

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JANUARY 20, 2015
4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, Penny Lyons
Mayor, Lake Ozark, Johnnie Franzekos
City Administrator, Osage Beach, Jeana Woods
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
Resident Member, Mr. Gary Hamner

3. MINUTES

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4. REPORTS

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Check Registers & Bank Statements	27-33
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December, 2014 Alliance Report of Operations	51-65

5. OLD BUSINESS

A. Magruder update

6. NEW BUSINESS

A. Discussion regarding Inspection Report from MO DNR	67-86
and proposed response thereto.	87-89
B. Old records – Order of Destruction	91

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE FEBRUARY 17, 2014, 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK - OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – November 18, 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: Penny Lyons, Mayor
Johnnie Franzeskos, Mayor
Dave Van Dee, City Administrator
Jeana Woods, City Administrator
Phyllis Marose, Alderman
Gerry Murawski, Alderman - absent
Matt Michalik, Public Works Director
Nick Edelman, Public Works Director
Gary Hamner, Resident Member

Absent: Gerry Murawski – Alderman

Others Present: Gary Johnson, Alliance Div. Manager
Gary Hutchcraft, Plant Manager
Karri Bell, Treasurer
Ed Rucker, City Attorney

Minutes of Past Meeting:

Mayor Lyons requested a motion to approve the October 21, 2014 meeting minutes. With no changes or corrections, Mayor Franzeskos motioned to approve the minutes; second by Alderman Marose. All voted in favor.

Public Comment: None at this time.

Bills List: Mayor Lyons requested a motion to approve the Bills List. Mayor Franzeskos motioned approval of payment of the bills. Second by Administrator Van Dee. All voted in favor.

Reports:

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

Alliance Report & Flow Charts:

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

Mr. Hutchcraft also advised that there were several boxes of old records (back to 1990) that are due to be destroyed. After discussion it was noted that this item should be placed on the January, 2015 agenda for further action and direction.

Mayor Lyons then requested a motion to approve the October 2014 Flow Charts. Resident Member Hamner motioned approval. Second by Director Michalik with unanimous approval.

Old Business:

Magruder update: Mayor Lyons advised that there was nothing new to report.

2015 Budget discussion. After review, a motion was made by Resident Member Hamner to approve the proposed 2015 budget as presented. His motion was seconded by Mayor Franzekos with unanimous approval

New Business:

Bid review; sludge truck paint project. Mr. Hutchcraft advised that two written bids had been received with regard to the sludge truck paint project (Bad Apple and Prater Body Works). Bad Apple was the low bid at the sum of \$7,000. The bid also included a written warranty. After discussion, a motion was made by Director Michalik to accept the Bad Apple bid. His motion was seconded by Mayor Franzekos and was then unanimously approved.

Resolutions affirming authorized signatures on all financial accounts. With the change in City Administrators at Osage Beach, a motion was made by Mayor Franzekos approving corporate resolutions updating all the financial accounts (four different banks) removing Ms. Viselli and adding Ms. Woods. His motion was seconded by Director Michalik and was unanimously approved.

Authorization to issue payments in December. With no meeting scheduled in December, a motion was made by Resident Member Hamner to authorize payment of the usual and regular bills. Anything requiring payment, other than the usual bills will need approval by both City Administrators. His motion was seconded by Alderman Marose and was then unanimously approved.

Other Discussion: None at this time.

Adjournment:

With nothing further to discuss, Mayor Lyons adjourned the meeting at 4:20 pm. The next scheduled meeting is Tuesday, January 20, 2014, 4:00 pm. at Lake Ozark City Hall.

Penny Lyons
Osage Beach Mayor

Kathy Vance
Temporary Lake Ozark Joint Sewer Clerk

JOINT SEWER BOARD
BILL LIST
January 20, 2014

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 84,873.46
OPERATING FUND BILLS TO BE PAID:	\$ 32,161.93
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 117,035.39

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4150	3415	Lake Sun Leader	Truck Repair Ad	\$ 87.75
4185	3416	Ameren Missouri	November 2014 Electric	\$ 3,864.34
4000	3417	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4170	3418	Alliance Water Resources, Inc.	Dec 2014 Management Fee	\$ 24,037.09
4220	3419	Zerger & Mauer	Magruder Lawsuit	\$ 2,354.46
4020	3420	Hogans	Sandblast/Repair Clarifier #1	\$ 43,858.00
4150	3421	Bad Apple	Repair/Repaint Sludge Truck	\$ 7,204.65
TOTAL				\$ 84,873.46

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4185	3422	Ameren Missouri	December 2014 Electric	\$ 4,008.67
4170	2423	Alliance Water Resources, Inc.	Jan 2015 Management Fee	\$ 24,686.09
4000	2424	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
				\$ 32,161.93

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:
				\$ -

22

III

14



GateHouse Media

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

NOV 19 2014

FROM: 11/06/2014 TO: 11/06/2014
VOL 135 NO 216 DAY OF NOVEMBER 06, 2014

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



Please Return This Portion With Your Payment.

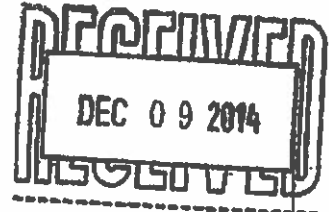
☐ Pure Power

\$277.77	Dec 19, 2014
\$281.94	55800-05920

Amount Enclosed \$

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



90633000 0055800059200 000000277770 000000277770

Keep This Portion For Your Records

55800-05920
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD
LAKE OZARK, MO 65049

Dec 9, 2014	
Dec 19, 2014	\$277.77
Jan 2, 2015	\$281.94

Payment Received on Nov 14, 2014

\$63.25

Total kWh	98041275	11/04-12/07	33	7147.0000	7531.0000	384.0000	10.0000	3840.0000A
Peak kW	98041275	11/04-12/07	33	0.0000	1.7390	1.7390	10.0000	17.3900A

Service To				SUMMARY				Service To	
Total kWh	12/07/2014	3840.0000		Winter Base kWh	12/07/2014	1860.0000		12/07/2014	1860.0000
Current Base kWh	12/07/2014	1860.0000		Seasonal kWh	12/07/2014	1980.0000			

METERED ELECTRIC SERVICE BILLING

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

Service From 11/04/2014 To 12/07/2014

Base Energy Charge	1,860.00 kWh	@ \$0.07710000	\$143.41
Seasonal Energy Charge	1,980.00 kWh	@ \$0.04450000	\$88.11
Customer Charge			\$15.54
Fuel Adjustment Charge	3,840.00 kWh	@ \$0.00470000	\$18.05
Energy Efficiency Pgm Charge	3,840.00 kWh	@ \$0.00030000	\$1.15
Energy Efficiency Invest Cbg	3,840.00 kWh	@ \$0.00195500	\$7.51
Total Service Amount			\$277.77

Current Amount Due	\$277.77
Prior Amount Due	\$0.00
Total Amount Due	\$277.77

The ActOnEnergy® BizSavers® program has CASH INCENTIVES available for your next energy efficiency project! Everything from lighting to controls to new construction. Visit ActOnEnergy.com/BizSavers to learn more.

Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1 cent per kilowatt hour charge will apply. You may cancel at any time.

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



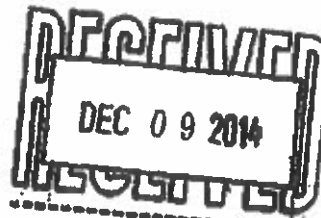
Please Return This Portion With Your Payment.

\$3,586.57	Dec 19, 2014
\$3,640.37	45800-05832

Amount Enclosed \$

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1088



40600000 0045800058302 000003586570 000003586570

Keep This Portion For Your Records

45800-05832
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD, -
LAKE OZARK, MO 65049

Dec 9, 2014
Dec 19, 2014
Jan 2, 2015

Payment Received on Nov 14, 2014 \$4,589.84

Total kWh	11673321 11/04-12/07 33	25738.0000	26129.0000	391.0000	160.0000	62560.0000
Peak kW	11673321 11/04-12/07 33	0.0000	0.6190	0.6190	160.0000	99.0400

Service To			SUMMARY		Service To	
Total kWh	12/07/2014	62560.0000	Peak kW	12/07/2014	99.0000	
Total Billing Demand	12/07/2014	100.0000	October Winter Base kW	12/07/2014	129.0000	
Winter Base Demand	12/07/2014	99.0000	Base kWh Ratio	12/07/2014	1.0000	
Base kWh (HWD)	12/07/2014	62560.0000	Seasonal kWh (HWD)	12/07/2014	0.0000	

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service		Service From 11/04/2014 To 12/07/2014	
Seasonal Energy Charge	0.00 kWh	@ \$0.03630000	\$0.00
Demand Charge	100.00 kW	@ \$1.71800000	\$171.80
Base Energy Chg / Hours Used	14,850.00 kWh	@ \$0.06230000	\$925.16
Base Energy Chg / Hours Used	19,800.00 kWh	@ \$0.04620000	\$914.76
Base Energy Chg / Hours Used	27,910.00 kWh	@ \$0.03630000	\$1,013.13
Customer Charge			\$88.82
Fuel Adjustment Charge	62,560.00 kWh	@ \$0.00470000	\$294.03
Energy Efficiency Pgm Charge	62,560.00 kWh	@ \$0.00050000	\$31.28
Energy Efficiency Invest Chg	62,560.00 kWh	@ \$0.00237200	\$148.39
Total Service Amount			\$2,586.57

Current Amount Due	\$3,586.57
Prior Amount Due	\$0.00
Total Amount Due	\$3,586.57

The ActOnEnergy® BizSavers® program has CASH INCENTIVES available for your next energy efficiency project! Everything from lighting to controls to new construction. Visit ActOnEnergy.com/BizSavers to learn more.

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

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

SOLD TO

Lake Ozark/Osage Beach Joint Utility Board**c/o Karri Bell****City of Osage Beach****1000 City Parkway****Osage Beach, MO 65065****INVOICE****Invoice No: 6283****1-Dec-14****Customer No: 20220****Terms: 30 days**

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

ZERGER & MAUER LLP

1001 Main Street

Suite 2100

Kansas City, MO 64105 816/759-3344 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: 11/25/2014
 Statement No. 13505
 Page No. 1

Fees

		Rate	Hours	
10/01/2014				
SEM	Prepare for hearing; revise outline for argument; create new exhibits for argument.	280.00	1.50	420.00
10/02/2014				
JB	Discuss hearing with S. E. Mauer. NO CHARGE	175.00		
SEM	Attend hearing with Judge Conley; present arguments for same; prepare notes regarding same.	280.00	6.00	1,680.00
	For Current Services Rendered		7.50	2,100.00

Expenses

10/08/2014	Mileage to/from Osage Beach for hearing on 10/2/14	195.49
10/08/2014	Travel expense - S.E. Mauer gasoline and food - Travel to Osage Beach for hearing on 10/2/14	57.99
10/10/2014	Postage	0.98
	Total Expenses	254.46
	Total Current Work	2,354.46
	Previous Balance	\$10,155.60

Payments

10/24/2014	Payment	-4,208.78
11/24/2014	Payment	-5,946.82
	Total Payments	-10,155.60
	Balance Due	<u>\$2,354.46</u>

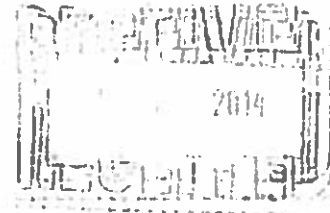
To ensure proper credit, please include account number and statement date on remittance checks. Thank you.

Bill: 1004 12/14
 Bill Date: 12/14/14

From: 1004 12/14/14
 To: 1004 12/14/14

12/12/2014 2000

Joint Sewer Board
 P O Box 1935
 Lake Ozark MO 65409



		Net 30 or 15% appl	ww Treatment Plant
1	Sandblasting & Painting - as agreement	31,108.00	31,108.00
1	Additional cost for complete removal of coating, by Sandblasting & Painting structural surfaces	12,750.00	12,750.00
Total			\$43,858.00

Bad Apple Enterprises, LLC

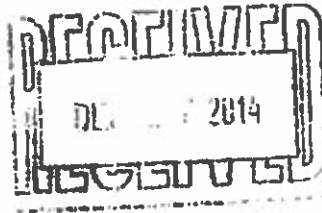
22 ALLEN RD.
ELDON MO 65026

Invoice

Due Date	Date	Invoice #
12/12/2014	12/12/2014	1555

Bill To

GH2262
Joint Sewer Board
PO BOX 1985
LAKE OZARK MO 65049



Balance Due>> \$7,204 65

Please check box if address is incorrect or has changed, and indicate change(s) on reverse side

Have I Mail? Please write it here _____

Bad Apple Enterprises, LLC

22 ALLEN RD
ELDON MO 65026

PLEASE DETACH AND RETURN TOP PORTION WITH YOUR PAYMENT.

P.O. No.	Terms	Due Date	Project
		12/12/2014	

Description	Qty	Rate	Amount
Sandblast Tank & Exposed Metal		695 00	695 00
Disassemble Truck & Prep For Paint	18	50 00	900 00
Repair Damaged Fiberglass	14 5	50 00	725 00
Weld Various Cracked Welds	8	50 00	400 00
Respray Tank	10	50 00	500 00
Respray Cab	8	50 00	400 00
Respray Frame, Fuel Tanks, Battery Box, Pump and Wheels	8 75	50 00	437 50
Reassemble Truck	22 75	50 00	1,137 50
Paint Materials		1,750 00	1,750 00
New High Pressure Line / Mirror for Door / Various Nuts & Bolts		259 65	259 65
Sales Tax		5 225%	0 00

On the Road to Business Success!

Total	\$7,204 65
Payments/Credits	\$0 00
Balance Due	\$7,204 65



Please Return This Portion With Your Payment.

