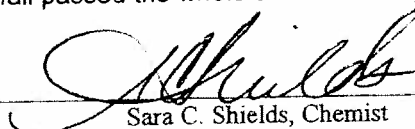
LC 50 >100% by Trimmed Spearman-Kärber
NOAEC = 100% using Steel's Many-One Rank Test

Ceriodaphnia dubia 48 hour WET results:

LC 50 > 100% by the Graphical Method
NOAEC = 100% using Steel's Many-One Rank Test

Based on these results, the outfall passed the whole effluent toxicity test with both species.

Approved by _____


Sara C. Shields, Chemist

Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1604108

June 12, 2013 through June 14, 2013

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	2
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.

Environmental Analysis South, Inc.

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REPORT OF ACUTE TOXICITY TESTING Alliance-Lake of the Ozarks Outfall 001, 24 hr composite, AEC=100% MO-0103241 EAS LOG# 1604108 June 12, 2013 through June 14, 2013

2.2. REFERENCE TOXICITY TEST:

Environmental Analysis South performs monthly reference toxicity tests. The most recent reference test was initiated on June 5, 2013 using KCL Lot #41713. Following are the results:

2.2.1. *P. promelas* - 48 hr. Acute Test – LC_{50} = 0.892 g/l 95%CI (0.682-1.102 g/l)

EAS %CV = 11.8%

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} = 0.516 g/l 95%CI (0.414-0.618g/l)

EAS %CV = 9.9%

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.

CLIENT NAME: Alliance -Lake of the Ozarks, Outfall 001, 24 hr composite

NPDES NUMBER: MO-0103241

NPDES NUMBER: MO-0103241

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

DATE & TIME OF COLLECTION: 06/10/13 0900 hrs - 06/11/13 0900 hrs by Gary Hutchcraft

DATE & TIME OF SUBMISSION:	06/12/13 1010 hrs by UPS
----------------------------	--------------------------

Collected: 06/11/13 0905 hrs by Gary Hutchcraft

Upstream: Bowling Hollow Creek

[illegible][illegible][illegible]

[Signature]

Date: 07/08/2013

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

Alliance -Lake of the Ozarks, Outfall 001, 24 hr composite EAS LOG# 1604108

Analyst 1: DFW
Analyst 2: KJR
Analyst 3: SCS

Date Test Began: June 12, 2013 Time Test Began: 1100 hrs
Date Test Finished: June 14, 2013 Time Test Finished: 1100 hrs

HATCH NUMBER: 8752 c-k

AGE: 3 days

P. promelas (PP)

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

HATCH NUMBER: 2698 c-k

AGE: <24 hours

Ceriodaphnia dubia (CD)

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

Approved by: *[Signature]*

Date: Oct 20 / 13

Alliance -Lake of the Ozarks, Outfall 001, 24 hr composite EAS#: 1604108

[illegible]

Prepared by: Wid

Date: 06/20/13

multiple
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ENVIRONMENTAL ANALYSIS SOUTH, INC.
4000 East Jackson Blvd
Jackson, MO 63755
Phone: (573) 204-8817 Fax: (573) 204-8818



122050

WHOLE EFFLUENT TOXICITY TESTING CHAIN OF CUSTODY

CLIENT: Alliance Lake Ozark

NPDES PERMIT NUMBER: MO-0103241

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

COLLECTION DATA: START DATE: 6/10/13 START TIME: 9:00 AM

FINISH DATE: 6/11/13 FINISH TIME: 9:00 AM

UPSTREAM NAME: BOWLING HOLLOW CREEK (GRAB SAMPLE)
(LEGAL NAME)

COLLECTION DATA: DATE: 6/11/13 TIME: 9:05 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 BY NEXT DAY CARRIER OR DELIVER TO LAB ON 6-12-13 ☐
SAMPLES TO BE HAND DELIVERED TO LABORATORY SAME DAY AS TEST SETUP ☐
SUFFICIENT ICE TO COOL SAMPLES TO A RANGE OF 0 - 6 °C WHEN SHIPPING OVERNIGHT ☐

RELINQUISHED BY: Gary Hutchcraft DATE: 6/11/13 TIME: 9:30 AM

LABORATORY USE ONLY EFFLUENT

LOG NUMBER: 1604108

RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

UPSTREAM

LOG NUMBER: 1604108 A

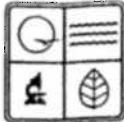
RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

RECEIVED BY: Ann Wagner DATE: 6/12/13 TIME: 1010

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 Alliance-Lake of the Ozarks	DATE & TIME COLLECTED EFFLUENT <u>06/10/13 0900-06/11/13 0900</u> UPSTREAM <u>06/11/13 0905</u>
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 <u>1604108</u> UPSTREAM <u>1604108A</u>	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 Multiple Dilution	
FINAL REPORT NUMBER MO_1604108	TEST DURATION 48 hour	
DATE OF LAST REFERENCE TOXICANT TESTING June 5, 2013	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 06/12/13 1010 hrs by UPS	TEST START DATE AND TIME 06/12/13 1100 hrs	TEST END DATE AND TIME 06/14/13 1100 hrs
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT _____ UPSTREAM _____	TEST ORGANISM #1 AND AGE Pimephales promelas 3 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 upstream 1604108A
FILTER MESH SIEVE SIZE ² None	EFFLUENT ORGANISM #1 % MORTALITY AT AEC LC50>100% Effluent	EFFLUENT ORGANISM #2 % MORTALITY AT AEC LC50>100% Effluent
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	06/12/13 1020 hrs
pH Standard Units	8.05	SM18 4500-H B	06/12/13 1020 hrs
Conductance µMohs	1390	SM18 2510B	06/12/13 1020 hrs
Dissolved Oxygen mg/L	8.39	SM18 4500-O G	06/12/13 1020 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	06/12/13 1020 hrs
Unionized Ammonia mg/L	1.48x0.05=0.074	SM18 4500-NH3 F @ 25 degree C	06/12/13 1200 hrs
*Total Alkalinity mg/L	271	SM18 2320B	06/12/13 1500 hrs
*Total Hardness mg/L	340	SM18 2340 C	06/12/13 1020 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 SAMPLE³

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	6	SM18 2550B stored at 4 degree C until test setup	06/12/13 1020 hrs
pH Standard Units	8.03	SM18 4500-H B	06/12/13 1020 hrs
Conductance µMohs	542	SM18 2510B	06/12/13 1020 hrs
Dissolved Oxygen mg/L	8.31	SM18 4500-O G	06/12/13 1020 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	06/12/13 1020 hrs
Unionized Ammonia mg/L	<0.05x0.05<0.010	SM18 4500-NH3 F @ 25 degree C	06/12/13 1200 hrs
*Total Alkalinity mg/L	271	SM18 2320B	06/12/13 1500 hrs
*Total Hardness mg/L	260	SM18 2340 C	06/12/13 1020 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.