

**OSAGE BEACH/LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JULY 15, 2014
4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, Penny Lyons
Mayor, Lake Ozark, Johnnie Franzeskos
City Administrator, Osage Beach, Nancy Viselli
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Lake Ozark, Gerry Murawski
Alderman, Osage Beach, Phyllis Marose
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Gary Hamner

3. MINUTES

Regular Meeting; June 17, 2014

Page Numbers

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4. REPORTS

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Revenue Budget Analysis	17
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Check Registers & Bank Statements	23-26
June 2014 Alliance and Flow Reports	28-57

5. OLD BUSINESS

Magruder Update

6. NEW BUSINESS

- A. Lake Ozark-Osage Beach Joint Sewer Treatment Audit Report and Audit Communications Letter
- B. Discussion and possible action – Use of USDA Community Facility program to finance purchase of backup generator

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 19, 2014, 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK - OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – June 17, 2014**

Call to Order:

Mayor Penny Lyons called the meeting to order at 4:00 p.m. at Lake Ozark City Hall.

Roll Call:

Present: Mayor Penny Lyons
Mayor John Franzekos
City Administrator, Nancy Viselli
City Administrator, Dave Van Dee
Lake Ozark Public Works Director, Matt Michalik
Osage Beach Public Works Supervisor, Eric Hibdon
Gary Hamner

Absent: Osage Beach Alderman, Phyllis Marose
Lake Ozark Alderman, Gerry Murawski

Others Present: Gary Hutchcraft, Plant Manager
Gary Johnson, Alliance Water Resources
Mike Welty, Osage Beach Staff Accountant
Ed Rucker, Osage Beach City Attorney

MINUTES OF PAST MEETING:

Mayor Lyons requested a motion to approve the May 20th meeting minutes. Mayor Franzekos motioned to approve the minutes; second by Public Works Director Michalik, all voted and unanimously approved.

PUBLIC COMMENT: None to report

BILLS LIST: Mayor Lyons asked for a motion to approve the Bills List. Mayor Franzekos motioned to approve the bills list, second by City Administrator Van Dee. All voted and unanimously approved.

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 2014 Alliance Report and Flow Chart summary report of operations, a copy of which is included in the meeting packet.

Gary reported that he has received five (5) bids for installing metal roofing over the shingles of the Blower building down at the Digesters that are in bad shape. Dam Steel, Midwest Roofing, Ellerman Construction, Martin Metal and Merchant Construction submitted the bids. Gary recommended we use Merchant Construction.

With no further discussion, Mayor Lyons asked for a motion to approve the bid from Merchant Construction to install metal roofing over the shingles of the Blower building down at the Digesters. Mayor Franzekos motioned to approve the bid, second by Public Works Director Michalik. All voted and unanimously approved.

Mayor Lyons asked for a motion to approve the May 2014 Flow Charts. Public Works Supervisor Hibdon motioned to approve the May 2014 Flow Charts, second by Osage Beach City Administrator Viselli. All voted and unanimously approved.

OLD BUSINESS:

Magruder Litigation Update

Mayor Lyons said Attorney Steve Mauer has received the closed session recorded meeting and still waiting on a date to go before Judge Compton.

NEW BUSINESS: None to report

OTHER DISCUSSION:

Osage Beach City Attorney, Ed Rucker, gave us an update from Lois East with the Dept. of Agriculture regarding funding for the generator. Ed said that the Joint Sewer Board qualifies and may be eligible for one of their loans. Lois wanted to know what kind of security we have for the debt, would we be able to issue bonds. Ed advised that since the generator would cost approx. \$2,000.00 it's not worth issuing bonds and the Joint Sewer Board will probably not issue bonds because of the size of the debt and the Joint Sewer Board does not have any income. Ed asked Lois to check into a promissory note and has not heard back from her yet.

ADJOURMENT:

With nothing further to discuss, Mayor Lyons adjourned the meeting at 4:12 pm. The next scheduled meeting is Tuesday, July 15, 2014, 4:00 pm. at Lake Ozark City Hall.

Penny Lyons
Osage Beach Mayor

Mardonna Phillips
Lake Ozark Joint Sewer Clerk

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JOINT SEWER BOARD

BILL LIST

July 15, 2014

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	36,559.09
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-
TOTAL	\$	36,559.09

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

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

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3382	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4170	3383	Alliance Water Resources, Inc.	July 2014 Management Fee	\$ 24,037.09
4160	3384	Alliance Water Resources, Inc.	Hauled Waste	\$ 1,220.00
4150	3385	Alliance Water Resources, Inc.	Vehicle Maintenance & Repair	\$ 120.36
4020	3386	JCI	Pump Repair	\$ 4,511.00
4220	3387	Zerger & Mauer	Magruder Lawsuit	\$ 1,303.47
4200	3388	Gerding, Korte, & Chitwood	2013 Audit	\$ 1,900.00

\$ 36,559.09

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: 6087
01-Jul-14
Customer No: 20220
Terms: 30 days

SOLD TO:

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

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Jul-14 Base Fee	\$24,037.09
TOTAL DUE		\$24,037.09

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: 6121

Invoice Date: 30-Jun-14

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Jun-14	
	2 Hauled waste loads @ \$10.00 each	\$20.00
	24 Hauled waste loads @ \$50.00 each	\$1,200.00
TOTAL DUE		\$1,220.00

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: 6088

Invoice Date: 01-Jul-14

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Purcell Tire Co. - 2 Invoices - 50%	\$120.36
TOTAL DUE		\$120.36

SEND PAYMENTS
ONLY TO:PURCELL TIRE CO
P.O. BOX 207649
ST. LOUIS, MO 63120-3649PURCELL TIRE AND SERVICE CENTER
990 VIRGINIA AVEOSAGE BEACH, MO
65065

573/348-4010

NONSIG #: 000163267

CUSTOMER: ALLIANCE WATER RESOURCE

D/B/A LO/DB JOINT

#3 ANDERSON RD

2000441 P O BOX 1985

LAKE OZARKS MO

65049

WORK: 573/365-0455

HOME: 573/365-0455

SALESMAN: 02025

INVOICE DATE: 06/17/14

PICKUP AT STORE: Y

VENDOR REQ: CUSTOMER: 2000441

VENDOR: 001

DOC#:

2076784

TRANS CODE: B

ALLIANCE WATER RESOU GOODYEAR

VENDOR CUSTOMER: 0009960

NONSIG:

VEHICLE TYPE: TK TRUCK

INVOICE #: 2076784

PAGE: 1

TIME STARTED: 15:01:13

TIME CLOSED: 16:13:53

2000441

ALLIANCE WATER RESOURCES

PO BOX 1985

LAKE OZARK, MO

65049

Q

Q

VEHICLE: 2009 SERVICE CALL

LICENSE: MO

MO MILEAGE:

1

TERMS: NET 10TH

PRODUCT	MECHANIC	QUANTITY	PRICE	F.E.T.	EXTENSION
A2 SMALL FLAT RATE	2016	1	90.00		90.00
046122					
FUEL SURCHARGE		1.00	25.00		25.00
FUEL1					
REPLACE VALVE CORE ON RIGHT REAR, LEFT REAR WASN'T LEAKING HAD 96LBS AIR					
AIRED TIRE UP TO 100PSI					
SLUGS TRUCK					
SHOP MATERIALS			8.05		8.05
093200					

GL Acct#: 6262-2062.12 1270-2061.53

Signature: *Larry Hulse*

Date: 7/2/14

GOVERNMENT

MERCHANDISE: 8.05

LABOR: 115.00

SALES TAX: 0.60

INVOICE TOTAL: 123.65

*****THIS IS A REPRINTED INVOICE*****

123.65

doh

S

Y

LARRY

89999999

F/S/E FED/STATE/INDIAN

ULTIMATE TAX CERTIFICAT

P.O. NUMBER

GS/AN # 1

Customer Signature: _____

Printed Name: _____

1

SERVICE CHARGES : 1 1/2% PER MONTH (18% ANNUAL RATE) ON ALL PAST DUE AMOUNTS.



SEND PAYMENTS
ONLY TO:

PURCELL TIRE CO.
P.O. BOX 503649
ST. LOUIS, MO 63150-3649

PURCELL OSAGE BEACH
990 VIRGINIA AVE

OSAGE BEACH, MO
65065

573/348-4010

NONSIG #: 000163267

CUSTOMER: ALLIANCE WATER RESOURCE

D/B/A LO/OB JOINT

#3 ANDERSON RD

2000441

P O BOX 1985

LAKE OZARKS MO

65049

WORK: 573/365-0455

0

HOME: 573/365-0455

0

VEHICLE: 2001 DODGE DAKOTA

SALESMAN: 02060

INVOICE DATE: 06/19/14

PICKUP AT STORE: Y

VENDOR REQ: CUSTOMER: 2000441

VENDOR: 001

DOC#:

2076884

TRANS CODE: B

ALLIANCE WATER RESOU GOODYEAR

VENDOR CUSTOMER: 0009960

NONSIG:

VEHICLE TYPE: TK TRUCK

INVOICE #: 2076884

PAGE: 1

TIME STARTED: 07:57:35

TIME CLOSED: 09:19:21

ACCT#:

2000441

SHIP TO:

ALLIANCE WATER RESOURCES

PO BOX 1985

LAKE OZARK, MO

65049

WORK: 573/365-0455

0

HOME: 573/365-0455

0

VEHICLE: 2001 DODGE DAKOTA

SALESMAN: 02060

INVOICE DATE: 06/19/14

PICKUP AT STORE: Y

VENDOR REQ: CUSTOMER: 2000441

VENDOR: 001

DOC#:

2076884

TRANS CODE: B

ALLIANCE WATER RESOU GOODYEAR

VENDOR CUSTOMER: 0009960

NONSIG:

VEHICLE TYPE: TK TRUCK

MILEAGE: 82461

TERMS: NET 10TH

GOVERNMENT AND LOCAL

PRODUCT	MECHANIC	QUANTITY	PRICE	F.E.T.	EXTENSION
COOLING SYSTEM MAINTENANCE	2012	1	109.95		109.95

097262C

SHOP MATERIALS

093200

GL Acct#: 6702-20 67.62 1220-20 58.83

7.70

Signature: Gary Hutchcraft

Date: 6/19/14

MERCHANDISE:

117.65

SALES TAX:

8.80

INVOICE TOTAL:

126.45

CHARGE ACCOUNT

4150

126.45

vin 15269588

*****THANK YOU FOR STOPPING BY YOUR LOCAL PURCELL TIRE AND AUTO CENTER*****

*****TIRE & SERVICE NETWORK NATION WIDE WARRANTY 1-800-426-0733*****

F/S/E FED/STATE/INDIAN

S

ULTIMATE TAX CERTIFICAT

Y

P.O. NUMBER

1

GS/AN # 1

69999999

Customer Signature :

Gary Hutchcraft

Printed Name:

GARY HUTCHCRAFT

SERVICE CHARGES: 1 1/2% PER MONTH (15% ANNUAL RATE) ON ALL PAST DUE AMOUNTS.