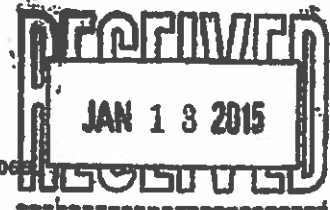
☐ Pure Power

\$242.78	Jan 26, 2015
\$246.42	55800-05920

Amount Enclosed \$

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65049

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



10633000 0055800059200 000000242780 000000242780

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55800-05920
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD
LAKE OZARK, MO 65049

Jan 13, 2015	
Jan 26, 2015	\$242.78
Feb 4, 2015	\$246.42

Payment Received on Dec 29, 2014

\$277.77

Total kWh	98041275	12/07-01/08	32	7531.0000	7847.0000	116.0000	10.0000	3160.0000A
Peak kW	98041275	12/07-01/08	32	0.0000	5.3560	5.3560	10.0000	53.5600A

Service To				SUMMARY				Service To	
Total kWh	01/08/2015	3160.0000		Winter Base kWh	01/08/2015	1860.0000		01/08/2015	1860.0000
Current Base kWh	01/08/2015	1860.0000		Seasonal kWh	01/08/2015	1300.0000		01/08/2015	1300.0000

METERED ELECTRIC SERVICE BILLING

Rate 2M 5m Gen Svc - 3 Ph w/Dmd
Threshold - Peak Demand

Service From 12/07/2014 To 01/08/2015

Base Energy Charge	1,860.00 kWh	@ \$0.07710000	\$143.41
Seasonal Energy Charge	1,300.00 kWh	@ \$0.04450000	\$57.85
Customer Charge			\$19.84
Fuel Adjustment Charge	3,160.00 kWh	@ \$0.00470000	\$14.85
Energy Efficiency Pgm Charge	3,160.00 kWh	@ \$0.00030000	\$0.95
Energy Efficiency Invest Chg	3,160.00 kWh	@ \$0.00195500	\$6.18
Total Service Amount			\$242.78

Current Amount Due	\$242.78
Prior Amount Due	\$0.00
Total Amount Due	\$242.78

The ActOnEnergy® BizSavers® program has CASH INCENTIVES available for your next energy efficiency project! Everything from lighting to controls to new construction. Visit ActOnEnergy.com/BizSavers to learn more.

Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1 cent per kilowatt hour charge will apply. You may cancel at any time.

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



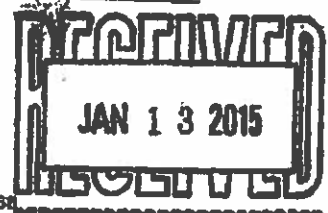
Please Return This Portion With Your Payment.

\$3,765.89	Jan 23, 2015
\$3,822.38	45800-05832

Amount
Enclosed \$

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



40600000 0045800058302 000003765890 000003765890

Keep This Portion For Your Records

45800-05832
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD, - LAKE OZARK, MO 65049

	Jan 12, 2015
Jan 23, 2015	\$3,765.89
Feb 3, 2015	\$3,822.38

Payment Received on Dec 29, 2014

\$3,586.57

Total kWh	11673321	12/07-01/08	32	26129.0000	26522.0000	393.0000	160.0000	62880.0000A
Peak kW	11673321	12/07-01/08	32	0.0000	0.7560	0.7560	160.0000	120.9600A
SUMMARY								
Total kWh	Service To			01/08/2015	62880.0000	Peak kW	Service To	
Total Billing Demand	01/08/2015			121.0000	October Winter Base kW	01/08/2015		121.0000
Winter Base Demand	01/08/2015			121.0000	Base kWh Ratio	01/08/2015		129.0000
Base kWh (HUD)	01/08/2015			62880.0000	Seasonal kWh (HUD)	01/08/2015		1.0000
								0.0000

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service		Service From 12/07/2014		To 01/08/2015
Seasonal Energy Charge	0.00 kWh	@	\$0.03530000	\$0.00
Demand Charge	121.00 kW	@	\$1.71000000	\$206.91
Base Energy Chg / Hours Used	18,150.00 kWh	@	\$0.06230000	\$1,130.75
Base Energy Chg / Hours Used	24,200.00 kWh	@	\$0.04620000	\$1,118.04
Customer Charge	20,530.00 kWh	@	\$0.03530000	\$745.24
Fuel Adjustment Charge	62,880.00 kWh	@	\$0.00470000	\$295.54
Energy Efficiency Pgm Charge	62,880.00 kWh	@	\$0.00050000	\$31.44
Energy Efficiency Invest Chg	62,880.00 kWh	@	\$0.00237200	\$149.15
Total Service Amount				\$3,765.89

Current Amount Due	\$3,765.89
Prior Amount Due	\$0.00
Total Amount Due	\$3,765.89

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

SC: D 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: 6298

1-Jan-15

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Jan-15	
	Base Fee	\$24,686.09
TOTAL DUE		\$24,686.09



November 18, 2014

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

Board of Directors:

As per the terms and conditions of the Alliance O&M Agreement, the base fee is adjusted on January 1st each year to reflect the change in the Consumer Price Index and the other terms of the agreement.

The Agreement specifies the use of the Department of Labor's CPI- All Urban Consumers Midwest – Size Class D, not seasonally adjusted (Series ID: CUURD200SA0). The most recent CPI data used to calculate the 2015 base contract fee was September 2014. Accordingly, the 2015 base contract fee will use the 12 month period from October 2013 through September 2014.

The appropriate indices and resulting contract adjustment is calculated as follows:

CPI	September 2014	224.125
CPI	October 2013	219.220

$$\begin{aligned}\text{CPI Increase} &= (224.125 - 219.220) / 219.220 \\ &= + 2.2\%\end{aligned}$$

Per contract, the base fee is adjusted annually at the CPI percentage increase/decrease plus 0.5% but not less than 2.5% annually nor more than 6.5% annually. The CPI adjustment plus the 0.5% is 2.7%, therefore the base rate is adjusted at + 2.7% beginning January 2015.

Adjusted O&M Fee:

Previous Monthly Fee	=	\$24,037.09 x 1.027
New Monthly Fee	=	\$24,686.09

The invoice for January 2015 will reflect the new base fee of \$24,686.09 per month.

On behalf of Gary Hutchcraft, and our entire staff at Alliance Water Resources, thank you for letting us be of service to your communities.

Sincerely,
Alliance Water Resources

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

Gary Johnson
Divisional Manager

cc: Board of Directors
Tim Geraghty
Gary Hutchcraft
Ann Perkins

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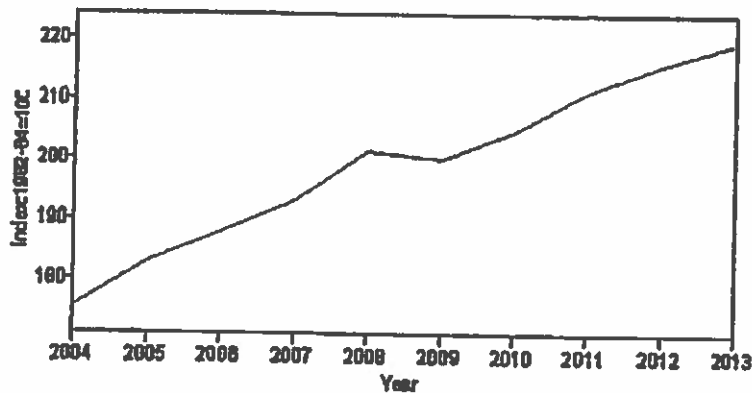
From: To:
☒ Include graphs ☒ Include annual averages

[More Formatting Options](#)

Data extracted on: November 18, 2014 (9:04:51 AM)

Consumer Price Index - All Urban Consumers

Series Id: CUURD200SA0
 Not Seasonally Adjusted
 Area: Midwest - Size Class D
 Item: All Items
 Base Period: 1982-84=100

Download: [CSV](#)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	HALF1	HALF2
2004	171.8	173.0	174.1	173.9	176.0	176.9	177.1	176.3	176.4	177.1	177.7	177.2	175.6	174.3	177.0
2005	178.2	179.2	179.9	181.7	181.6	182.3	182.9	184.6	187.2	186.8	185.0	184.4	182.8	180.5	185.2
2006	185.3	185.2	186.7	187.8	188.1	189.3	190.1	190.9	189.1	187.1	187.0	187.1	187.8	187.1	188.6
2007	187.587	188.122	190.365	191.685	193.467	194.442	194.815	194.716	195.483	195.054	196.569	195.819	193.177	190.945	195.409
2008	196.708	197.596	199.472	200.841	202.720	205.122	206.435	206.251	205.522	202.086	197.883	195.383	201.335	200.410	202.260
2009	195.843	196.421	197.267	197.644	198.911	201.157	200.908	201.823	201.918	202.499	203.047	202.738	200.015	197.874	202.156
2010	203.490	203.274	204.204	204.326	204.026	203.749	203.992	204.985	205.100	205.565	206.014	206.136	204.572	203.845	205.299
2011	207.551	208.156	209.713	211.314	212.210	211.717	212.261	213.009	213.606	212.476	212.907	212.505	211.452	210.110	212.794
2012	213.649	214.524	215.784	216.658	215.254	215.625	216.045	217.300	217.986	217.467	216.253	215.962	216.042	215.249	216.836
2013	217.217	219.311	219.603	218.915	220.614	220.610	220.713	220.769	220.439	219.220	219.582	219.291	219.690	219.378	220.002
2014	220.129	221.297	222.821	223.141	223.215	223.766	223.621	223.432	224.129					222.395	

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

Account Number	Account Name	12/31/2014				Percent YTD
		2012 Actual	2013 Actual	2014 Budget	2014 Actual as of 12/31/2014	2014 December Revenue
3020	Osage Beach	403,305.55	452,145.77	456,500.00	464,343.06	39,472.40
3010	Lake Ozark	86,694.44	92,854.22	93,500.00	85,716.93	6,360.94
3100	Interest	537.49	34.50	35.00	31.18	3.98
3060	Waste Haulers' Fee	40,820.00	41,460.00	41,000.00	34,340.00	1,480.00
Total Operating Fund		531,357.48	586,494.49	591,035.00	584,431.17	47,317.32
E/R Fund Income		1,374.82	1,320.11	1,350.00	1,025.06	20.64
TOTAL INCOME		532,732.30	587,814.60	592,385.00	585,456.23	47,337.96
						99%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
12/31/2014**

Account Number	Account Name	2012 Actual	2013 Actual	2014 Budget	2014 Actual as of 12/31/2014	2014 December Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	41,606.04	3,467.17	100%
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	58,873.44	43,858.00	54%
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	9,186.16	7,292.40	71%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	0.00	100%
4170	Contract Management	272,948.40	281,409.84	288,500.00	288,445.08	24,037.09	100%
4185	Electric	60,862.46	71,923.84	75,000.00	70,366.40	3,864.34	94%
4200	Audit	1,700.00	1,750.00	1,800.00	1,900.00	0.00	106%
4220	Professional Service	168,904.97	119,683.73	30,000.00	43,038.41	2,354.46	143%
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	537,917.53	84,873.46	88%
	**E/R Expenses	5,368.50	4,260.00	28,000.00	9,429.93	0.00	34%
	TOTAL EXPENSES	702,363.88	598,457.37	642,406.04	547,347.46	84,873.46	85%
	<u>Professional Services</u>						
	Normal/Magruder Lawsuit	30,000.00					5,000.00
							500.00
	<u>Capital Purchases</u>						2,000.00
	Generator (Saving for Future Purchase)	30,000.00					6,000.00
							50,000.00
	<u>**Equipment & Replacement</u>						45,000.00
	Normal E/R	10,000.00					108,500.00
	Replace doors PD \$2,228.18	2,000.00					3,000.00
	Rebuild Ducking Skimmer Clarifier #2	3,500.00					10,000.00
	Rebuild Arm Support Clarifier #1 & 2	5,000.00					13,000.00
	Storage Building PD \$4445.00	4,500.00					
	Metal Roof on Blower Building \$2756.75	3,000.00					
		28,000.00					
	<u>*Maintenance & Repair</u>						
	UV Spare Parts PD \$4,783.30						5,000.00
	Auto Dialer Yrly Software Fee \$407.40						500.00
	Rock for Road						2,000.00
	Normal Maintenance						6,000.00
	#1 Aeration Basin grit removal						50,000.00
	Sandblast/Repair Clarifier #1 \$43858.00						45,000.00
							108,500.00
	<u>***Vehicle Repair/Maint</u>						
	Vehicle Maintenance						3,000.00
	Repair/Repaint Sludge Truck \$8246.36						10,000.00
							13,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
12/31/2014

Beginning Balance	112,956.60
Income - Osage Beach	39,472.40
Income - Lake Ozark	6,360.94
Income - Other	0.00
Income - Waste Haulers' Fees	1,480.00
Interest - Checking	3.98
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-3,467.17
Expenses	-81,406.29
Ending Fund Balance	75,400.46
NOW Account - Central Bank	75,400.46
Outstanding Checks:	0.00
Deposit in Transit:	0.00
	75,400.46

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
12/31/2014

Beginning Balance	405,371.27
Interest - Checking	20.64
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	408,859.08
NOW Account - First Bank	116,977.98
CD First National Bank, 01/15 #000048178	113,593.69
CD Providence Bank, 07/15 #1268880	76,704.18
CD First National Bank, 01/15 #000049153	101,583.23
Deposit in Transit	0.00
Outstanding Checks:	0.00
	408,859.08