INVOICE

Remit To:

JCI Industries, Inc
PO Box 411114
Kansas City, MO 64141
816-525-3320



Invoice Number	
8089636	
Invoice Date	Page
6/20/2014 11:54:10	1 of 1
Sales Order Number	
1075204	

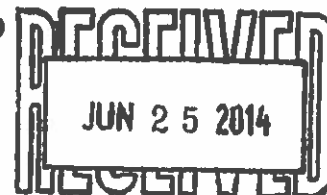
Branch: 06 JEFFERSON CITY

Bill To:

LAKE OZARK - OSAGE BEACH
JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049

Ship To:

ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049



Customer ID: 400263

PO Number					Terms Description		Net Due Date		
VERBAL GARY HUTCHCRAFT-1					Net 30		7/20/2014		
Order Date		Pick Ticket No		Primary Salesrep Name				Order Taker	
4/2/2014 08:42:21		3084466		Kevin Schupp II				HHASKELL	
Quantities					Item ID Item Description		Pricing UOM Unit Size	Unit Price	Extended Price
Ordered	Shipped	Remaining	UOM Unit Size	Dty.					
1.00	1.00	0.00	EA	1.0	P ALLIANCE WATER RES 4-1-14 FLYGT 3102.180		EA 1.0000	4,511.00	4,511.00

Total Lines: 1

SUB-TOTAL: 4,511.00

TAX: 0.00

Carrier: JCI TO DELIVER

Tracking #:

AMOUNT DUE: 4,511.00

U.S. Dollars

Merchandise cannot be returned without permission. Claims for shortages or errors must be made in writing within thirty (30) days after receipt of goods. All approved returns must include a JCI return authorization number and may be subject to a restocking fee up to 25%.

4020

ORIGINAL

ZERGER & MAUER LLP

1101 Main Street

Suite 2100

Kansas City, MO 64105 (816) 759-3300 Federal ID No. 27-1426971

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: 06/23/2014
 Statement No. 12967
 Page No. 1

Fees

		Rate	Hours	
05/13/2014				
EDC	Follow up with reporter on transcription of hearing in front of LRC.	160.00	0.50	80.00
SEM	Telephone conference with T. Duggan and J. Dobbs regarding record and plan for hearing; prepare notes regarding same; attorney conference regarding same.	280.00	0.50	140.00
05/15/2014				
EDC	Follow up on transcription of hearing in front of LRC.	160.00	0.20	32.00
05/19/2014				
SEM	Review proposed order regarding 2008 case and new matter; prepare letter to J. Dobbs regarding same; prepare letter to Mayor Lyons, E. Rucker and N. Viselli regarding same. NO CHARGE	280.00		
05/20/2014				
HEZ	Revise brief to include argument from September 2013 hearing.	350.00	3.00	1,050.00
SEM	Telephone conference with Judge Conley regarding schedule; calendar new dates for same; attorney conference regarding same; prepare notes regarding same. NO CHARGE	280.00		
	For Current Services Rendered		4.20	1,302.00

Expenses

05/15/2014	Postage	0.49
05/20/2014	Postage	0.98
	Total Expenses	1.47
	Total Current Work	1,303.47

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

City of Osage Beach
Account No. 1014.0002
RE: Magruder

Statement Date: 06/23/2014
Statement No. 12967
Page No. 2

Previous Balance	\$3,032.36
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Balance Due	<u>\$4,335.83</u>
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GRANT & KORTEN SMITH LLP

1000 CITY PARK WAY

OSAGE BEACH, MO 65065

TEL: 660.882.7744

FAX: 660.882.7745

22904

06/25/14

LAKE OZARK - OSAGE BEACH
JOINT SEWER TREATMENT PROJECT
1000 CITY PARK WAY
OSAGE BEACH, MO 65065

We now accept Mastercard, Visa & Discover

FOR PROFESSIONAL SERVICES:

AUDIT OF FINANCIAL STATEMENTS FOR THE YEAR
ENDED DECEMBER 31, 2013.

TOTAL DUE \$ 1,900.00

C 22904

ACCOUNTS UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A FINANCE CHARGE OF 1 1/2% PER MONTH.

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

Account Number	Account Name	6/30/2014				Percent YTD
		2012 Actual	2013 Actual	2014 Budget	2014 Actual as of 6/30/2014	
3020	Osage Beach	403,305.55	452,145.77	456,500.00	227,645.86	50%
3010	Lake Ozark	86,694.44	92,854.22	93,500.00	47,354.50	51%
3100	Interest	537.49	34.50	35.00	11.39	33%
3060	Waste Haulers' Fee	40,820.00	41,460.00	41,000.00	14,240.00	35%
Total Operating Fund		531,357.48	586,494.49	591,035.00	289,251.75	49%
E/R Fund Income		1,374.82	1,320.11	1,350.00	335.11	25%
TOTAL INCOME		532,732.30	587,814.60	592,385.00	289,586.86	49%

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**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2014**

Account Number	Account Name	2012 Actual	2013 Actual	2014 Budget	2014 Actual as of 6/30/2014	2014 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	0.00	0.00	0.00	
4020	*Maintenance & Repair	88,400.79	19,273.37	108,500.00	8,313.81	378.15	8%
4140	Insurance	20,962.00	15,489.00	18,000.00	16,502.00	0.00	92%
4150	***Vehicle Repair/Maint	5,649.28	1,352.11	13,000.00	168.92	0.00	1%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	5,900.00	1,200.00	74%
4170	Contract Management	272,948.40	281,409.84	288,500.00	144,222.54	24,037.09	50%
4185	Electric	60,862.46	71,923.84	75,000.00	29,560.77	8,324.96	39%
4200	Audit	1,700.00	1,750.00	1,800.00	0.00	0.00	0%
4220	Professional Service	168,904.97	119,683.73	30,000.00	27,931.92	3,032.36	93%
4240	Capital Purchases	0.00	5,748.00	30,000.00	0.00	0.00	0%
	Totals	696,995.38	594,197.37	614,406.04	253,402.98	40,439.73	41%
	**E/R Expenses	5,368.50	4,260.00	28,000.00	2,228.18	0.00	8%
	TOTAL EXPENSES	702,363.88	598,457.37	642,406.04	255,631.16	40,439.73	40%
	<u>Professional Services</u>						
	Normal/Magruder Lawsuit	30,000.00					5,000.00
							500.00
							2,000.00
							6,000.00
							50,000.00
							45,000.00
							108,500.00
	<u>Capital Purchases</u>						
	Generator (Saving for Future Purchase)	30,000.00					3,000.00
							10,000.00
							13,000.00
							3,000.00
	<u>**Equipment & Replacement</u>						
	Normal E/R	10,000.00					
	Replace doors PD \$2,228.18	2,000.00					
	Rebuild Ducking Skimmer Clarifier #2	3,500.00					
	Rebuild Arm Support Clarifier #1 & 2	5,000.00					
	Storage Building	4,500.00					
	Metal Roof on Blower Building	3,000.00					
		28,000.00					
	<u>***Vehicle Repair/Maint</u>						
	Vehicle Maintenance						
	Repair/Repaint Sludge Truck						
							3,000.00
							10,000.00
							13,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2014

Beginning Balance	56,899.25
Income - Osage Beach	38,367.11
Income - Lake Ozark	7,466.22
Income - Other	0.00
Income - Waste Haulers' Fees	2,440.00
Interest - Checking	2.37
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-3,467.17
Expenses	-36,972.56
Ending Fund Balance	64,735.22
NOW Account - Central Bank	64,735.22
Outstanding Checks:	0.00
Deposit in Transit:	0.00
	64,735.22

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2014

Beginning Balance	391,086.27
Interest - Checking	14.42
Income - CD Interest	0.00
Transfers From E/R Fund	3,467.17
Transfers to E/R Fund	0.00
Income - Miscellaneous	0.00
Expenses	0.00
Ending Fund Balance	394,567.86
NOW Account - First Bank	103,266.89
CD First National Bank, 07/14 #000048178	113,453.04
CD Providence Bank, 07/14	76,390.48
CD First National Bank, 07/14 #000049153	101,457.45
Deposit in Transit	0.00
Outstanding Checks:	0.00
	394,567.86

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Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 3/31/14			58,805.99
3362	ER Fund Transfer	X	3,467.17	55,338.82
3363	Alliance Water Resources, Inc.	X	24,037.09	31,301.73
3364	Alliance Water Resources, Inc.	X	1,810.00	29,491.73
3365	Alliance Water Resources, Inc.	X	1,154.73	28,337.00
3366	UV Doctor	X	4,783.30	23,553.70
3367	Zerger & Mauer	X	1,501.39	22,052.31
3368	Naught-Naught	X	16,502.00	5,550.31
3369	Ameren UE	X	4,426.73	1,123.58
	Deposit	X		37,474.51
	Deposit	X		8,358.82
	Deposit	X		3,000.00
	Interest	X		2.16
	reconciled balance 4/30/14			49,959.07
3370	Ameren UE	X	4,296.70	45,662.37
3371	ER Fund Transfer	X	3,467.17	42,195.20
3372	Alliance Water Resources, Inc.	X	24,037.09	18,158.11
3373	Alliance Water Resources, Inc.	X	1,500.00	16,658.11
3374	Alliance Water Resources, Inc.	X	652.53	16,005.58
	Deposit	X		38,968.91
	Deposit	X		6,864.42
	Deposit	X		2,400.00
	Interest	X		2.19
	reconciled balance 5/31/14			64,241.10
3375	Zerger & Mauer	X	7,341.85	56,899.25
3376	Ameren UE	X	8,324.96	48,574.29
3377	ER Fund Transfer	X	3,467.17	45,107.12
3378	Alliance Water Resources, Inc.	X	24,037.09	21,070.03
3379	Alliance Water Resources, Inc.	X	1,200.00	19,870.03
3380	Alliance Water Resources, Inc.	X	378.15	19,491.88
3381	Zerger & Mauer	X	3,032.36	16,459.52
	Deposit	X		38,367.11
	Deposit	X		7,466.22
	Deposit	X		2,440.00
	Interest	X		2.37
	reconciled balance 6/30/14			64,735.22



Central Bank of Lake of the Ozarks

MEMBER FDIC

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

001148

Return Service Requested



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

Period 06/01/2014-06/30/2014 Page 1 of 2

Web Address www.cbolobank.com

7

Your Financial Summary on Jun

Account Balances & Other Assets

\$ 64,735.22
\$ 64,735.22

Detailed Explanation of Account Balances and Other Assets

Checking

Beginning Balance May 30, 2014 \$ 64,241.10

Deposits

June 11 Deposit	220.00
June 13 Deposit	7,466.22
June 13 Deposit	38,367.11
June 18 Deposit	2,220.00
June 30 Interest Earned	2.37

Total +\$ 48,275.70

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3375	June 06	7,341.85	3379	June 19	1,200.00
3376	June 20	8,324.96	3380	June 19	378.15
3377	June 20	3,467.17	3381	June 30	3,032.36
3378	June 19	24,037.09			

Total -\$ 47,781.58

Ending Balance June 30, 2014 \$ 64,735.22

Number of days since last statement/interest cycle 30
Beginning and ending dates for calculation of statement/interest cycle are 06/01/2014 through 06/30/2014
Average collected balance 71,986.00
Interest rate 0.04%
Annual percentage yield earned 0.04%

JSB - CHECK REGISTERS 2013

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

				reconciled balance 7/31/13		59,849.63
	Interest	X		7.50		59,857.13
	Deposit	X		5,797.29		65,654.42
						65,654.42
	reconciled balance 8/31/13					65,654.42
	Interest	X		8.72		65,663.14
	Deposit	X		5,797.29		71,460.43
	reconciled balance 9/30/13					71,460.43
	Interest	X		9.37		71,469.80
	Deposit	X		5,797.29		77,267.09
	reconciled balance 10/31/13					77,267.09
	Interest	X		9.26		77,276.35
	Deposit	X		5,797.29		83,073.64
1005	Check	X	4,260.00			78,813.64
	reconciled balance 11/30/13					78,813.64
	Interest	X		10.70		78,824.34
	Deposit	X		5,797.29		84,621.63
	reconciled balance 12/31/13					84,621.63
	Interest	X		10.84		84,632.47
	Deposit	X		3,467.17		88,099.64
1006	Check	X	2,228.18			85,871.46
	reconciled balance 1/31/14					85,871.46
	Interest	X		10.00		85,881.46
	Deposit	X		3,467.17		89,348.63
	reconciled balance 2/28/14					89,348.63
	Interest	X		11.54		89,360.17
	Deposit	X		3,467.17		92,827.34
	reconciled balance 3/31/14					92,827.34
	Interest	X		11.63		92,838.97
	Deposit	X		3,467.17		96,306.14
	reconciled balance 4/30/14					96,306.14
	Interest	X		11.99		96,318.13
	Deposit	X		3,467.17		99,785.30
	reconciled balance 5/31/14					99,785.30
	Interest	X		14.42		99,799.72
	Deposit	X		3,467.17		103,266.89
	reconciled balance 6/30/14					103,266.89



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

536 C
ACCOL
DOCUM

PAGE: 1
06/30/2014

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LAKE OZARK-CSAGE 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 noninterest-bearing depository institution, including all noninterest-bearing accounts, will be insured by the FDIC up to the standard insurance category. For more information about FDIC insurance on noninterest-bearing transaction accounts, visit <http://www.fdic.gov/deposit/expiration.html>

BUSINESS MMDA /

LAST STATEMENT 05/30/14 99,785.30
2 CREDITS 3,481.59
DEBITS .00
THIS STATEMENT 06/30/14 103,266.89

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
06/16 3,467.17

DESCRIPTION OTHER CREDITS DATE AMOUNT
INTEREST 06/30 14.42

AVERAGE LEDGER BALANCE: 101,239.27 INTEREST EARNED: 14.42
AVERAGE AVAILABLE BALANCE: 101,015.58 DAYS IN PERIOD: 31
INTEREST PAID THIS PERIOD: 14.42 ANNUAL PERCENTAGE YIELD EARNED: .175
INTEREST PAID 2014: 70.42

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



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**OPERATING
DIVISIONS**

MISSOURI

Atchison County

Bonne Terre

Boonville

Bowling Green

Buchanan County #1

Cameron

Cape Girardeau

Craig

**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 2014

Submitted by Alliance Water Resources, Inc. for the

July 2014

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 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	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.4	1.4	NA	< 20		.14	<5.0	NA
Peak Day	1.7	2.8	8.1	< 20		.75	<5.0	NA
Percent Removal	99.4	99.6	NA	NA		NA	NA	NA

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		1.2	10	4.0
Weekly Average	45	45		630				
Daily Max						5.6	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.959 MGD or 65% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. 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 120183 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 61 tanker loads of bio-solids during the month equivalent to a total of 151,700 gallons and 40,455 pounds dry weight solids.

264,947 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 5.5 feet in Tank 1 and 3.5 feet in Tank 2.

WASTEHAULERS

The plant received 26 loads of septage during the month totaling 61,000 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)

SAFETY

- We conducted our monthly routine Safety Meeting on Work Area Protection & Traffic Around Job Sites on the 10th of June.

REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 7th of July.
- We received the 2nd quarter 503 sludge lab results on the 23rd of June and everything looked good. (see attachment)
- We received the results to our Annual WET test on the 24th of June and we passed with 100% survival on both species, which is great. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

- We have received 3 bids for the replacement of the old metal storage building in front of the Administration building. The Home Depot, Lowes and Magic Dragon Motor Co. on 42 highway in Kaiser. We would recommend the building from Magic Dragon Motor Co., due to it being a locally owned business and having the best warranty.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 2014

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		0.262	1.522	1.784	14.7	85.3						
2-Jun	0.2	0.241	1.456	1.697	14.2	85.8						
3-Jun		0.196	1.322	1.518	12.9	87.1						
4-Jun	1.6	0.253	1.503	1.756	14.4	85.6						
5-Jun		0.273	1.734	2.007	13.6	86.4						
6-Jun		0.249	1.542	1.791	13.9	86.1	150	320	385	266	490	652
7-Jun	0.4	0.289	1.585	1.874	15.4	84.6						
8-Jun	0.3	0.365	1.861	2.226	16.4	83.6						
9-Jun		0.289	1.480	1.769	16.3	83.7						
10-Jun	1.5	0.413	2.259	2.672	15.5	84.5						
11-Jun	0.2	0.289	1.877	2.166	13.3	86.7						
12-Jun		0.242	1.603	1.845	13.1	86.9						
13-Jun	0.5	0.304	1.786	2.090	14.5	85.5	165	175	203	126	188	190
14-Jun		0.288	1.698	1.986	14.5	85.5						
15-Jun		0.312	1.812	2.124	14.7	85.3						
16-Jun		0.279	1.694	1.973	14.1	85.9						
17-Jun		0.216	1.526	1.742	12.4	87.6						
18-Jun		0.230	1.508	1.738	13.2	86.8						
19-Jun		0.221	1.556	1.777	12.4	87.6						
20-Jun		0.270	1.579	1.849	14.6	85.4	180	225	193	134	218	206
21-Jun		0.301	1.786	2.087	14.4	85.6						
22-Jun		0.333	1.862	2.195	15.2	84.8						
23-Jun	0.1	0.305	1.839	2.144	14.2	85.8						
24-Jun	0.25	0.273	1.781	2.054	13.3	86.7						
25-Jun		0.251	1.565	1.816	13.8	86.2						
26-Jun		0.235	1.505	1.740	13.5	86.5						
27-Jun		0.246	1.617	1.863	13.2	86.8	220	200	200	184	216	228
28-Jun		0.279	1.748	2.027	13.8	86.2						
29-Jun		0.328	1.932	2.260	14.5	85.5						
30-Jun		0.310	1.878	2.188	14.2	85.8						
SUM	5.1	8.342	50.416	58.758								
AVG		0.278	1.681	1.959	14	86	179	230	245	178	278	319
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