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

				82,924.04
	reconciled balance 8/31/14			
3395	Zerger & Mauer	X	575.48	82,348.56
3397	Ameren UE	X	9,482.66	72,865.90
3398	ER Fund Transfer	X	3,467.17	69,398.73
3399	Alliance Water Resources, Inc.	X	24,037.09	45,361.64
3400	Alliance Water Resources, Inc.	X	312.92	45,048.72
3401	Purcell Tire	X	1,041.71	44,007.01
	Deposit	X		39,740.65
	Deposit	X		6,092.68
	Deposit	X		3,740.00
	Interest	X		3.43
	reconciled balance 9/30/14			93,583.77
3402	Zerger & Mauer	X	717.48	92,866.29
3403	Mission Communication	X	407.40	92,458.89
3404	Ameren UE	X	4,953.33	87,505.56
3405	ER Fund Transfer	X	3,467.17	84,038.39
3406	Alliance Water Resources, Inc.	X	24,037.09	60,001.30
3407	Alliance Water Resources, Inc.	X	523.17	59,478.13
3409	Merchant Construction	X	2,756.75	56,721.38
	Deposit	X		39,833.26
	Deposit	X		6,000.07
	Deposit	X		3,140.00
	Interest	X		3.62
	reconciled balance 10/31/14			105,698.33
3408	Zerger & Mauer	X	4,208.78	101,489.55
3410	Ameren UE	X	4,663.09	96,826.46
3411	ER Fund Transfer	X	3,467.17	93,359.29
3412	Alliance Water Resources, Inc.	X	24,037.09	69,322.20
3413	Alliance Water Resources, Inc.	X	1,132.51	68,189.69
	Deposit	X		39,272.63
	Deposit	X		6,560.70
	Deposit	X		2,120.00
	Deposit	X		2,756.75
	Interest	X		3.65
	reconciled balance 11/30/14			118,903.42
3414	Zerger & Mauer	X	5,946.82	112,956.60
3415	Lake Sun Leader	X	87.75	112,868.85
3416	Ameren UE	X	3,864.34	109,004.51
3417	ER Fund Transfer	X	3,467.17	105,537.34
3418	Alliance Water Resources, Inc.	X	24,037.09	81,500.25
3419	Zerger & Mauer	X	2,354.46	79,145.79
3420	Hogans	X	43,858.00	35,287.79
3421	Bad Apple	X	7,204.65	28,083.14
	Deposit	X		39,472.40
	Deposit	X		6,360.94
	Deposit	X		1,480.00
	Interest	X		3.98
	reconciled balance 12/31/14			75,400.46



Central Bank of Lake of the Ozarks

MEMBER FDIC

P.O. Box 1500, Jefferson City, MO 65102
(573) 348-2761

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Return Service Requested



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

Period 12/01/2014-12/31/2014 Page 1 of 2

Web Address
www.cbolobank.com

Your Financial Summary on December 31, 2014

Assets

\$ 75,400.46
\$ 75,400.46

Explanation of Account Balances and Other Assets

ing

Beginning Balance November 28, 2014 \$ 118,903.42

Deposits

Dec. 12 Deposit 1,480.00
Dec. 12 Deposit 8,360.94
Dec. 12 Deposit 39,472.40
Dec. 31 Interest Earned 3.98

Total +\$ 47,317.32

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3414	Dec. 09	5,946.82	3418	Dec. 19	24,037.09
3415	Dec. 24	87.75	3419	Dec. 23	2,354.46
3416	Dec. 30	3,864.34	3420	Dec. 23	43,858.00
3417	Dec. 24	3,467.17	3421	Dec. 19	7,204.65

Total -\$ 80,820.28

Ending Balance December 31, 2014 \$ 75,400.46

Number of days since last statement/interest cycle 31
Beginning and ending dates for calculation of statement/interest cycle are 12/01/2014 through 12/31/2014
Average collected balance 117,188.00
Interest rate 0.04%
Annual percentage yield earned 0.04%
Interest earned year to date 31.18

JSB - CHECK REGISTERS 2013

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND				
	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
	Interest	X	17.81	103,284.70
	Deposit	X	3,467.17	106,751.87
	reconciled balance 7/31/14			106,751.87
	Interest	X	16.70	106,768.57
1007	Check	X	4,445.00	102,323.57
	Deposit	X	3,467.17	105,790.74
	reconciled balance 8/31/14			105,790.74
	Interest	X	18.64	105,809.38
	Deposit	X	3,467.17	109,276.55
	reconciled balance 9/30/14			109,276.55
	Interest	X	18.71	109,295.26
	Deposit	X	3,467.17	112,762.43
	reconciled balance 10/31/14			112,762.43
	Interest	X	17.32	112,779.75
1008	Check	X	2,756.75	110,023.00
	Deposit	X	3,467.17	113,490.17
	reconciled balance 11/30/14			113,490.17
	Interest	X	20.64	113,510.81
	Deposit	X	3,467.17	116,977.98
	reconciled balance 12/31/14			116,977.98



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

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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 a limit of \$250,000 per depositor, per
amount (\$250,000), for each depository institution and category of
For more information about FDIC insurance coverage of noninterest-bearing
transaction accounts, visit <http://www.fdic.gov/deposit/expiration.html>

BUSINESS MONTH

LAST STATEMENT 10/31/14	112,762.43
2 CREDITS	3,484.49
1 DEBITS	2,756.75
THIS STATEMENT 11/28/14	113,490.17

DEPOSITS		
REF #	DATE	AMOUNT
11/19		3,467.17

OTHER CREDITS		
DESCRIPTION	DATE	AMOUNT
INTEREST	11/28	17.32

CHECKS		
CHECK #	DATE	AMOUNT
1008	11/20	2,756.75

*** CONTINUED ***



701, 11/15/10

NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION





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

536 01
ACCOUNT
DOCUMENT

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

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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 non transaction accounts, will
be insured by the FDIC up to t deposit insurance
amount (\$250,000), for each de ship category.
For more information about FDI of noninterest-bearing
transaction accounts, d/expiration.html
visit <http://www.fdic.gov/depc>

BUSINESS MONTH

LAST STATEMENT 11/28/14 113,490.17
2 CREDITS 3,487.81
DEBITS .00
THIS STATEMENT 12/31/14 116,977.98

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
12/23 3,467.17

DESCRIPTION OTHER CREDITS DATE AMOUNT
INTEREST 12/31 20.64

AVERAGE LEDGER BALANCE: 114,435.76 INTEREST EARNED: 20.64
AVERAGE AVAILABLE BALANCE: 114,120.56 DAYS IN PERIOD: 33
INTEREST PAID THIS PERIOD: 20.64 ANNUAL PERCENTAGE YIELD EARNED: .20%

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION





**OPERATING
DIVISIONS**

MISSOURI

Atchison County

Bonne Terre

Boonville

Bowling Green

Buchanan County #1

Cameron

Cape Girardeau

Craig

**East Central Missouri
Water & Sewer
Authority**

Elberry

Fayette

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

Piatte 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 November 2014

Submitted by Alliance Water Resources, Inc. for the

January 2015

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	1.1	1.5	NA	0		.19	<5.0	NA
Peak Day	1.8	1.8	8.0	0		.40	<5.0	NA
Percent Removal	99.5	99.3	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 1.127 MGD or 38% 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 57189 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

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

506,812 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 256,250 gallons with a level of 4.0 feet in Tank 1 and 1.0 feet in Tank 2.

WASTEHAULERS

The plant received 20 loads of septage during the month totaling 50,000 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)
- Hogan's Inc. has been on the job sandblasting and painting on Clarifier #1 since the 16th of October and are doing a good job. With the cooler damp nights it is taking the paint a little longer to cure out between coats and they again have had rain and ice days that have slowed progress down, but they said they should be completely done sometime during the 2nd week of December.

SAFETY

- We conducted our monthly routine Safety Meeting on Chlorine Safety on the 12th of November.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR website on the 4th of December.

MISCELLANEOUS AND RECOMMENDATIONS

- We would like to Thank Matt and the City of Lake Ozark for sending their crew with the boom truck out to assist in removing the sandblast material out of Clarifier #1 on the 21st of November. Many Thanks!

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 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-Nov		0.151	0.863	1.014	14.9	85.1						
2-Nov		0.165	0.896	1.061	15.6	84.4						
3-Nov		0.170	0.981	1.151	14.8	85.2						
4-Nov	0.4	0.172	1.070	1.242	13.8	86.2						
5-Nov		0.166	1.016	1.182	14.0	86.0						
6-Nov		0.140	0.969	1.109	12.6	87.4						
7-Nov		0.146	0.917	1.063	13.7	86.3	160	148	203	156	166	220
8-Nov		0.168	1.053	1.221	13.8	86.2						
9-Nov		0.185	1.149	1.334	13.9	86.1						
10-Nov		0.168	1.013	1.181	14.2	85.8						
11-Nov		0.149	0.962	1.111	13.4	86.6						
12-Nov		0.130	0.811	0.941	13.8	86.2						
13-Nov		0.154	0.822	0.976	15.8	84.2						
14-Nov		0.141	0.811	0.952	14.8	85.2	218	240	205	202	202	202
15-Nov		0.137	0.886	1.023	13.4	86.6						
16-Nov		0.143	0.898	1.041	13.7	86.3						
17-Nov		0.133	0.808	0.941	14.1	85.9						
18-Nov		0.128	0.782	0.910	14.1	85.9						
19-Nov		0.135	0.772	0.907	14.9	85.1						
20-Nov		0.141	0.855	0.996	14.2	85.8						
21-Nov		0.135	0.840	0.975	13.8	86.2	178	215	210	176	194	220
22-Nov		0.145	0.874	1.019	14.2	85.8						
23-Nov	0.25	0.158	1.511	1.669	9.5	90.5						
24-Nov	0.8	0.190	1.943	2.133	8.9	91.1						
25-Nov		0.150	1.016	1.166	12.9	87.1						
26-Nov	0.1	0.119	0.850	0.969	12.3	87.7	108	165	193	74	200	230
27-Nov		0.134	0.920	1.054	12.7	87.3						
28-Nov		0.116	0.810	0.926	12.5	87.5						
29-Nov		0.167	1.098	1.265	13.2	86.8						
30-Nov		0.170	1.119	1.289	13.2	86.8						
SUM	1.6	4.506	29.315	33.821								
AVG		0.150	0.977	1.127	13	87	166	192	203	152	191	218
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

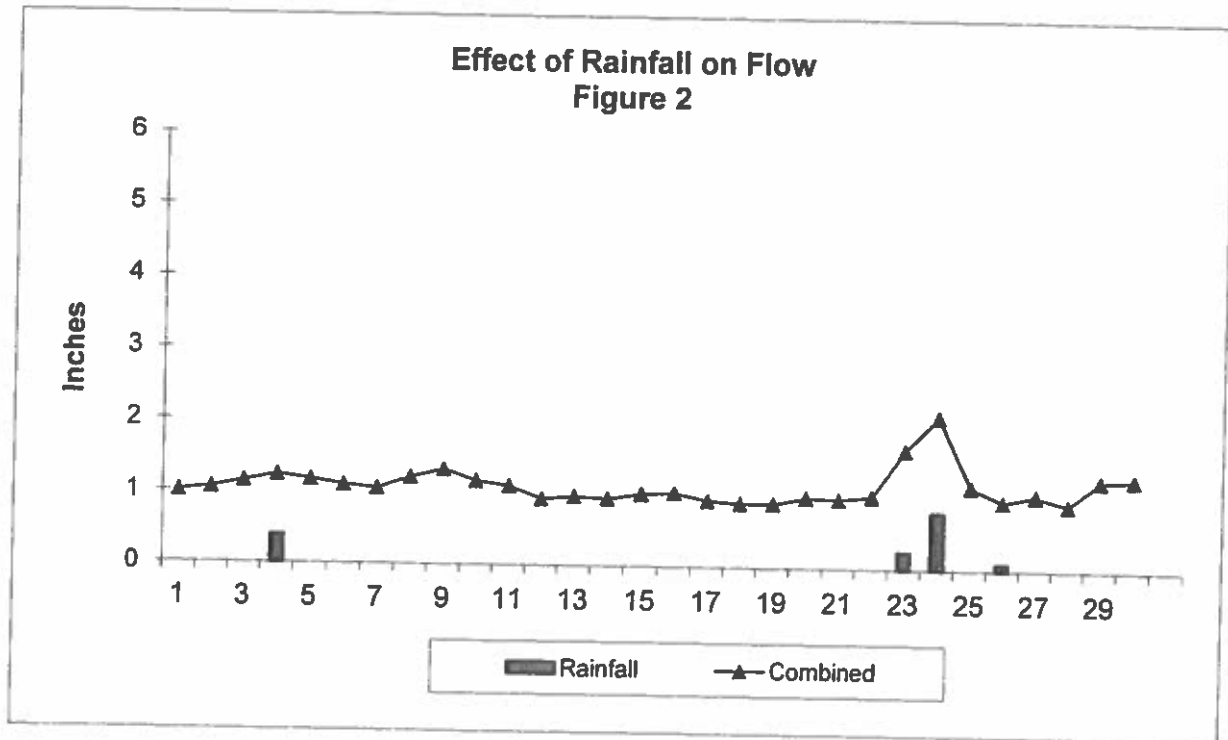
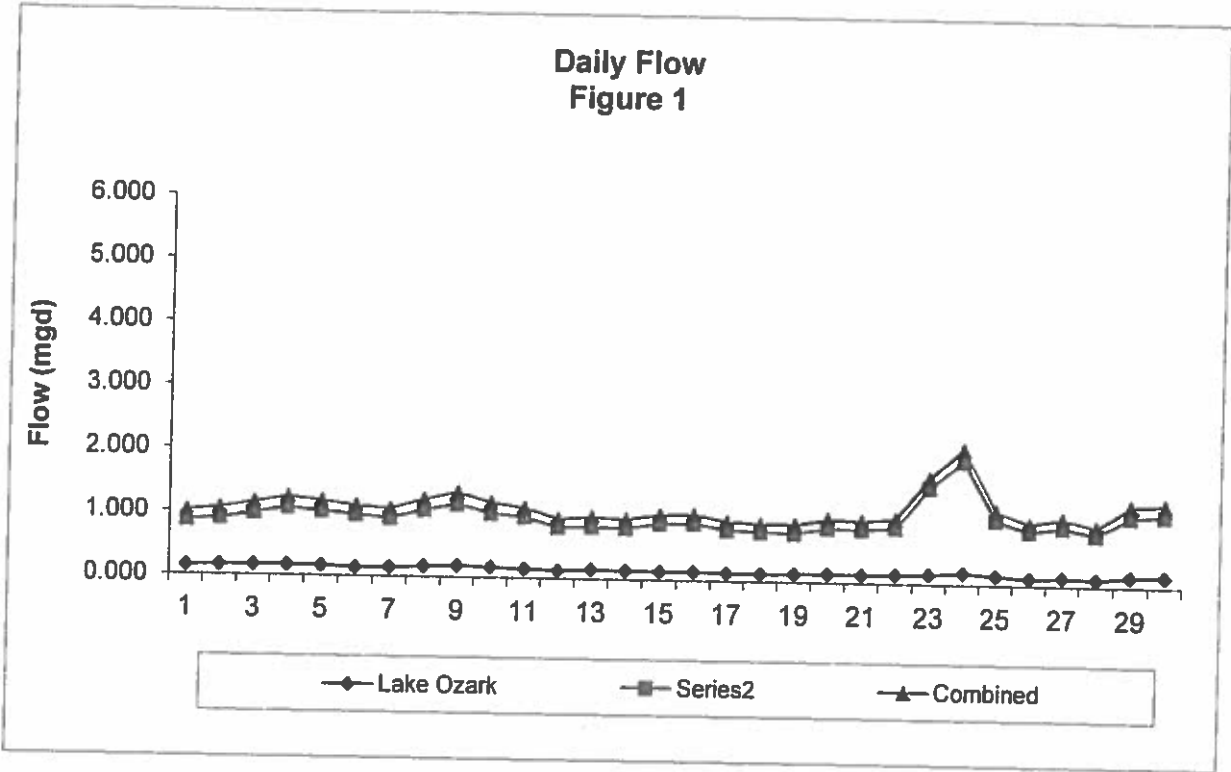