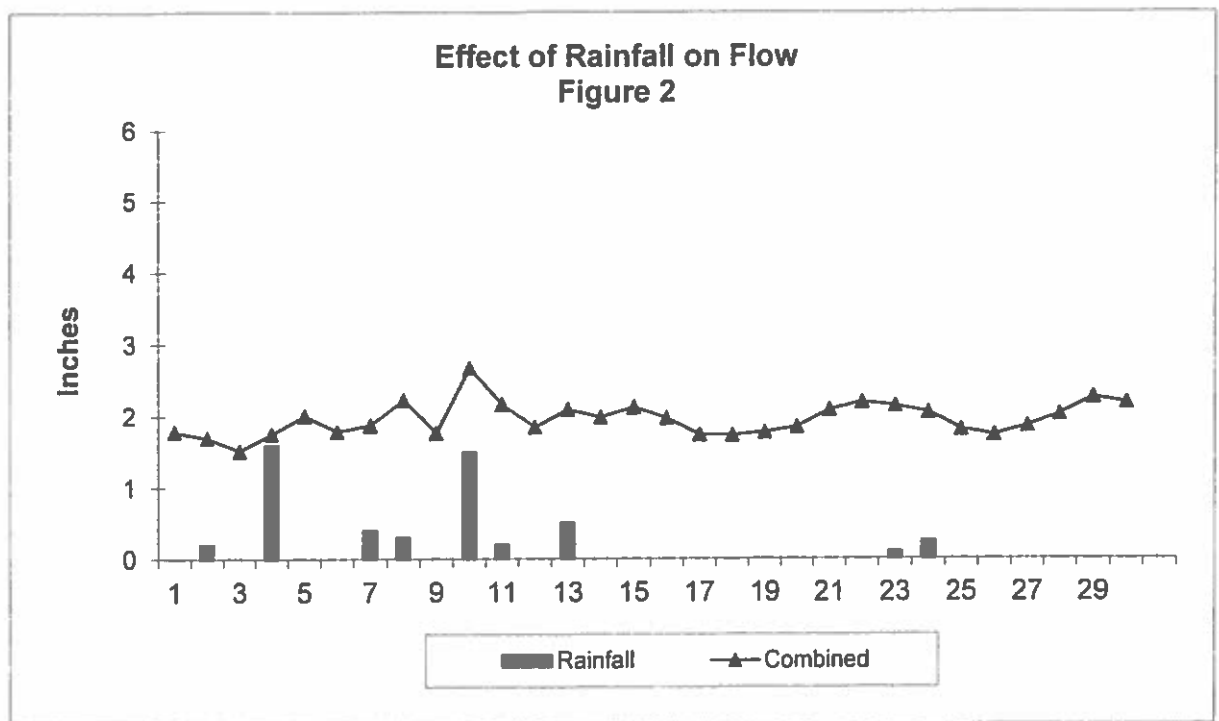
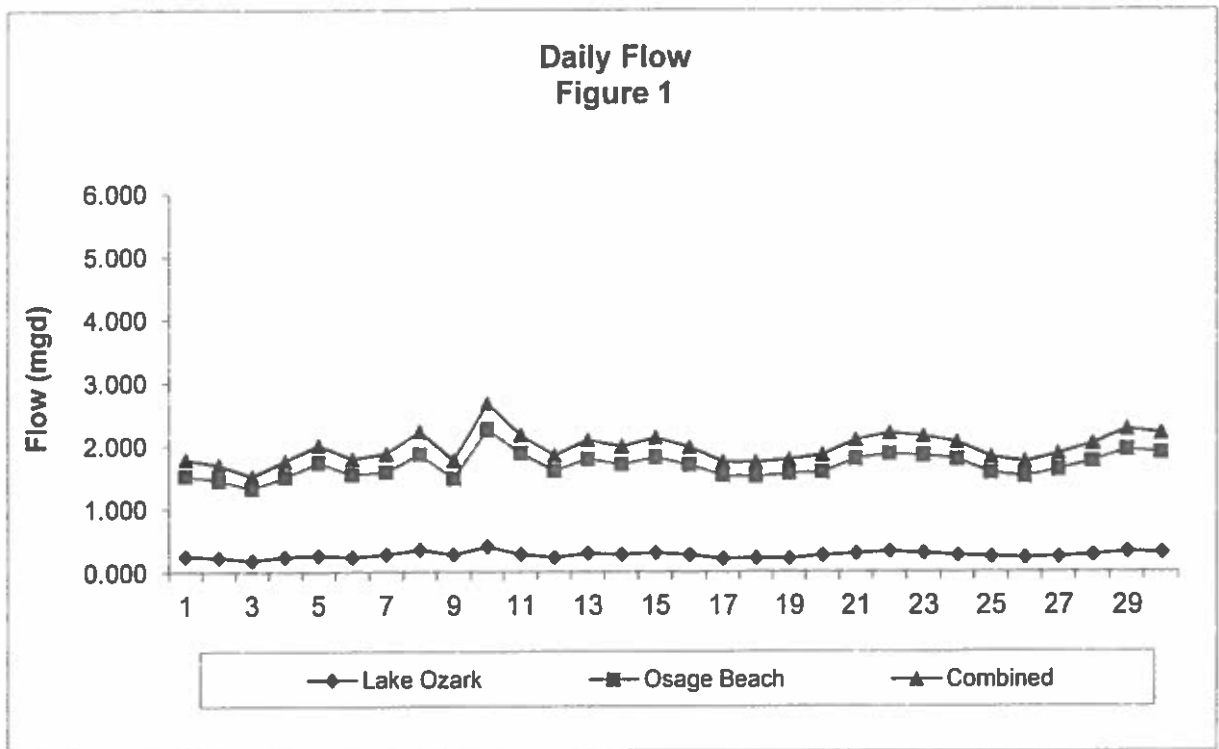


TABLE B
JOINT SEWER BOARD
Monthly Flows

<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%
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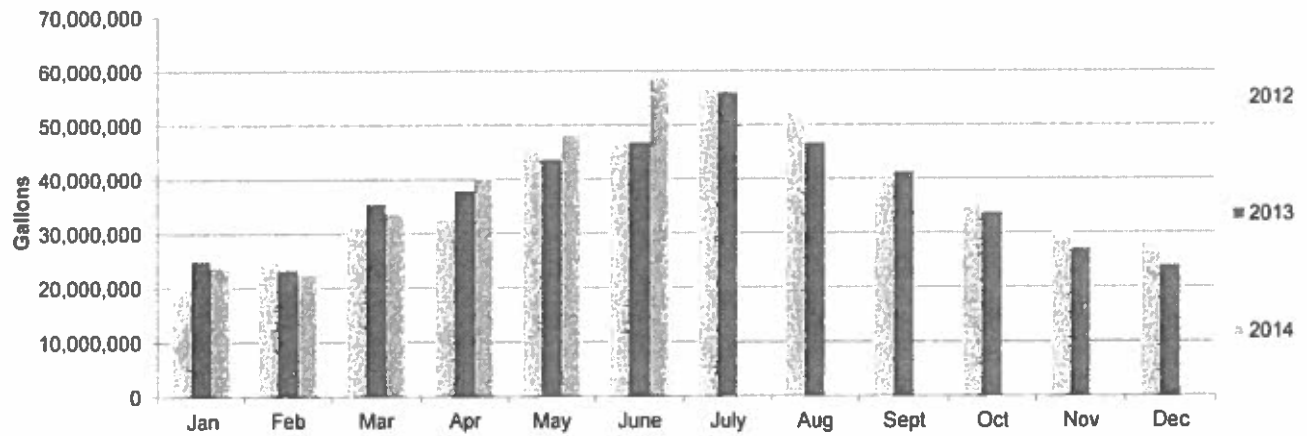
<u>2013</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	19,923,000	83%	4,104,000	17%	24,027,000	100%
February	4.2	19,290,000	83%	3,979,000	17%	23,269,000	100%
March	5.3	28,232,000	82%	6,308,000	18%	34,540,000	100%
April	8.7	31,410,000	81%	7,507,000	19%	38,917,000	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	2.2	46,803,000	84%	8,794,000	16%	55,597,000	100%
August	15.0	45,742,000	83%	9,351,000	17%	55,093,000	100%
September	2.3	33,128,000	83%	6,869,000	17%	39,997,000	100%
October	3.6	27,722,000	82%	5,996,000	18%	33,718,000	100%
November	2.5	22,915,000	83%	4,775,000	17%	27,690,000	100%
December	2.5	19,507,000	83%	4,038,000	17%	23,545,000	100%

56.6	367,124,000	83%	76,466,000	17%	443,590,000	100%
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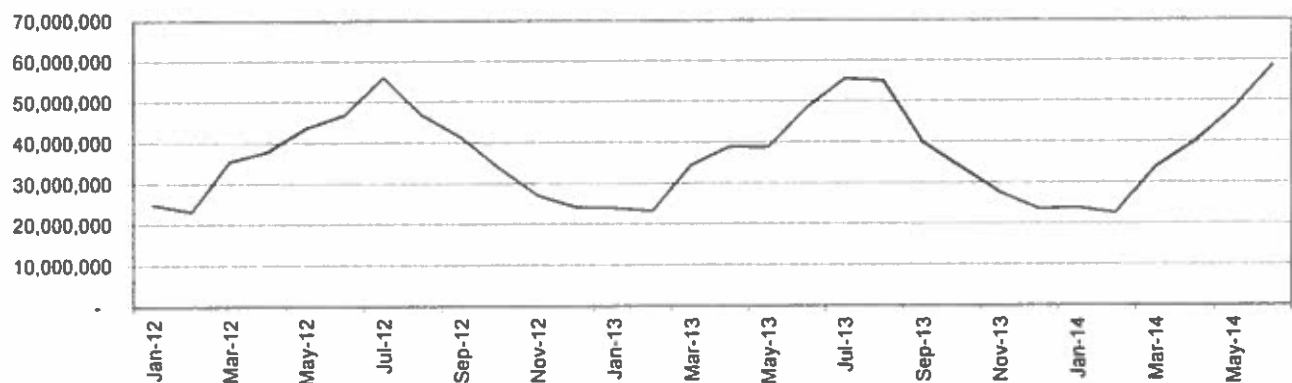
<u>2014</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	3.0	19,229,000	81%	4,634,000	19%	23,863,000	100%
February	1.3	18,444,000	82%	4,114,000	18%	22,558,000	100%
March	1.2	28,731,000	85%	5,061,000	15%	33,792,000	100%
April	5.1	33,479,000	84%	6,515,000	16%	39,994,000	100%
May	4.7	41,054,000	85%	7,129,000	15%	48,183,000	100%
June	5.1	50,416,000	86%	8,342,000	14%	58,758,000	100%
July							
August							
September							
October							
November							
December							

20.3	191,353,000	84%	35,795,000	16%	227,148,000	100%
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Monthly Influent Flow
Figure 3A

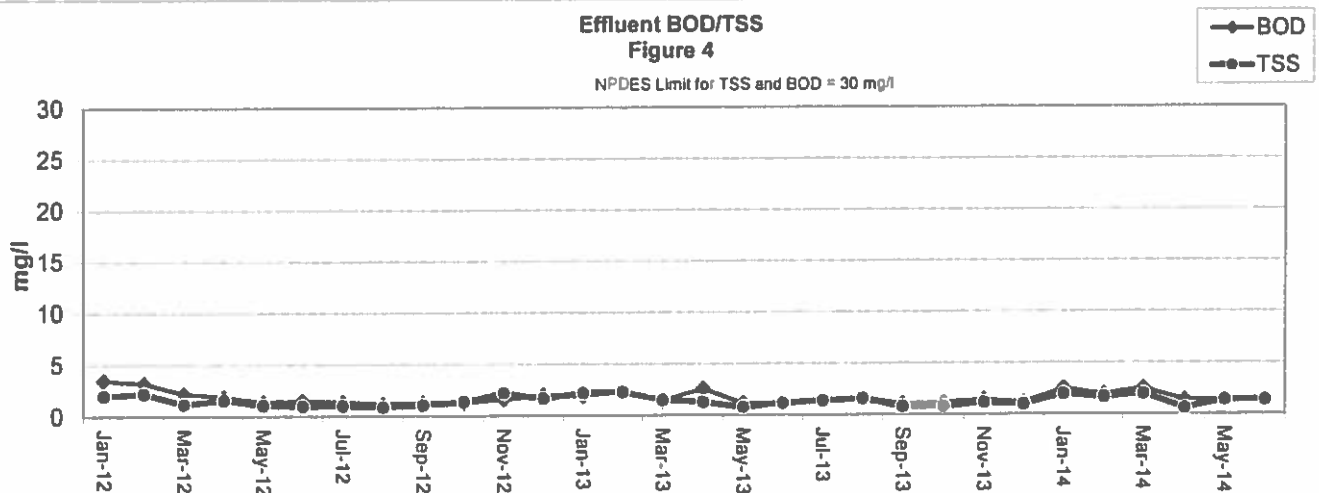


Monthly Influent Flow
Figure 3B

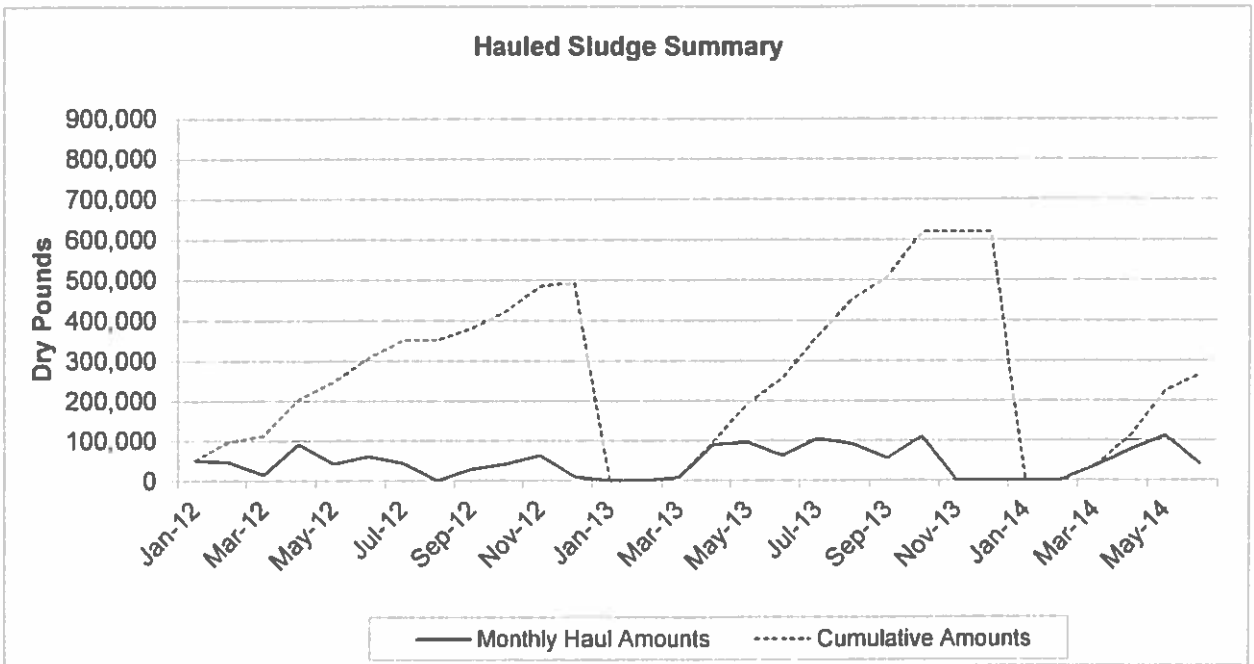
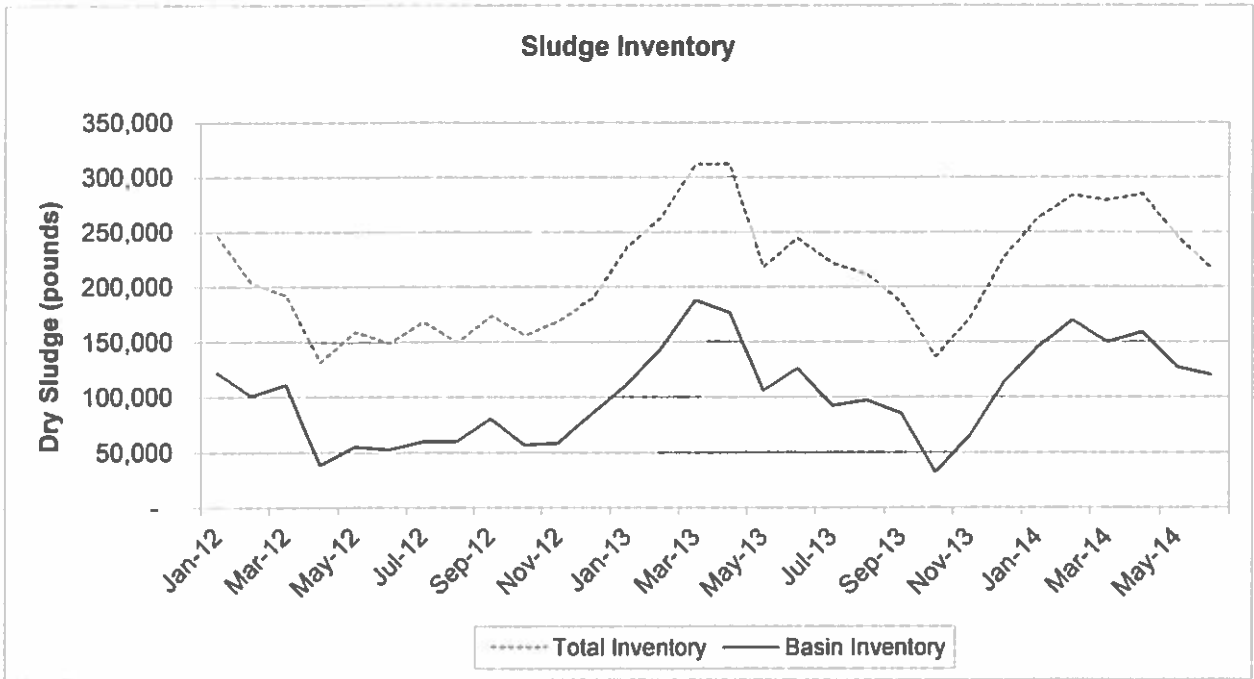


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



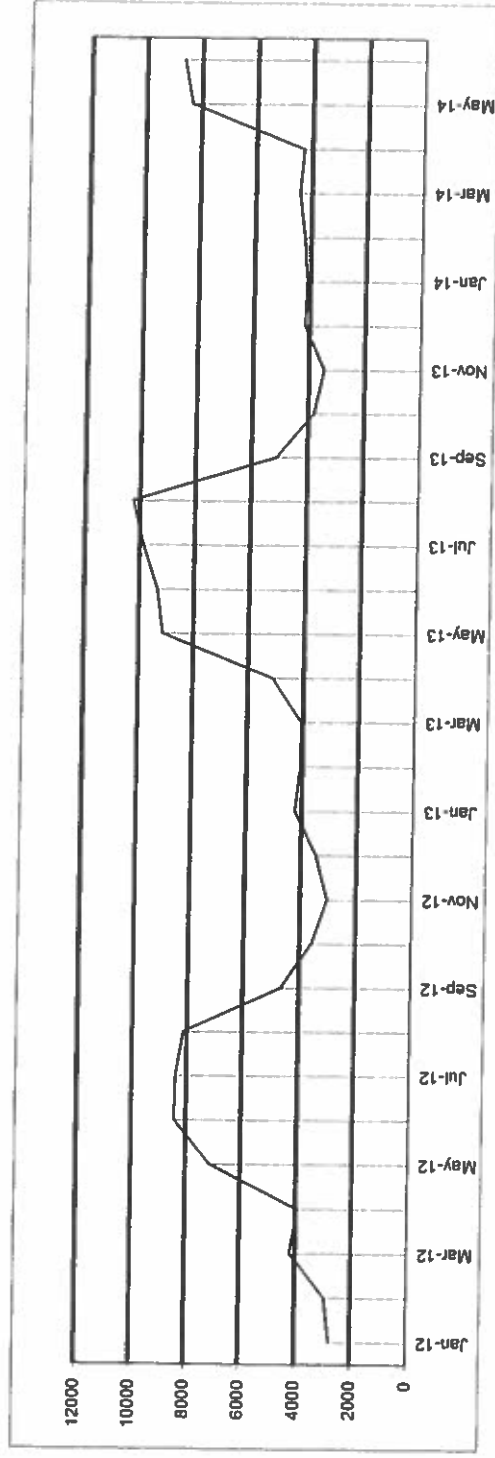
Date	Loads	Hauled Sludge		Basin Depths		Blanket Depths		MLSS Inventory		Blanket and MLSS Inventory		MLSS		Total Dry		Accepted Septage Loads	Gallons
		# Dry	% Solids	Tank #1	Tank #2	AB #1	AB #2	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Studge Inventory				
Jan-12	46	170,200	3.6%	5.5	3.5	0.0	0.0	405,000	122,112	122,112	0.0	0.0	4,060	2.0	1.5	18	43,500
Feb-12	42	155,400	3.6%	4.5	3.0	0.0	0.0	337,500	100,929	100,929	1.0	0.0	3,380	1.0	1.0	17	42,500
Mar-12	12	44,400	4.0%	5.5	2.0	0.0	0.0	337,500	111,165	111,165	2.0	0.0	2,990	2.0	2.0	39	103,500
Apr-12	86	318,200	3.4%	3.0	1.0	0.0	0.0	135,000	38,582	38,582	2.0	2.5	2,870	2.0	2.5	37	86,500
May-12	47	173,900	4.2%	2.0	0.0	0.0	0.0	225,000	55,177	55,177	2.0	2.0	3,070	2.0	2.0	26	65,000
Jun-12	56	207,200	3.5%	1.0	3.0	0.0	0.0	180,000	52,569	52,569	1.0	3.0	3,590	1.0	3.0	55	138,000
Jul-12	45	166,500	4.1%	5.0	0.0	0.0	0.0	225,000	59,631	59,631	2.0	1.5	3,650	2.0	1.5	36	80,000
Aug-12	0	-	0.0%	350,641	2.5	2.5	0.0	225,000	59,631	59,631	1.0	2.0	3,410	1.0	2.0	36	80,000
Sep-12	33	122,100	2.9%	4.5	3.0	0.0	0.0	337,500	60,605	60,605	2.0	0.0	3,440	2.0	0.0	37	91,500
Oct-12	40	148,000	3.4%	4.5	0.0	0.0	0.0	202,500	56,745	56,745	1.5	0.0	3,160	1.5	0.0	33	76,500
Nov-12	52	192,400	3.9%	483,762	2.0	2.0	0.0	180,000	58,460	58,460	0.0	5.0	3,970	0.0	5.0	32	66,500
Dec-12	9	33,300	3.5%	5.0	1.5	0.0	0.0	292,500	85,378	85,378	4.0	1.5	4,030	4.0	1.5	48	120,000
Jan-13	0	-	0.0%	6.0	2.5	0.0	0.0	382,500	111,652	111,652	1.5	2.0	4,120	1.5	2.0	26	65,000
Feb-13	0	-	0.0%	6.0	5.0	0.0	0.0	495,000	144,491	144,491	1.0	2.0	4,000	1.0	2.0	56	110,000
Mar-13	8	29,600	3.5%	8.0	6.5	0.0	0.0	652,500	187,748	187,748	2.0	2.0	4,030	2.0	2.0	21	52,500
Apr-13	74	273,600	3.9%	6.0	6.0	0.0	0.0	540,000	176,482	176,482	2.5	2.0	4,620	2.5	2.0	24	60,000
May-13	82	303,400	3.9%	3.5	4.0	0.0	0.0	337,500	105,931	105,931	3.0	5.0	3,970	3.0	5.0	36	85,500
Jun-13	54	199,800	3.7%	6.0	3.0	0.0	0.0	405,000	126,101	126,101	1.0	7.0	3,540	1.0	7.0	58	137,500
Jul-13	97	358,900	3.5%	6.0	1.0	0.0	0.0	315,000	92,301	92,301	1.5	2.0	3,950	1.5	2.0	47	117,500
Aug-13	74	273,600	4.0%	6.5	0.0	0.0	0.0	292,500	97,182	97,182	2.0	2.5	3,980	2.0	2.5	57	142,500
Sep-13	48	177,600	3.8%	5.0	1.0	0.0	0.0	270,000	85,240	85,240	2.0	1.5	3,150	2.0	1.5	39	97,500
Oct-13	83	307,100	4.3%	2.0	0.0	0.0	0.0	90,000	32,375	32,375	2.0	2.0	2,950	2.0	2.0	32	80,000
Nov-13	0	-	0.0%	4.0	0.0	0.0	0.0	180,000	64,552	64,552	1.0	0.0	3,220	1.0	0.0	15	37,500
Dec-13	0	-	0.0%	5.0	2.0	0.0	0.0	315,000	112,965	112,965	0.0	0.5	3,600	0.0	0.5	19	47,500
Jan-14	0	-	0.0%	4.0	5.0	0.0	0.0	405,000	145,241	145,241	2.0	2.5	3,690	2.0	2.5	22	54,500
Feb-14	0	-	0.0%	5.0	5.5	0.0	0.0	472,500	169,448	169,448	1.5	2.5	3,410	1.5	2.5	6	15,000
Mar-14	29	107,300	4.0%	5.0	5.0	0.0	0.0	450,000	148,733	148,733	0.5	0.5	4,270	0.5	0.5	35	90,500
Apr-14	65	240,500	3.8%	7.5	3.5	0.0	0.0	495,000	158,845	158,845	1.5	1.0	4,420	1.5	1.0	30	75,000
May-14	96	355,200	3.8%	5.5	3.5	0.0	0.0	405,000	127,261	127,261	1.0	2.0	3,550	1.0	2.0	24	60,000
Jun-14	41	151,700	3.2%	4.5	5.5	0.0	0.0	450,000	120,005	120,005	3.0	2.0	3,530	3.0	2.0	25	61,000