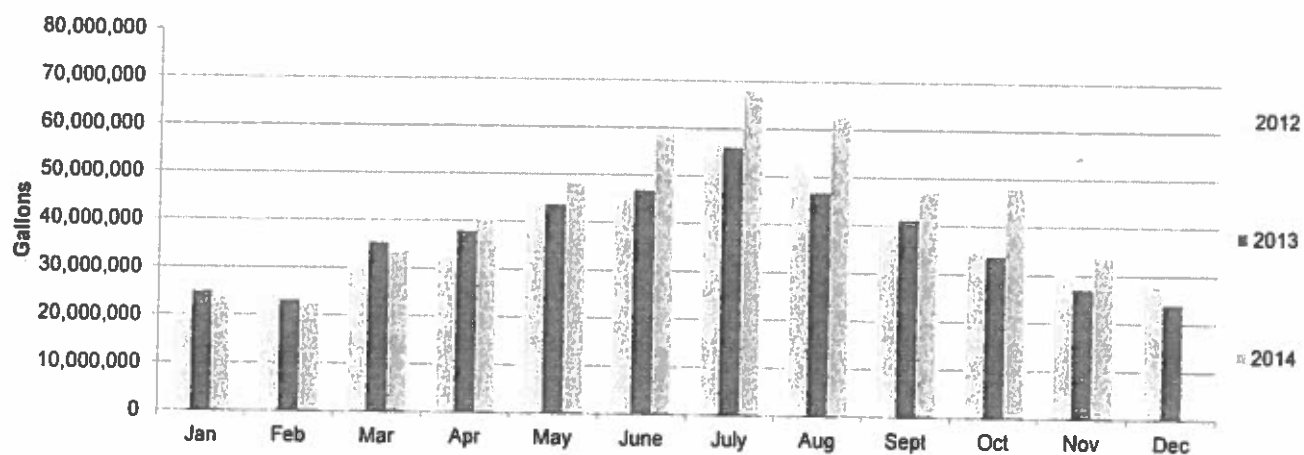
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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%

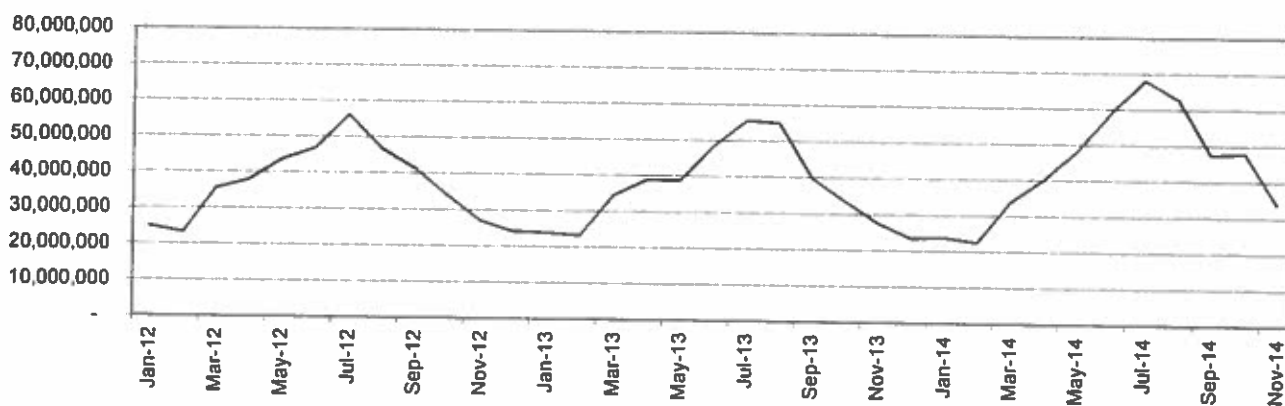
<u>2013</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	19,923,000	83%	4,104,000	17%	24,027,000	100%
February	4.2	19,290,000	83%	3,979,000	17%	23,269,000	100%
March	5.3	28,232,000	82%	6,308,000	18%	34,540,000	100%
April	8.7	31,410,000	81%	7,507,000	19%	38,917,000	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%

<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	3.1	59,089,000	87%	9,059,000	13%	68,148,000	100%
August	2.9	54,624,000	87%	8,228,000	13%	62,852,000	100%
September	3.4	40,316,000	86%	6,735,000	14%	47,051,000	100%
October	7.9	41,322,000	86%	6,659,000	14%	47,981,000	100%
November	1.6	29,315,000	87%	4,506,000	13%	33,821,000	100%
December							
	39.1	416,019,000	85%	70,982,000	15%	487,001,000	100%

Monthly Influent Flow
Figure 3A

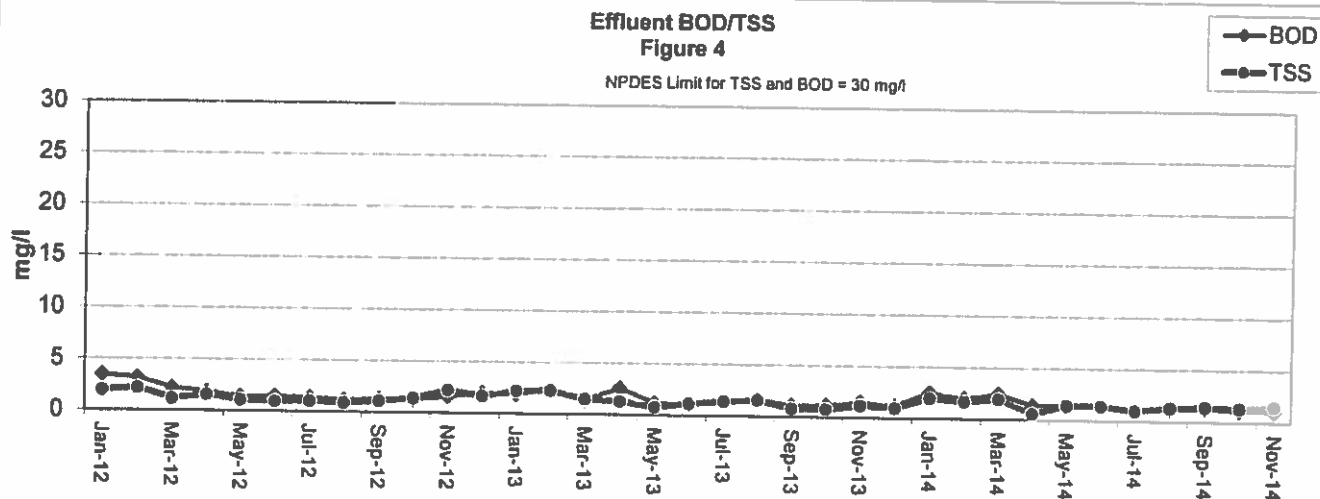


Monthly Influent Flow
Figure 3B

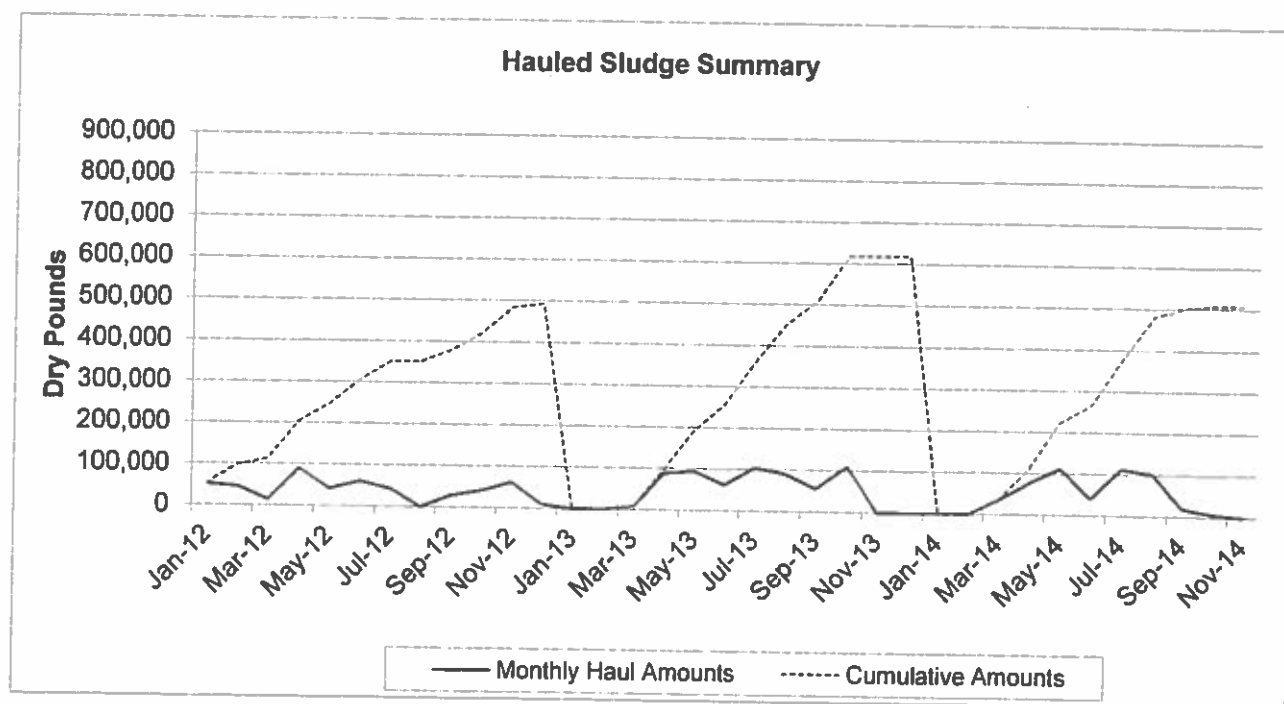
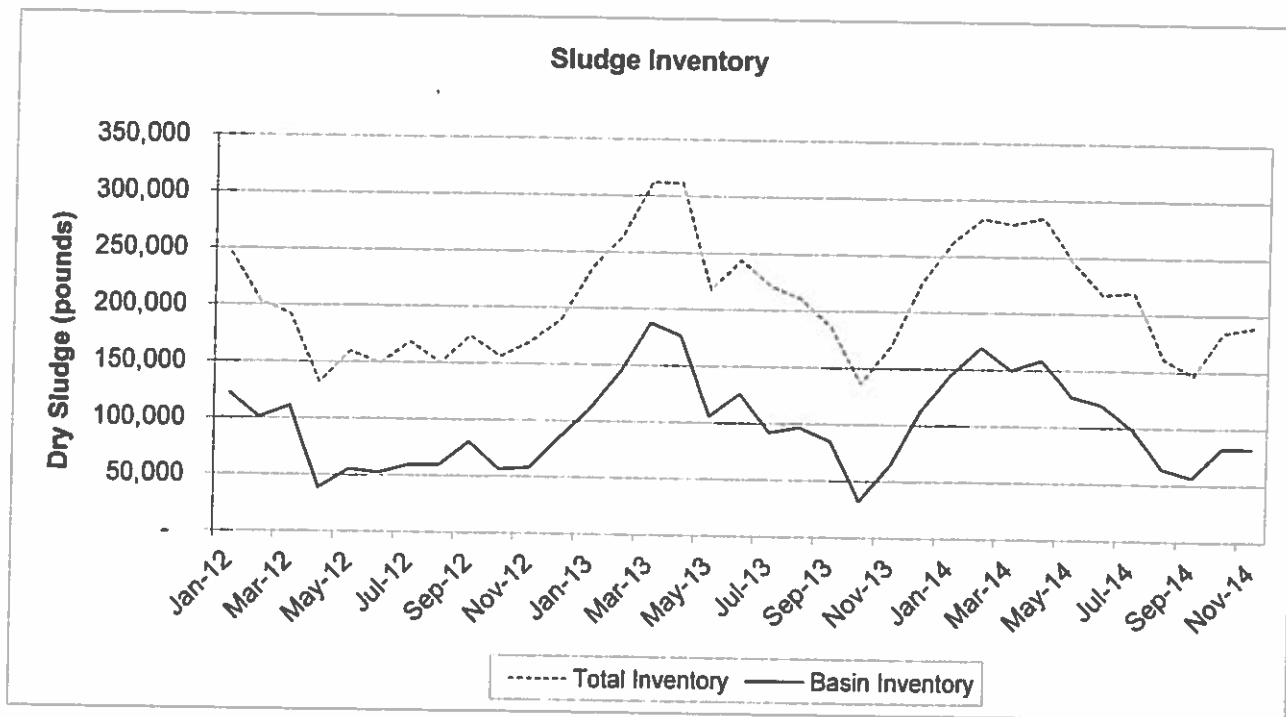