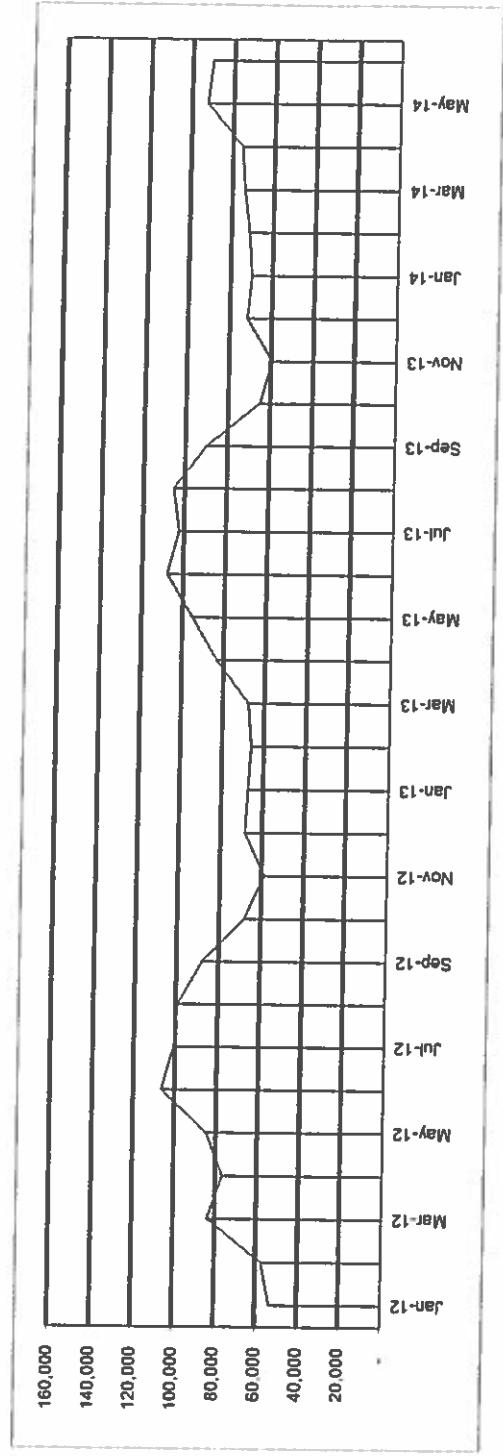
Electric Cost Kilowatts Used

Electric Cost

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
Jul-13	9861	102,490
Aug-13	10255	105,350
Sep-13	5108	89,830
Oct-13	3806	64,870
Nov-13	3459	59,610
Dec-13	4171	71,660
Jan-14	4116	69,690
Feb-14	4226	71,330
Mar-14	4427	73,840
Apr-14	4297	75,240
May-14	8325	92,580
Jun-14	8643	90,400



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-14		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			20.5	1.908	8.0				7.2		22.3		
2	7.3			20.5	1.800	8.0				7.0		22.4		
3	7.4			21.7	1.625	8.0				6.6	<20	23.3		
4	7.4			21.2	1.773	7.9				5.8		23.1		
5	7.3			20.9	2.142	8.0			0.03	6.8		22.6		
6	7.4	385	652	21	1.941	8.0	1.5	2.8		6.7		22.3	99.6	99.6
7	7.3			20.8	1.916	8.0				5.3		21.8		
8	7.4			20.7	2.380	7.9				5.4		21.6		
9	7.3			20.6	1.955	8.0				6.4	<20	21.5		
10	7.4			20.4	3.067	7.9				5.0		21.1		
11	7.4			20.6	2.301	8.0				5.2		21.2		
12	7.4			20.1	2.004	7.9			0.03	5.7		21		
13	7.3	203	190	20.4	2.318	7.9	1.1	0.8		5.7		20.9	99.5	99.6
14	7.5			19.9	2.043	8.0				6.2		20.3		
15	7.3			20.7	2.228	8.0				5.7		20.9		
16	7.4			21.8	2.107	7.9				6.3	<20	22.2		
17	7.5			21.8	1.811	7.9				6.5		23.2		
18	7.3			21.9	1.704	8.0				7.1		23.2		
19	7.4			21.5	1.813	7.7			0.02	6.4		23.3		
20	7.3	193	206	21.7	1.917	8.0	1.3	1.6		5.7		24.3	99.3	99.2
21	7.3			22.3	20.170	8.0				5.7		24.2		
22	7.3			22.2	2.189	8.0				5.8		24.2		
23	7.4			22.4	2.153	7.8				5.4	<20	24.1		
24	7.3			22.3	2.173	8.0				6.2		23.7		
25	7.3			22.3	1.791	8.1				6.7		23.7		
26	7.4			22.2	1.821	8.0			0.04	6.6		23.6		
27	7.5	220	228	23.1	1.943	8.0	1.7	0.4		6.1		24.1	99.2	99.8
28	7.5			23.3	1.984	8.0				6.4		24.4		
29	7.5			23	2.358	8.0				6.9		23.9		
30	7.4			23.6	2.274	8.0				5.9		25		
Total					79.609									
Avg		250	319	22	2.654		1.4	1.4	0.03	6.1	<20	22.8	99.4	99.5
Min	7.3	193	190	20	1.625	7.7	1.1	0.4	0.02	5.0	<20	20.3	99.2	99.2
Max	7.5	385	652	24	20.170	8.1	1.7	2.8	0.04	7.2	<20	25.0	99.6	99.8

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4			
5			
6			
7			
8			
9	< 5.0		
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 *Ambient Temp ° F	*RAIN inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		2.7	3,810	420	22.2	2.4	4,080	510	22	70		7:30
2	5,246	1.6	3,980	430	22.3	2.1	3,850	470	22.2	69		7:30
3	6,295	1.4	3,730	400	23.5	1.8	4,250	510	23	71		7:30
4		1.3	4,140	430	23	1.6	3,430	370	22.8	71	1.6	7:30
5		1.9	4,120	460	22.3	2.1	4,860	460	22.3	71		7:30
6		1.6	4,740	650	22.1	2.3	3,400	400	21.5	69		7:30
7		1.5	3,530	380	21.6	1.4	4,270	520	21.5	69	0.4	7:30
8		1.4	4,040	450	21.3	1.7	3,520	400	21.1	65	0.3	7:30
9		1.4	4,330	530	21.3	1.7	3,680	450	21.1	64		7:30
10		0.9	5,110	600	21.1	1.5	3,690	420	21.1	67	1.5	7:30
11		1.8	3,670	430	21	1.5	3,970	480	21	66	0.2	7:30
12		1.8	4,020	480	20.7	1.4	4,170	550	20.7	62		7:30
13		1.9	3,170	380	20.7	1.8	4,140	550	20.6	61	0.5	7:30
14		2.5	3,480	400	19.8	3.3	3,470	430	19.9	57		7:30
15		1.4	4,840	640	20.9	2.9	3,240	400	20.9	69		7:30
16		1.4	4,940	570	22.9	2	3,300	360	22.3	69		7:30
17		1.4	3,980	480	23.7	1.8	3,750	490	23.3	77		7:30
18	8,147	2.4	3,010	330	24.1	1.3	1,950	200	23.6	77		7:30
19	9,165	1.4	3,230	340	23.9	1.4	4,290	530	23.9	74		7:30
20		1.1	3,970	450	24	1.3	3,590	430	23.8	72		7:30
21		1.3	4,260	570	23.9	1.6	3,060	330	23.7	72		7:30
22		1.0	4,610	570	24.1	1.6	3,160	360	23.7	71		7:30
23		1.1	4,030	500	23.8	1.4	3,260	390	23.6	70	0.1	7:30
24		1.2	4,600	570	23.4	2.2	3,420	350	23.4	69	0.25	7:30
25		1.7	4,240	490	23.4	2.9	3,500	420	23.2	66		7:30
26	6,048	3.0	4,000	480	23.2	2.8	3,750	480	23.2	68		7:30
27		1.5	3,460	430	24.2	1.4	3,740	520	23.9	72		7:30
28		1.5	3,910	300	24.7	1.9	5,000	500	24.1	76		7:30
29		1.7	3,940	320	23.7	2.3	4,990	480	23.1	70		7:30
30		1.3	3,530	410	25.1	1.8	2,630	290	24.8	78		7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)