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

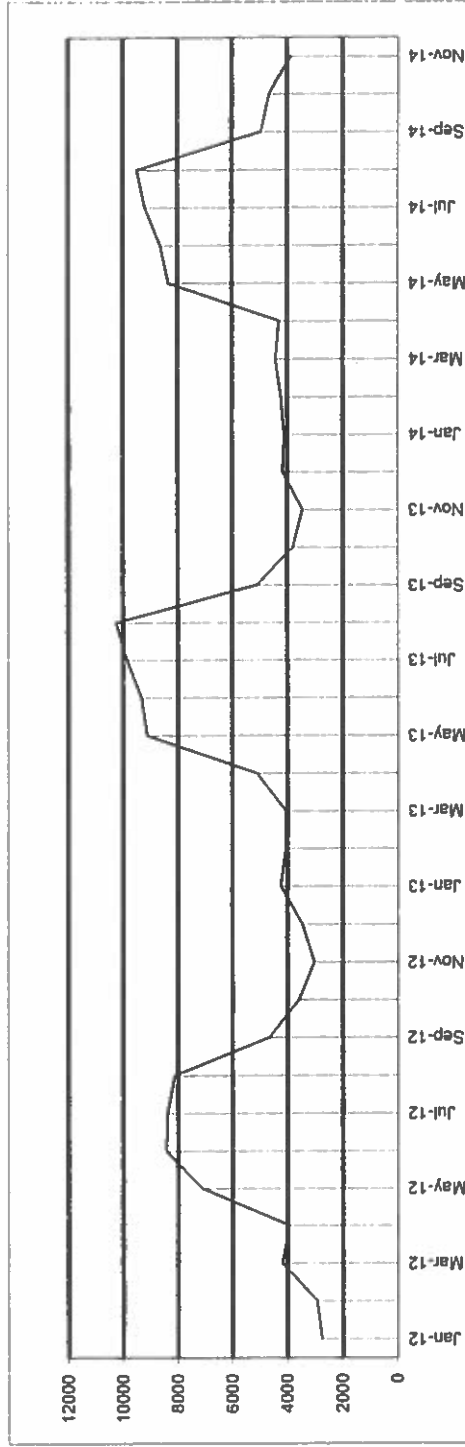


Loads	Gallons	# Dry	Hauled Sludge % Solids	Annual Cumulative # Dry	Basin Depths			# Dry	Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory Gallons	MLSS # Dry	Total Dry Sludge Inventory	Accepted Septage Loads	Gallons		
					Tank #1	Tank #2	AB #1		Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2							
Jan-12	46	170,200	51,317	3.5%	51,317	5.5	3.5	0.0	405,000	122,112	2.0	1.5	0.0	4,060	3,662,167	124,002	0.00406	246,114	18	43,500
Feb-12	42	155,400	46,472	3.6%	97,789	4.5	3.0	0.0	337,500	100,929	1.0	1.0	0.0	3,380	3,635,524	102,483	0.00338	203,411	17	42,500
Mar-12	12	44,400	14,627	4.0%	112,416	5.5	2.0	0.0	337,500	111,185	2.0	2.0	1.5	2,890	3,736,180	81,016	0.0026	182,201	39	103,500
Apr-12	86	316,200	90,939	3.4%	203,355	2.0	1.0	0.0	135,000	38,582	2.0	2.5	2.5	2,870	3,788,499	93,682	0.00297	132,264	37	86,500
May-12	47	173,900	42,846	2.9%	246,001	3.0	2.0	0.0	225,000	55,177	2.0	2.0	2.0	3,070	3,757,904	104,365	0.00333	159,543	26	65,000
Jun-12	56	207,200	60,513	3.5%	306,514	1.0	3.0	0.0	180,000	52,569	1.0	3.0	1.0	3,560	3,714,476	98,809	0.00313	149,378	55	138,000
Jul-12	45	166,500	44,127	3.2%	350,641	5.0	0.0	0.0	225,000	59,631	2.0	1.5	1.0	3,650	3,705,595	109,093	0.00353	168,725	36	80,000
Aug-12	0	-	0	0.0%	350,641	2.5	2.5	0.0	225,000	59,631	1.0	2.0	2.0	3,440	3,718,428	90,399	0.00292	150,030	38	80,000
Sep-12	33	122,100	29,161	2.9%	379,802	4.5	3.0	0.0	337,500	80,605	2.0	0.0	2.5	3,080	3,744,094	93,521	0.003	174,126	37	91,500
Oct-12	40	148,000	41,473	3.4%	421,275	4.5	0.0	0.0	202,500	56,745	1.5	0.0	1.5	3,160	3,691,785	99,758	0.00324	186,503	33	78,500
Nov-12	52	192,400	62,487	3.9%	483,762	2.0	2.0	0.0	180,000	58,460	0.0	5.0	2.0	3,970	3,775,666	111,156	0.00353	189,818	32	86,500
Dec-12	9	33,300	9,720	3.5%	493,482	5.0	1.5	0.0	292,500	85,378	4.0	1.5	0.0	4,030	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	111,652	1.5	2.0	0.0	4,120	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	3,696,714	119,314	0.00387	263,805	56	110,000
Mar-13	8	29,600	8,517	3.5%	8,517	8.0	6.5	0.0	652,500	187,748	2.0	2.0	1.0	4,030	3,714,476	123,915	0.004	311,663	21	52,500
Apr-13	74	273,600	89,488	3.9%	98,005	6.0	6.0	0.0	540,000	176,492	2.5	2.0	2.0	4,820	3,766,785	135,084	0.0043	311,576	24	60,000
May-13	82	303,400	95,228	3.8%	193,233	3.5	4.0	0.0	337,500	105,931	3.0	5.0	2.0	3,970	3,828,952	111,767	0.0035	217,698	36	85,500
Jun-13	54	199,800	62,210	3.7%	256,443	6.0	3.0	0.0	405,000	128,101	1.0	7.0	2.0	3,850	3,828,952	117,994	0.0037	244,095	47	117,500
Jul-13	97	358,900	105,164	3.5%	368,607	6.0	1.0	0.0	315,000	92,301	1.5	2.0	1.0	3,950	3,705,595	129,181	0.00418	221,482	58	137,500
Aug-13	74	273,600	90,989	4.0%	451,576	6.5	0.0	0.0	292,500	97,182	2.0	2.5	2.0	3,580	3,680	114,036	0.00363	211,218	57	142,500
Sep-13	48	177,600	56,069	3.8%	507,645	5.0	1.0	0.0	270,000	85,240	2.0	1.5	1.5	3,150	3,727,309	100,252	0.00323	185,492	39	97,500
Oct-13	83	307,100	110,472	4.3%	616,117	2.0	0.0	0.0	90,000	32,375	2.0	2.0	2.0	2,950	3,757,904	103,895	0.00332	138,271	32	80,000
Nov-13	0	-	0	4.3%	616,117	4.0	0.0	0.0	180,000	64,552	1.0	0.0	1.0	3,220	3,661,190	106,259	0.00348	170,811	15	37,500
Dec-13	0	-	0	4.3%	616,117	5.0	2.0	0.0	315,000	112,965	0.0	0.5	1.0	3,600	3,652,309	113,921	0.00374	228,887	19	47,500
Jan-14	0	-	0	4.3%	-	4.0	5.0	0.0	405,000	145,241	2.0	2.5	0.0	3,690	3,679,929	117,392	0.00383	262,633	22	54,500
Feb-14	0	-	0	4.3%	-	5.0	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	3,631,476	113,894	0.00372	283,341	6	15,000
Mar-14	29	107,300	35,703	4.0%	35,703	5.0	5.0	0.0	450,000	149,733	0.5	0.5	0.5	4,270	3,639,476	129,001	0.00425	278,734	35	90,500
Apr-14	65	240,500	77,176	3.8%	112,879	7.5	3.5	0.0	495,000	158,845	1.5	1.0	1.5	4,420	3,710	125,761	0.00407	284,606	30	75,000
May-14	96	355,200	111,613	3.9%	224,492	5.5	3.5	0.0	405,000	127,261	1.0	2.0	2.0	3,550	3,740,142	118,377	0.00398	245,838	24	60,000
Jun-14	41	151,700	40,455	3.2%	264,947	4.5	5.5	0.0	450,000	120,005	3.0	2.0	2.0	3,530	3,775,666	96,888	0.00398	216,991	28	61,000
Jul-14	117	432,900	112,282	3.1%	377,239	6.5	2.0	0.0	382,500	99,219	5.0	1.5	1.5	4,030	3,780,585	120,445	0.00317	148,882	37	92,500
Aug-14	107	395,800	102,973	3.1%	480,212	5.5	0.0	0.0	247,500	64,374	1.0	1.0	1.0	3,690	3,678,952	97,110	0.00331	161,484	55	129,000
Sep-14	17	62,800	19,011	3.8%	500,023	2.5	1.5	0.0	180,000	56,693	0.0	1.5	1.0	2,670	3,713,499	102,358	0.00331	184,927	33	79,500
Oct-14	5	18,500	6,789	4.4%	506,812	4.0	1.0	0.0	225,000	82,569	0.0	1.5	2.0	2,990	3,678,952	106,775	0.00348	189,341	20	50,000
Nov-14	0	-	0	4.4%	506,812	4.0	1.0	0.0	225,000	82,569	0.0	2.0	1.0	3,630	3,678,952	106,775	0.00348	189,341	20	50,000

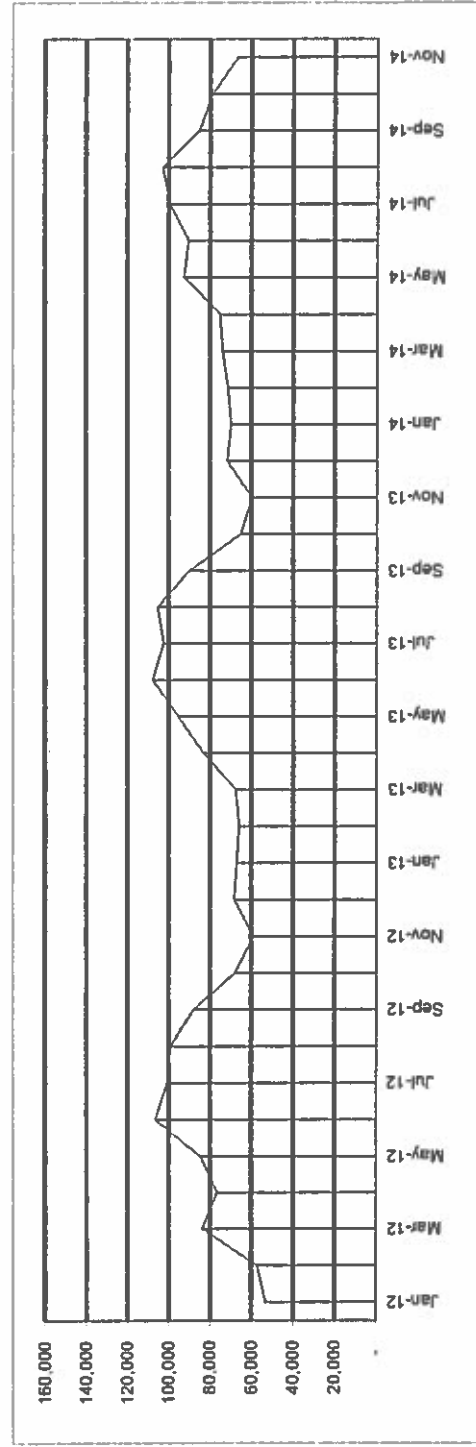


Electric Cost

	Electric Cost	Kilowatts Used
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
Jul-14	9200	99,540
Aug-14	9483	103,070
Sep-14	4953	85,380
Oct-14	4663	78,920
Nov-14	3864	66,400