John Hornback

REPORT APPROVED BY (PRINT)

Gary Hutchcraft

SIGNATURE

John Hornback

SIGNATURE

Gary Hutchcraft

PHONE #

(573)365-0455

PHONE #

(573)365-0455

DATE

7/3/2014

DATE

7/3/2014

*Required Daily (Monday - Friday)

**Required 1/week

Use boldface type, address labels, Return, Stop, Forward, Cancel, PC-partly cloudy

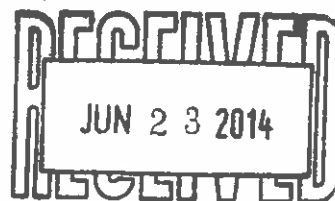
Date 7/3/2014

Environmental Analysis South, Inc

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

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

Report Number: 126061



Report of Analysis

Reference:

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

Log Number: 1706917 Sample Description: Quarterly Sludge Sample Date: 5/6/2014 Sample Received Date: 5/7/2014

Coli S

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Fecal Coliform in Sludge	10000	CFU/g	SM-9222 D-97		05/07/14	102
Total Solids Average	4.31	% w/w	SM-2540 G-97		05/07/14	102

Nutrients

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Phosphorus	24500	mg/Kg	SM-20 4500-P E-99		05/12/14	133

PAN Group

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Ammonia as Nitrogen	11,000	mg/Kg	Lachat-10-107-06-1-K		06/06/14	102
Kjeldahl Nitrogen	17,100	mg/Kg	Lachat-10-107-06-2-K		05/29/14	102
Nitrate as Nitrogen	471	mg/Kg	EPA-300.0 Rev. 2		05/12/14	133
Nitrite as Nitrogen	< 45	mg/Kg	EPA-300.0 Rev. 2		05/12/14	133
Organic Nitrogen	6,140	mg/Kg	Lachat-10-107-06-2-K		06/06/14	102
PAN - Subsurface Application	12699	ppm	Calculation		06/09/14	127
PAN - Surface Application	9399	ppm	Calculation		06/09/14	127

Preparation Methods

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Anions IC Sample Preparation	1	Prep	SM-4110B-00		05/07/14	133
Metals ICP Sample Digestion	1	Prep	EPA-200.7 Rev. 4.4	PDC	05/21/14	
Total Metals Flame-AA Digestion	1	Prep	EPA-200.2		05/07/14	133

Environmental Analysis South, Inc

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

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

Report Number: 126061

Report of Analysis

Log Number: 1706917
Sample Description: Quarterly Sludge

Sample Date:
5/6/2014

Sample Received Date:
5/7/2014

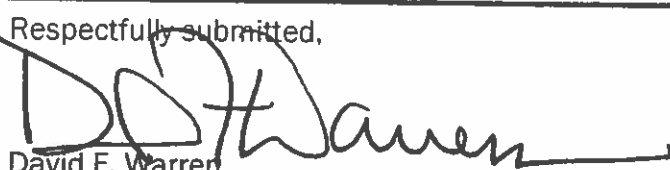
Solids

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Total Solids	4.42	% w/w	SM-2540 G-97		05/09/14	133

Total (Total Recoverable) Trace Metals

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Arsenic by ICP	< 3.0	mg/Kg	EPA-200.7 Rev. 4.4	PDC	05/21/14	
Cadmium	1.1	mg/Kg	SM-3111 B-99		05/08/14	133
Chromium	29.4	mg/Kg	SM-3111 B-99		05/08/14	133
Copper	450	mg/Kg	SM-3111 B-99		05/08/14	133
Lead by ICP	20	mg/Kg	EPA-200.7 Rev. 4.4	PDC	05/21/14	
Mercury by Cold-Vapor Technique	< 0.10	mg/Kg	SM-3112 B-99		05/29/14	133
Molybdenum by ICP	4.7	mg/Kg	EPA-200.7 Rev. 4.4	PDC	05/21/14	
Nickel	< 0.34	mg/Kg	SM-3111 B-99		05/08/14	133
Potassium	1670	mg/Kg	SM-3111 B-99		05/13/14	133
Selenium by ICP	< 2.0	mg/Kg	EPA-200.7 Rev. 4.4	PDC	05/21/14	
Zinc	982	mg/Kg	SM-3111 B-99		05/08/14	133

Respectfully submitted,


David F. Warren

Comments:

PDC

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

126061

CHAIN OF CUSTODY RECORD

Sampler's Signature:

1

Date: 5/6/14 Time: 2:00 ☐ See Table

Additional Comments:

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

[illegible]

FECAL COLIFORM IN SLUDGE

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

Log # 1706917

Date: 5/7/2014

Analyst: 102

Total Solid calculation

Sample	Sample Size	Tare Weight	Tare Wt. + Res.	Residue Wt.	Final Result
Replicate	(grams)	(grams)	(grams)	(grams)	(%w/w)
A	26.8436	2.1536	3.2265	1.0729	4.00
B	25.1828	1.8789	2.9668	1.0879	4.32
C	25.6729	1.8829	2.9899	1.1070	4.31
D	27.0795	1.8785	3.0620	1.1835	4.37
E	25.7984	1.8825	3.0166	1.1341	4.40
F	26.8596	1.8754	3.0558	1.1804	4.39
G	26.0772	1.8732	3.0228	1.1496	4.41
				Average Total Solid	4.31

Colony Counts

Date: 5/7/2014

Analyst: 102

Sample	Wt. Of Sample	Sample Size	Colony Count	Final Count
Replicate	(grams)	(mls - 0.1, 1.0, 10)	used	#/gram (dry)
A	0.4166	1	2	12,000
B	0.4228	1	4	21,900
C	0.4437	1	1	5,230
D	0.4470	1	<1	<5120
E	0.4273	1	3	16,000
F	0.4327	1	3	15,800
G	0.4007	1	2	11,300
Geometric Average				10,000

Approved by:



Environmental Analysis South, Inc.
Clarification Coagulant Sludges
Sludge Analysis

6/9/2014

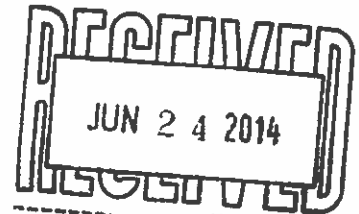
Submitted by: Alliance Lake Ozark					
Log Number: 1706917					
pH					
Coliform					
Parameter	Wet %	Wet ppm	Dry %	Dry ppm	lbs/dry Tons
Moisture			95.58		
Solids			4.42		
Volatile Solids					
Ash					
Nitrogen (TKN)	0.076%	757.588	1.714%	17140.000	34.280
Nitrate N	0.002%	20.818	0.047%	471.000	0.942
Nitrite N	0.000%	0.000	0.000%	ND	0.000
Ammonia N	0.049%	486.200	1.100%	11000.000	22.000
Organic N	0.027%	271.388	0.614%	6140.000	12.280
PAN Surface Application	0.042%	415.436	0.940%	9399.000	18.798
PAN Subsurface Application	0.056%	561.296	1.270%	12699.000	25.398
Potassium (as K)	0.007%	73.814	0.167%	1670.000	3.340
Phosphorus (as P)	0.108%	1082.900	2.450%	24500.000	49.000
Arsenic (as As)	ND	ND	ND	ND	ND
Cadmium (as Cd)	0.000%	0.049	0.000%	1.100	0.002
Chromium (as Cr)	0.000%	1.299	0.003%	29.400	0.059
Copper (as Cu)	0.002%	19.890	0.045%	450.000	0.900
Molybdenum (as Mo)	0.000%	0.208	0.000%	4.700	0.009
Nickel (as Ni)	0.000%	0.015	0.000%	0.340	0.001
Lead (as Pb)	0.000%	0.884	0.002%	20.000	0.040
Selenium (as Se)	ND	ND	ND	ND	ND
Zinc (as Zn)	0.004%	43.404	0.098%	982.000	1.964
Mercury (as Hg)	ND	ND	ND	ND	ND
code ND = none detected					
code NT = not tested					

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# 1709320
June 12, 2014 through June 14, 2014



AND MAILED TO MDNR 6/25/14

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)

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# 1709320

June 12, 2014 through June 14, 2014

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)	95%	90%
6.25% Effluent	100%	90%
12.5% Effluent	100%	90%
25% Effluent	100%	100%
50% Effluent	100%	100%
100% Effluent	100%	100%
Estimated 48 Hour LC ₅₀ Value	>100% Effluent	>100% Effluent
To Pass: 1. Effluent - LC ₅₀ 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 the Graphical Method

NOAEC = 100% using Steel's Many-One Rank Test

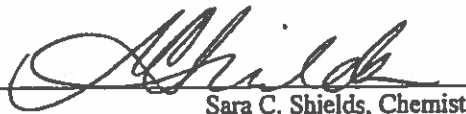
Ceriodaphnia dubia 48 hour WET results:

LC 50 > 100% by Trimmed Spearman-Kärber

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.

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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# 1709320

June 12, 2014 through June 14, 2014

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.