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						
Nov-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	7.5			15.3	1.628	8.0				7.6		13.1		
2	7.5			16.9	1.716	8.0				7.7		13.4		
3	7.5			17.3	1.796	8.0				7.7		13.9		
4	7.3			17.4	1.917	8.0				7.1		14.6		
5	7.4			17.1	1.585	7.8				7.2		14.4		
6	7.5			16.1	1.394	8.0			0.16	8.0		14.4		
7	7.3	203	220	16.8	1.429	8.0	1.1	1.6		7.4		13.1	99.5	99.3
8	7.4			16.8	1.458	7.9				7.2		13.7		
9	7.4			16.6	1.688	7.8				6.8		13.4		
10	7.3			17.7	1.477	7.9				6.8		14.5		
11	7.3			15.4	1.351	7.9				6.5		13.3		
12	7.4			14.9	1.304	7.9				7.3		11.8		
13	7.5			14.1	1.484	7.9			0.05	7.6		10.7		
14	7.3	205	202	14.1	1.447	7.9	0.9	1.8		9.3		10.7	99.6	99.1
15	7.4			13.7	1.471	7.9				8.6		9.2		
16	7.5			13.6	1.510	7.8				8.4		9.9		
17	7.4			12.5	1.487	7.8				8.8		8.5		
18	7.3			12.9	1.451	7.9				8.1		8		
19	7.4			13.6	1.351	7.9				7.4		8.5		
20	7.4			12.6	1.502	7.8			0.15	7.1		8.9		
21	7.4	210	220	13.1	1.455	7.8	0.8	1.8		6.8		8.6	99.6	99.2
22	7.3			14.4	1.415	7.8				6.8		10.4		
23	7.2			14.6	1.511	7.8				5.8		11.6		
24	7.4			12.6	1.943	7.9				5.8		11.4		
25	7.4			12.6	1.637	7.9				6.2		10.7		
26	7.4	193	230	12.7	1.334	7.9	1.8	0.8	0.40	6.6		9.8	99.1	99.7
27	7.3			12.8	1.566	7.8				6.9		9.4		
28	7.4			12.7	1.386	7.8				9.3		9.3		
29	7.4			13.6	1.662	7.8				7.5		11.3		
30	7.3			14.5	1.586	7.9				7.6		12.1		
Total					45.941									
Avg		203	218	15	1.531		1.1	1.5	0.19	7.4	0.0	11.4	99.4	99.3
Min	7.2	193	202	13	1.304	7.8	0.8	0.8	0.05	5.8	0.0	8.0	99.1	99.1
Max	7.5	210	230	18	1.943	8.0	1.8	1.8	0.40	9.3	0.0	14.6	99.6	99.7

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4			
5	< 5.0		
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 * 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		6.3	2,900	300	12.3	5.4	3,160	360	12.8	25	0	7:30
2		6.9	2,770	280	12.8	6	3,250	380	13.2	43	0	7:30
3		6.2	3,070	330	13.8	5.9	3,050	320	13.9	48	0	7:30
4		4.8	2,930	280	15	3	3,530	370	15.2	46	0.4	7:30
5		4.6	3,550	320	14.4	4.5	3,080	290	14.5	42	0	7:30
6		4.7	3,610	340	14.1	4.7	2,850	310	14.3	48	0	7:30
7		4.6	3,580	320	13.3	5.2	3,070	330	13.2	34	0	7:30
8		4.8	3,630	360	13.7	4.7	2,870	270	13.9	53	0	7:30
9		4.3	3,140	300	13.5	3.3	3,300	350	13.5	35	0	7:30
10		1.7	3,370	310	14.7	2	3,340	340	14.6	52	0	7:30
11		3.0	3,180	350	13.2	3.2	3,180	350	13.2	34	0	7:30
12		4.3	3,330	320	11.8	4.8	3,140	320	11.7	31	0	7:30
13		5.2	3,030	350	10.1	4	2,650	330	10.3	14	0	7:30
14		6.4	2,940	310	9.7	5.9	3,920	370	10.6	20	0	7:30
15		6.1	3,030	320	9.3	5.5	2,960	360	9.5	26	0	7:30
16		5.1	3,180	340	9.6	4	2,970	330	10	36	0	7:30
17		5.6	3,000	340	6.2	4.3	3,030	340	8.1	24	0	7:30
18		3.3	3,100	340	7.5	4.7	3,130	370	7.7	18	0	7:30
19		3.3	3,020	310	8.8	4.7	3,140	350	8.7	41	0	7:30
20		3.6	2,780	300	8	3.5	3,160	380	8.4	24	0	7:30
21		2.7	3,470	340	8.6	3.1	3,230	360	9	27	0	7:30
22		2.3	3,470	350	10.9	3.4	3,120	330	10.8	50	0	7:30
23		1.4	3,600	350	12.2	1.4	3,190	310	12	55	0.25	7:30
24		1.3	3,250	390	11.4	1.3	3,300	340	11.7	40	0.8	7:30
25		1.3	3,550	400	10.2	1.6	2,930	330	10.4	31	0	7:30
26		3.3	3,350	350	9.6	3.9	3,250	330	10	35	0.1	7:30
27		2.8	3,290	370	9.2	4.8	3,210	390	9.5	32	0	7:30
28		3.8	3,340	450	9.1	5.2	3,170	390	9.3	34	0	7:30
29		1.6	3,200	350	11.4	2.2	3,570	420	11.4	52	0	7:30
30		1.7	3,630	400	12.2	1.8	3,330	380	12.4	52	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
Frank Hendricks	<i>Frank Hendricks</i>	(573)365-0455	12/4/2014
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	<i>Gary Hutchcraft</i>	(573)365-0455	12/4/2014

*Required Daily (Monday -Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME Lake of the Ozarks Regional WWP #1
ADDRESS #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241			001 A		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2014	11	01	2014	11	30

FROM

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTD	*****	*****		1.8	1.1	*****	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REQRMNT	*****	*****		Weekly Average 45	Monthly Average 30	*****	mg/L	Weekly	24 Hour Composite	
Flow, in conduit or thru treatment plant (50050)	REPORTD	1.943	1.531		*****	*****	*****		Weekly	24 Hour Composite	
Stage Type: End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	Mgal/d	*****	*****	*****		Daily	Record	
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****		0.40	0.19	*****	mg/L	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum 10.6	Monthly Average 2.7	*****	mg/L	Weekly	Grab	
Oil and grease (sashlet extr.) tot (00550)	REPORTD	*****	*****		<5.0	<5.0	*****	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum 15	Monthly Average 10	*****	mg/L	Monthly	Grab	
pH (00400)	REPORTD	*****	*****		7.8	8.0	*****	SU	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Minimum 6	Maximum 9	*****	SU	Weekly	Grab	
Temperature, water deg. centigrade (00010)	REPORTD	*****	*****		8.0	11.4	*****	deg C	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	deg C	Weekly	Grab	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****		1.8	1.5	*****	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REQRMNT	*****	*****		Weekly Average 45	Monthly Average 30	*****	mg/L	Weekly	24 Hour Composite	

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OUTFALL-SPECIFIC COMMENTS:
PARAMETER-SPECIFIC COMMENTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft	Gary F Hutchcraft	573-365-0455	
TYPED OR PRINTED NAME		Date	
SIGNATURE		2014-12-05 10:40:04	

Page 1

for NOVEMBER 2014

Use following abbreviations: R-rain, Snow, Overcast, C-clear, PC-partly cloudy

Date 12/17/21



**OPERATING
DIVISIONS**

MISSOURI

Atchison County

Bonne Terre

Boonville

Bowling Green

Buchanan County #1

Cameron

Cape Girardeau

Craig

**East Central Missouri
Water & Sewer
Authority**

Elsberry

Fayette

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 December 2014

Submitted by Alliance Water Resources, Inc. for the

January 2015

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	1.5	1.2	NA	0		.06	<5.0	NA
Peak Day	1.8	2.0	7.9	0		.10	<5.0	NA
Percent Removal	99.2	99.4	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 1.153 MGD or 38% of Permitted flow with Lake Ozark contributing 12% of the total flow and Osage Beach contributing 88%. 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 57003 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

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

506,812 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 5.0 feet in Tank 1 and 4.0 feet in Tank 2.

WASTEHAULERS

The plant received 18 loads of septage during the month totaling 40,000 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)
- Hogan's Inc. completed the Clarifier paint project on the 16th of December.
- Bad Apple Collision Center finished the sludge truck paint project on the 17th of December.

SAFETY

- We conducted our monthly routine Safety Meeting on Hazard Communication on the 2nd of December.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR website on the 6th of January.

MISCELLANEOUS AND RECOMMENDATIONS

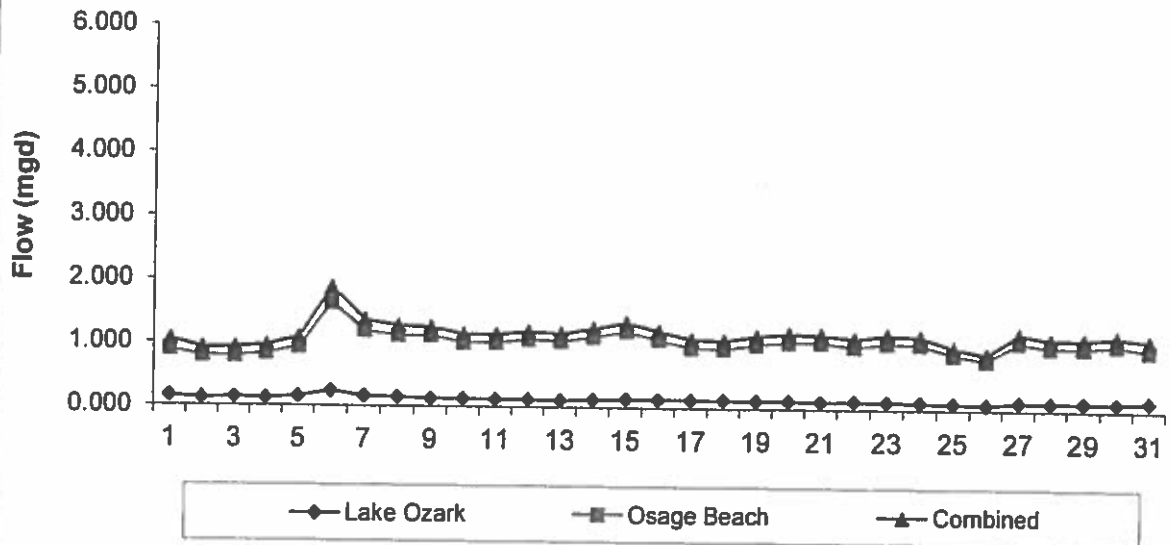
- We mentioned at the last board meeting that we would like to destroy all lab records that were over 5 years old, due to the EPA recommending doing so. We will go through each file before destroying them and keep anything that might need to be kept. All the records are from 1990 to 2008. (Please see attached formal Memo)
- We have also included the updated annual plant inventory and ERP (Emergency Response Plan) in this report. (See Attachments)

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 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-Dec		0.159	0.886	1.045	15.2	84.8						
2-Dec		0.127	0.785	0.912	13.9	86.1						
3-Dec		0.140	0.785	0.925	15.1	84.9						
4-Dec	0.25	0.127	0.826	0.953	13.3	86.7						
5-Dec	0.75	0.155	0.932	1.087	14.3	85.7	195	228	218	182	192	244
6-Dec	0.7	0.241	1.627	1.868	12.9	87.1						
7-Dec		0.167	1.193	1.360	12.3	87.7						
8-Dec		0.152	1.117	1.269	12.0	88.0						
9-Dec		0.131	1.118	1.249	10.5	89.5						
10-Dec		0.132	1.013	1.145	11.5	88.5						
11-Dec		0.125	1.014	1.139	11.0	89.0						
12-Dec		0.124	1.066	1.190	10.4	89.6	220	174	162	240	184	204
13-Dec		0.117	1.039	1.156	10.1	89.9						
14-Dec		0.132	1.111	1.243	10.6	89.4						
15-Dec	0.3	0.138	1.202	1.340	10.3	89.7						
16-Dec		0.136	1.074	1.210	11.2	88.8						
17-Dec		0.137	0.950	1.087	12.6	87.4						
18-Dec	0.2	0.134	0.938	1.072	12.5	87.5						
19-Dec		0.132	1.012	1.144	11.5	88.5	198	175	210	160	174	236
20-Dec		0.132	1.053	1.185	11.1	88.9						
21-Dec		0.122	1.051	1.173	10.4	89.6						
22-Dec		0.131	0.985	1.116	11.7	88.3						
23-Dec	0.3	0.128	1.042	1.170	10.9	89.1						
24-Dec	0.1	0.119	1.031	1.150	10.3	89.7						
25-Dec		0.109	0.868	0.977	11.2	88.8						
26-Dec		0.092	0.784	0.876	10.5	89.5	235	123	175	230	86	188
27-Dec		0.133	1.066	1.199	11.1	88.9						
28-Dec		0.126	0.988	1.114	11.3	88.7						
29-Dec		0.130	0.991	1.121	11.6	88.4						
30-Dec		0.125	1.034	1.159	10.8	89.2						
31-Dec		0.151	0.953	1.104	13.7	86.3						
SUM	2.6	4.204	31.534	35.738								
AVG		0.136	1.017	1.153	12	88	212	175	191	203	159	218
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