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# 1709320

June 12, 2014 through June 14, 2014

2.2. REFERENCE TOXICITY TEST:

Environmental Analysis South performs monthly reference toxicity tests. The most recent reference test was initiated on June 4, 2014 using KCL Lot #41713. Following are the results:

2.2.1. *P. promelas* - 48 hr. Acute Test – LC_{50} = 0.920 g/l 95%CI (0.669 g/l - 1.170 g/l)

EAS %CV = 13.6%

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} = 0.459 g/l 95%CI (0.336 g/l - 0.581g/l)

EAS %CV = 13.4%

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 Ozark Regional WWTP #1, Outfall 001, 24 hr composite
NPDES NUMBER: MO-0103241

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

DATE & TIME OF COLLECTION: 06/10/14 0900 hrs - 06/11/14 0900 hrs by Gary Hutchcraft

DATE & TIME OF SUBMISSION: 06/12/14 0945 hrs by UPS

Upstream: Bowling Hollow Creek
Collected: 06/11/14 0900 hrs by Gary Hutchcraft

INITIAL OBSERVATIONS	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	INT EFFL	INT UC	INT RC	Collected: 06/11/14 0900 hrs by Gary Hutchcraft					
LOG NUMBER / ID NUMBER														
PH - SU	06/12/14	1000 hrs	SCS	SB114 (8.8-9.2)	8.85	1709320	1709320A	RC4103						
TEMPERATURE °C RECEIVED	06/12/14	1000 hrs	SCS	EAS 106		6	8.04	7.84						
SPECIFIC CONDUCTANCE umhos	06/12/14	1000 hrs	SCS	ERA P218-506(286-330)	323	1382	297	292						
HARDNESS - ppm	06/12/14	1000 hrs	SCS	ERA P170-507(107-134)	120	380	180	80						
CHLORINE - ppm	06/12/14	1000 hrs	SCS	tap water	+	<0.04	<0.04	<0.04						
DISSOLVED OXYGEN - ppm	06/12/14	1000 hrs	SCS	cal@840		9.2	9.6	8.2						
TOTAL ALKALINITY - ppm	06/18/14	1300 hrs	SCS	ERA P218-506(50.2-60.7)	59.2	323	178	70.9						
INITIAL AMMONIA - ppm	06/17/14	1415 hrs	JPC	DMRQA33 (10.0-16.8)	15.8	<0.05	<0.05	<0.05						
TOTAL DISSOLVED SOLIDS -ppm														
0 HOUR OBSERVATIONS	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.5%	6.25%	X %AEC	
PH - SU	06/12/14	1045 hrs	SCS	SB114 (8.8-9.2)	8.85	8.13	7.78	7.95	7.85	7.73	7.71	7.72		
TEMPERATURE °C	06/12/14	1045 hrs	SCS	EAS 106		24.0	23.6	23.5	23.5	23.7	23.5	23.6		
SPECIFIC CONDUCTANCE umhos	06/12/14	1045 hrs	SCS	ERA P218-506(286-330)	323	280	391	1377	901	612	495	444		
DISSOLVED OXYGEN - ppm	06/12/14	1045 hrs	SCS	cal@840		8.6	8.2	9.2	9.0	8.6	8.5	8.6		

24 HOUR OBSERVATIONS - PP	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.5%	6.25%	X %AEC
PH - SU	06/13/14	1045 hrs	SCS	SB114 (8.8-9.2)	8.88	8.18	8.04	8.28	8.22	8.18	8.15	8.11	
TEMPERATURE °C	06/13/14	1045 hrs	SCS	EAS 106		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
SPECIFIC CONDUCTANCE umhos	06/13/14	1045 hrs	SCS	ERA P218-506(286-330)	320	270	392	1398	915	642	516	455	
DISSOLVED OXYGEN - ppm	06/13/14	1045 hrs	SCS	cal@840		8.4	7.8	7.8	7.8	7.9	7.8	7.8	
48 HOUR OBSERVATIONS - PP	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.5%	6.25%	X %AEC
PH - SU	06/14/14	1045 hrs	SCS	SB114 (8.8-9.2)	8.91	8.18	7.73	8.02	7.91	7.80	7.74	7.70	
TEMPERATURE °C	06/14/14	1045 hrs	SCS	EAS 106		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
SPECIFIC CONDUCTANCE umhos	06/14/14	1045 hrs	SCS	ERA P218-506(286-330)	321	300	413	1436	946	672	536	477	
DISSOLVED OXYGEN - ppm	06/14/14	1045 hrs	SCS	cal@840		7.8	7.6	7.6	7.6	7.5	7.4	7.4	
FINAL AMMONIA - ppm				DMRQA33 (10.0-16.8)									

24 HOUR OBSERVATIONS - CD	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.5%	6.25%	X %AEC
PH - SU	06/13/14	1045 hrs	SCS	SB114 (8.8-9.2)	8.88	8.19	8.12	8.15	8.09	8.10	8.06	8.08	
TEMPERATURE °C	06/13/14	1045 hrs	SCS	EAS 106		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
SPECIFIC CONDUCTANCE umhos	06/13/14	1045 hrs	SCS	ERA P218-506(286-330)	320	272	389	1384	902	634	510	450	
DISSOLVED OXYGEN - ppm	06/13/14	1045 hrs	SCS	cal@840		8.6	9.1	8.6	8.8	8.9	8.9	8.9	
48 HOUR OBSERVATIONS - CD	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC	100%	50%	25%	12.5%	6.25%	X %AEC
PH - SU	06/14/14	1045 hrs	SCS	SB114 (8.8-9.2)	8.91	8.13	7.94	8.04	7.94	7.90	7.87	7.87	
TEMPERATURE °C	06/14/14	1045 hrs	SCS	EAS 106		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
SPECIFIC CONDUCTANCE umhos	06/14/14	1045 hrs	SCS	ERA P218-506(286-330)	321	289	408	1420	933	664	534	474	
DISSOLVED OXYGEN - ppm	06/14/14	1045 hrs	SCS	cal@840		7.8	8.1	8.2	8.2	8.4	8.4	8.4	
FINAL AMMONIA - ppm				DMRQA33 (10.0-16.8)									

Approved by: 

Date: 6/19/14

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

Lake of the Ozark Regional WWTP #1, Outfall 001, 24 hr composite EAS LOG# 1709320

Date Test Began: June 12, 2014 Time Test Began: 1045 hrs Analyst 1: DFW
Date Test Finished: June 14, 2014 Time Test Finished: 1045 hrs Analyst 2: KJR
Analyst 3: SCS

P. promelas (PP) AGE: 4 days HATCH NUMBER: 9115 c-k

PERIOD	RC	UC	100%	50%	25%	12.5%	6.25%	X% AEC
0 HR-PP	10,10	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	10,9	10,10	10,10	10,10	10,10	10,10	

Ceriodaphnia dubia (CD) AGE: <24 hours HATCH NUMBER: 2874 c-k

PERIOD	RC	UC	100%	50%	25%	12.5%	6.25%	X% AEC
0 HR-CD	5,5,5,5	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: 6/19/14

Notes & Comments

[illegible]

Date: 6/19/14

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



12652

WHOLE EFFLUENT TOXICITY TESTING CHAIN OF CUSTODY

CLIENT: Alliance - Lake Ozark, Lake of the Ozarks Regional WWT

NPDES PERMIT NUMBER: MO-0103241

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

COLLECTION DATA: START DATE: 6/10/14 START TIME: 9:00

FINISH DATE: 6/11/14 FINISH TIME: 9:00

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

COLLECTION DATA: DATE: 6/11/14 TIME: 9:00

SAMPLER NAME: Sony Hutchcraft (PRINT NAME) CARRIER: UPS

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, 11, 14 ☐
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: Sony Hutchcraft DATE: 6/11/14 TIME: 10:00

LABORATORY USE ONLY

EFFLUENT LOG NUMBER: 17n9320
RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO SAMPLES ICED or DELIVERED SAME DAY AS TEST

UPSTREAM LOG NUMBER: 17n9320A

RECEIVED TEMPERATURE: 5 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO SAMPLES ICED or DELIVERED SAME DAY AS TEST

RECEIVED BY: [Signature] DATE: 6/12/14 TIME: 0945 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 Ozark Regional WWTP #1		DATE & TIME COLLECTED EFFLUENT 06/10/14 0900-06/11/14 0900 UPSTREAM 06/11/14 0900	
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 1709320 UPSTREAM 1709320A		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_1709320		TEST DURATION 48 hour	
DATE OF LAST REFERENCE TOXICANT TESTING June 4, 2014		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 06/12/14 0945 hrs by UPS		TEST START DATE AND TIME 06/12/14 1100 hrs	TEST END DATE AND TIME 06/14/14 1100 hrs
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT UPSTREAM		TEST ORGANISM #1 AND AGE Pimephales promelas 4 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 1709320A
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 5%	UPSTREAM ORGANISM #2 % MORTALITY 10%
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	06/12/14 1000 hrs
pH Standard Units	8.43	SM18 4500-H B	06/12/14 1000 hrs
Conductance µMohs	1382	SM18 2510B	06/12/14 1000 hrs
Dissolved Oxygen mg/L	9.2	03/12/14 0945 hrsSM18 4500-O G	06/12/14 1000 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-CI G	06/12/14 1000 hrs
Unionized Ammonia mg/L	<0.05x0.12<0.010	SM18 4500-NH3 F @ 25 degree C	06/17/14 1415 hrs
*Total Alkalinity mg/L	323	SM18 2320B	06/18/14 1300 hrs
*Total Hardness mg/L	380	SM18 2340 C	06/12/14 1000 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	5	SM18 2550B stored at 4 degree C until test setup	06/12/14 1000 hrs
pH Standard Units	8.04	SM18 4500-H B	06/12/14 1000 hrs
Conductance µMohs	297	SM18 2510B	06/12/14 1000 hrs
Dissolved Oxygen mg/L	9.6	SM18 4500-O G	06/12/14 1000 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	06/12/14 1000 hrs
Unionized Ammonia mg/L	<0.05x0.05<0.010	SM18 4500-NH3 F @ 25 degree C	06/17/14 1415 hrs
*Total Alkalinity mg/L	178	SM18 2320B	06/18/14 1300 hrs
*Total Hardness mg/L	180	SM18 2340 C	06/12/14 1000 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.



Bids for 12 X 20 Barn Style Storage Building w/ Loft

Bidder	Budgeted Amount	Total Bid	Storage Building Brand & Warranty
The Home Depot	\$4,500.00	\$7,345.56	Tuff Shed, Keystone series & 36" metal ramp, 5 year tuff shed warranty, unpainted
Lowe's	"	\$4,937.65	Barnyard Barns, Barn Item #330707 w/ 6ft ramp 2 year limited warranty, unpainted
Magic Dragon Motor Co.	"	\$4,445.00	Backyard Portable Buildings, Lofted Barn w/ 6ft ramp 5 year warranty on workmanship & lifetime warranty on exposed material, sprayed with stain & water sealer

All bids include delivery, set up and ankored down.