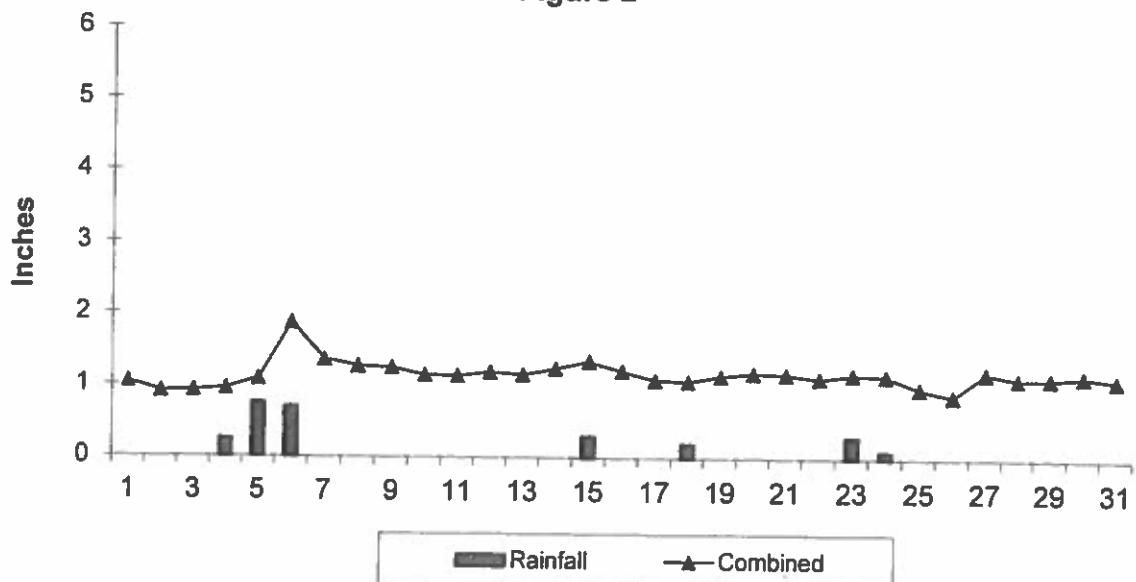
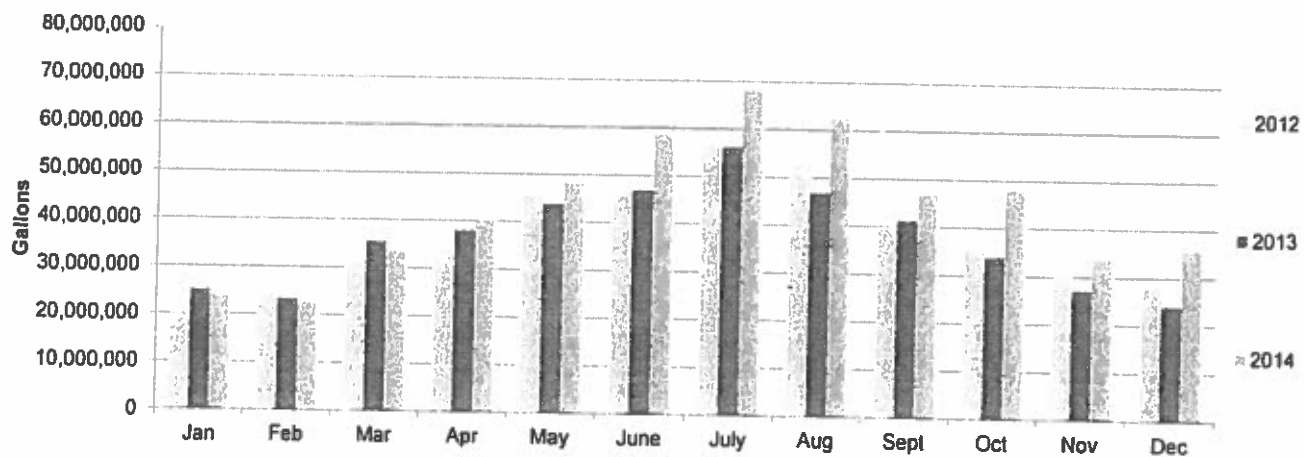


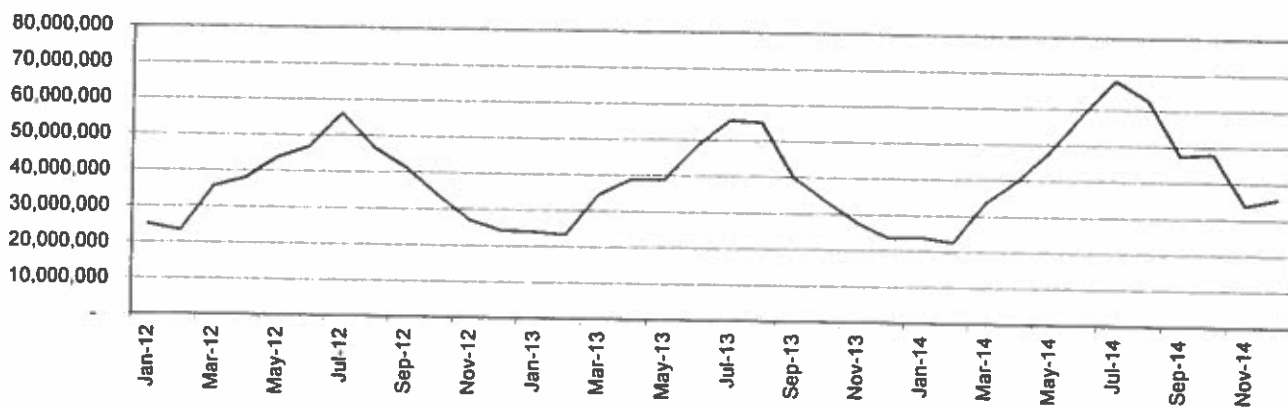
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>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	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%
<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	3.1	59,089,000	87%	9,059,000	13%	68,148,000	100%
August	2.9	54,624,000	87%	8,228,000	13%	62,852,000	100%
September	3.4	40,316,000	86%	6,735,000	14%	47,051,000	100%
October	7.9	41,322,000	86%	6,659,000	14%	47,981,000	100%
November	1.6	29,315,000	87%	4,506,000	13%	33,821,000	100%
December	2.6	31,534,000	88%	4,204,000	12%	35,738,000	100%
	41.7	447,553,000	85%	75,186,000	15%	522,739,000	100%

Monthly Influent Flow
Figure 3A

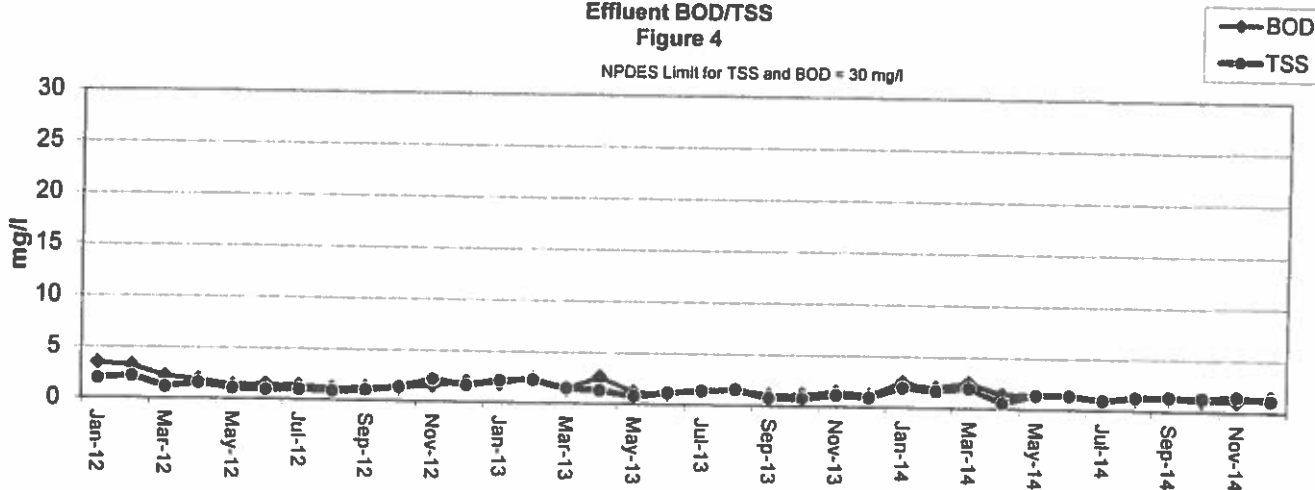


Monthly Influent Flow
Figure 3B

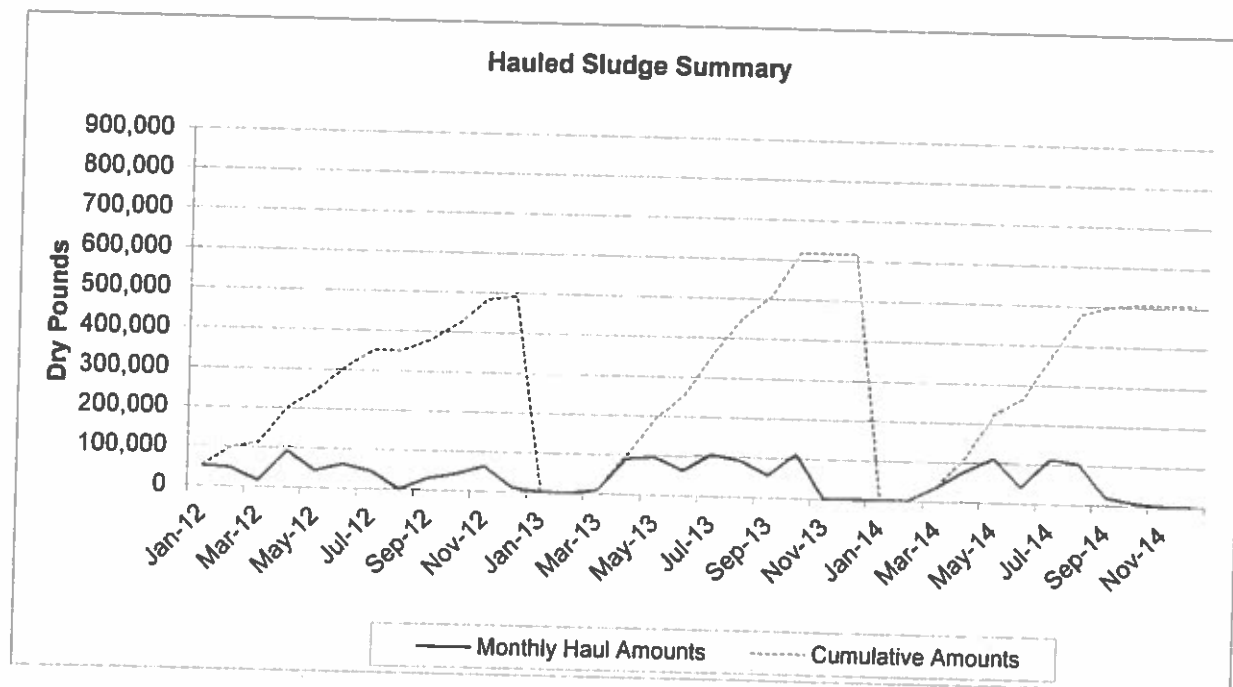
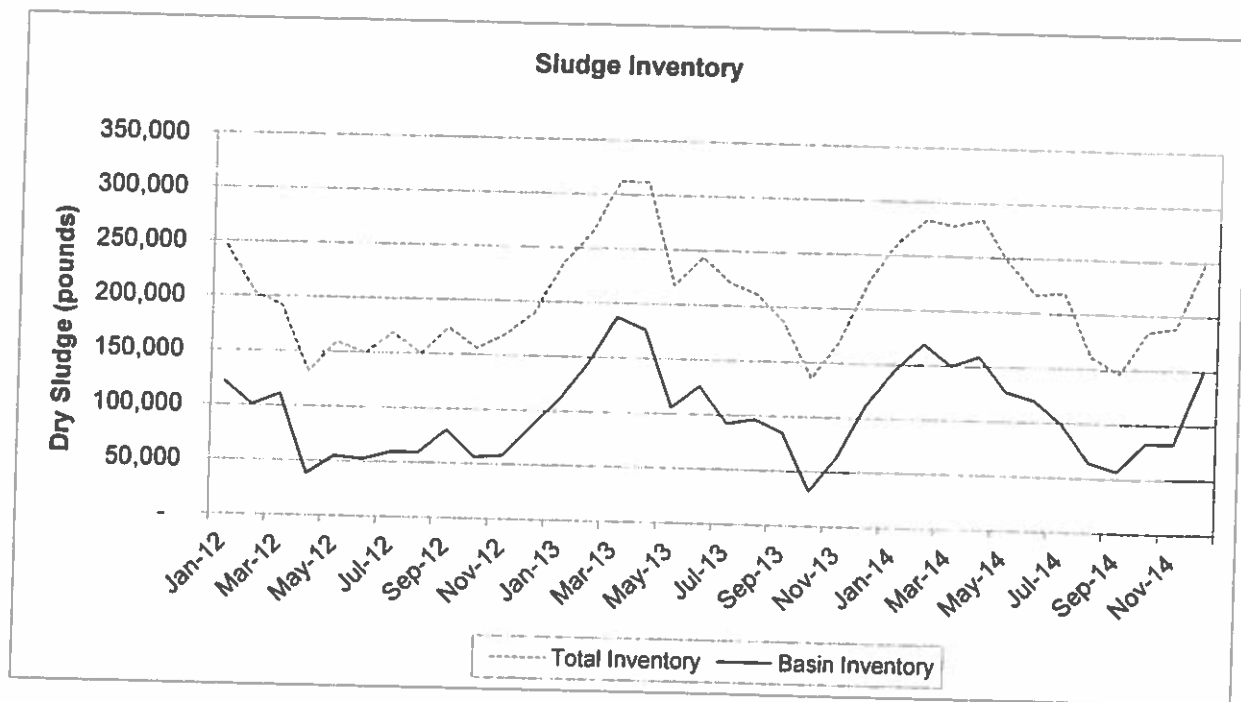


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

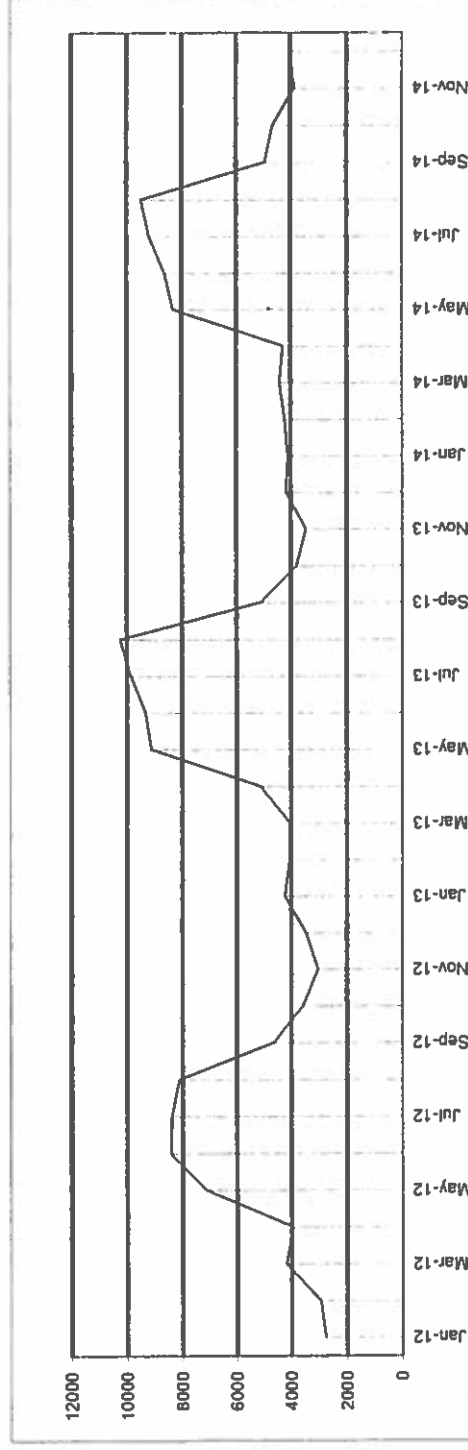


Loads	Gallons	Hauled Sludge			Basin Depths			Blanket Depths			MLSS Inventory			Blanket and MLSS Inventory			Accepted Septage		
		# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Study Inventory	Total Dry
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	3,662,167	124,002	0.00406	286,114	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	3,390	3,635,524	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	3,756,190	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	3,788,469	93,682	0.00287	132,264	37	86,500
May-12	47	173,900	42,648	2.9%	3.0	2.0	0.0	225,000	55,177	2.0	2.0	2.0	3,070	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	3,360	3,714,476	98,809	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	3,440	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	3,650	3,718,428	90,399	0.00292	150,035	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	3,744,094	93,621	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	3,691,785	99,759	0.00324	156,503	33	76,500
Nov-12	52	162,400	62,487	3.9%	2.0	2.0	0.0	180,000	58,490	0.0	5.0	2.0	3,970	3,775,668	111,556	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	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	111,652	1.5	2.0	0.0	4,120	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	3,666,714	119,314	0.00387	263,805	56	110,000
Mar-13	8	29,600	8,517	3.5%	6.0	6.5	0.0	652,500	187,748	2.0	2.0	1.0	4,030	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	3,766,785	135,084	0.0043	311,576	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	3,828,952	111,767	0.0035	217,898	36	85,500
Jun-13	54	189,800	62,210	3.7%	6.0	3.0	0.0	405,000	126,101	1.0	7.0	2.0	3,850	3,828,952	117,984	0.0037	244,095	47	117,500
Jul-13	97	358,900	105,164	3.5%	6.0	1.0	0.0	315,000	92,301	1.5	2.0	1.0	3,950	3,765,595	129,181	0.00418	221,482	58	137,500
Aug-13	74	273,800	90,969	4.0%	6.5	0.0	0.0	292,500	97,162	2.0	2.5	2.0	3,590	3,766,785	114,036	0.00363	211,218	57	142,500
Sep-13	48	177,600	56,089	3.8%	5.0	1.0	0.0	270,000	85,240	2.0	1.5	1.5	3,150	3,727,309	100,252	0.00323	185,492	39	97,500
Oct-13	83	307,100	110,472	4.3%	2.0	0.0	0.0	90,000	32,375	2.0	2.0	2.0	2,950	3,757,904	103,895	0.00332	136,271	32	80,000
Nov-13	0	-	0	4.3%	4.0	0.0	0.0	180,000	64,552	1.0	0.0	1.0	3,220	3,740	108,259	0.00348	170,811	15	37,500
Dec-13	0	-	0	4.3%	5.0	2.0	0.0	315,000	112,965	0.0	0.5	1.0	3,600	3,680	113,821	0.00374	226,887	19	47,500
Jan-14	0	-	0	4.3%	4.0	5.0	0.0	405,000	145,241	2.0	2.5	0.0	3,690	3,679,929	117,392	0.00383	262,633	22	54,500
Feb-14	0	-	0	4.3%	5.0	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	3,671,048	113,894	0.00372	283,341	6	15,000
Mar-14	29	107,300	35,703	4.0%	5.0	5.0	0.0	450,000	149,733	0.5	0.5	0.5	4,270	3,639,476	129,001	0.00425	278,734	35	90,500
Apr-14	65	240,500	77,176	3.8%	7.5	3.5	0.0	485,000	158,845	1.5	1.0	1.5	4,420	3,710	125,781	0.00407	284,606	30	75,000
May-14	96	355,200	111,813	3.8%	5.5	3.5	0.0	405,000	127,261	1.0	2.0	2.0	3,550	3,740,142	118,377	0.0038	245,638	24	60,000
Jun-14	41	151,700	40,455	3.2%	4.5	5.5	0.0	450,000	120,005	3.0	2.0	2.0	3,530	3,775,656	96,986	0.00308	216,991	26	61,000
Jul-14	117	432,900	112,282	3.1%	6.5	2.0	0.0	382,500	99,219	5.0	1.5	1.5	4,030	3,610	120,445	0.00382	219,664	44	111,500
Aug-14	107	395,900	102,973	3.1%	5.5	0.0	0.0	247,500	84,374	1.0	1.0	1.0	3,690	3,678,952	97,110	0.00317	161,484	55	129,000
Sep-14	17	82,900	19,811	3.8%	2.5	1.5	0.0	180,000	56,693	0.0	1.5	1.0	2,970	3,670,071	89,989	0.00284	146,682	37	92,500
Oct-14	5	18,500	6,789	4.4%	4.0	1.0	0.0	225,000	82,569	0.0	1.5	2.0	2,990	3,620	102,358	0.00331	184,927	33	79,500
Nov-14	0	-	0	4.4%	4.0	1.0	0.0	225,000	82,566	0.0	2.0	1.0	3,630	3,678,952	106,775	0.00348	189,341	20	50,000
Dec-14	0	-	0	4.4%	5.0	4.0	0.0	405,000	148,619	0.0	2.0	2.0	3,480	3,722,380	101,516	0.00327	250,135	18	40,000

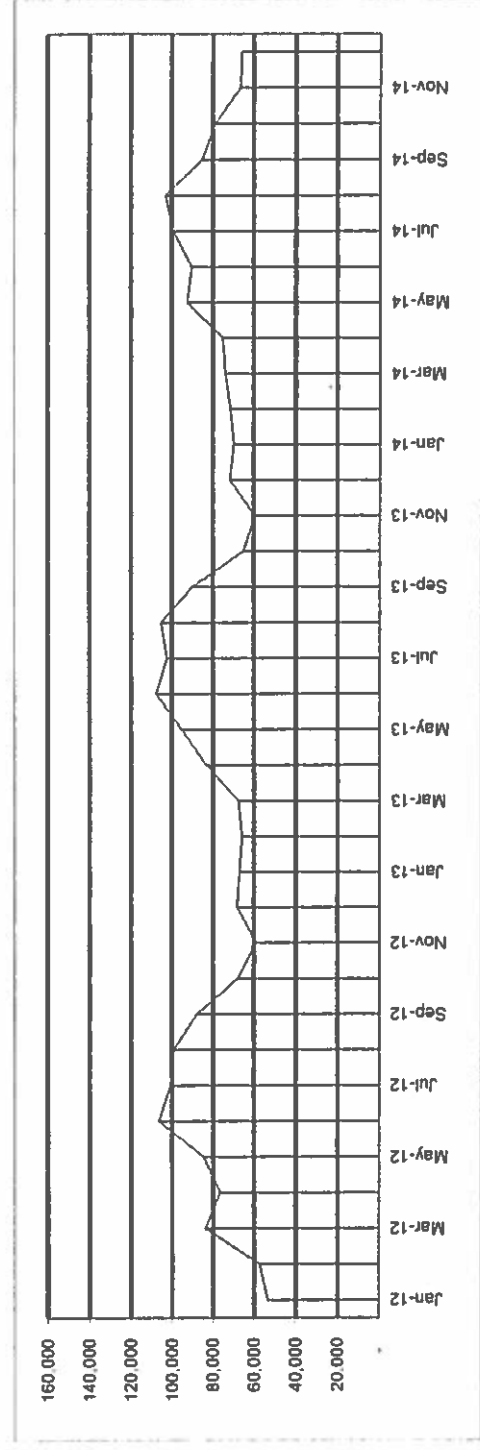


Electric Cost

	Electric Cost	Kilowatts Used
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
Jul-14	9200	99,540
Aug-14	9483	103,070
Sep-14	4953	85,380
Oct-14	4663	78,920
Nov-14	3864	66,400
Dec-14	4009	66,040



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							
Dec-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	7.3			12.1	1.405	7.8				6.7		10.1			
2	7.4			12.3	1.398	7.8				7.6		9.8			
3	7.3			12.5	1.287	7.8				7.9		9.5			
4	7.4			12.4	1.479	7.8			0.05	6.3		9.4			
5	7.3	218	244	13.3	1.592	7.8	1.4	0.6		5.9		10.4	99.4	99.8	
6	7.4			12.5	2.256	7.7				6.0		10.6			
7	7.4			12.3	1.860	7.8				5.9		10.7			
8	7.4			12.8	1.757	7.8				5.9		11			
9	7.4			12.8	1.706	7.8				7.0		10.6			
10	7.4			12.5	1.567	7.7				6.5		10.2			
11	7.4			12.1	1.673	7.8			0.07	6.5		10.2			
12	7.4	162	204	11.8	1.709	7.7	1.0	1		7.0		10.3	99.4	99.5	
13	7.5			12.5	1.425	7.8				7.7		11.2			
14	7.4			12.9	1.672	7.8				7.1		11.5			
15	7.4			13.7	1.692	7.7				7.1		12.6			
16	7.3			12.2	1.610	7.8				5.9		11.1			
17	7.3			11.8	1.502	7.8				7.2		10.2			
18	7.4			11.9	1.615	7.8			0.1	6.5		9.3			
19	7.3	210	236	12.2	1.665	7.8	1.8	2		6.4		9.9	99.1	99.2	
20	7.4			12	1.634	7.8				6.8		10			
21	7.4			12.1	1.668	7.7				6.2		10.5			
22	7.2			13.1	1.560	7.7				6.2		10.6			
23	7.3			11.7	1.608	7.7				6.7		10.2			
24	7.3			12	1.537	7.8				6.3		10.3			
25	7.5			11	1.457	7.8				8.2		9.3			
26	7.4	175	188	12.1	1.298	7.8	1.7	1.2	0.03	7.1		9.7	99.0	99.4	
27	7.5			12	1.513	7.8				7.5		10.4			
28	7.3			11.7	1.607	7.9				7.8		9.4			
29	7.5			10.4	1.640	7.9				7.7		8.5			
30	7.3			11	1.668	7.8				7.2		8.3			
31	7.4			10.3	1.358	7.9			0.05	8.9		6.8			
Total					49.418										
Avg		191	218	12	1.594		1.5	1.2	0.06	6.9	0.0	10.1	99.2	99.4	
Min	7.2	162	188	10	1.287	7.7	1.0	0.6	0.03	5.9	0.0	6.8	99.0	99.2	
Max	7.5	218	244	14	2.256	7.9	1.8	2.0	0.10	8.9	0.0	12.6	99.4	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	< 5.0		
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			
Avg	< 5.0	0.00	0.00
Min	< 5.0	0.00	0.00
Max	< 5.0	0.00	0.00

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

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		1.3	3,690	450	9.4	2.1	3,260	390	10.1	26	0	7:30
2		1.8	3,550	450	9.5	4.3	3,350	500	9.7	32	0	7:30
3		2.6	3,230	340	9.2	5.5	3,480	500	9.3	32	0	7:30
4		1.4	3,720	420	9.3	3.5	3,500	390	9.4	39	0.25	7:30
5		1.2	3,680	490	10.9	1.3	3,410	350	10.8	48	0.75	7:30
6		1.1	3,930	500	10.9	1.3	2,860	300	11.2	42	0.7	7:30
7		1.3	4,110	520	10.5	2.9	2,860	290	10.6	39	0	7:30
8		1.0	3,640	410	11.1	1.5	3,280	370	11.2	45	0	7:30
9		4.1	3,630	390	10.2	5	4,040	610	10.5	37	0	7:30
10		1.9	3,490	440	9.9	2.2	3,210	400	10.2	37	0	7:30
11		2.3	2,960	320	10	2.8	3,300	380	10.1	40	0	7:30
12		3.2	2,950	320	10.2	1.9	4,040	510	10.8	40	0	7:30
13		3.9	3,100	330	11.2	4.3	3,400	450	11.1	46	0	7:30
14		1.8	3,630	420	11.6	4.1	3,140	350	11.6	44	0	7:30
15		1.3	3,510	380	12.8	1.6	3,310	390	12.7	53	0.3	7:30
16		1.6	2,960	410	10.9	2.1	3,370	390	11.1	35	0	7:30
17		2.6	3,500	410	9.7	3.4	3,140	370	10	28	0	7:30
18		2.8	3,600	420	9.2	3.5	2,550	340	9.5	35	0.2	7:30
19		2.3	3,540	420	10.1	3.6	3,120	380	9.9	38	0	7:30
20		3.2	3,430	400	10.1	4	3,160	360	10	41	0	7:30
21		2.5	3,370	390	10.4	3.1	3,290	360	10.4	44	0	7:30
22		1.8	3,270	390	10.7	2.6	3,610	410	10.7	46	0	7:30
23		1.0	4,190	550	9.9	1.9	3,020	340	10.3	35	0.3	7:30
24		2.3	4,010	480	10.6	3.8	3,090	310	10.5	40	0.1	7:30
25		3.7	3,440	420	9.1	5.5	3,110	410	9.2	30	0	7:30
26		4.8	3,640	420	10	4.8	3,520	370	10	42	0	7:30
27		2.9	3,210	390	10.4	4.8	2,840	340	10.7	44	0	7:30
28		3.9	3,420	400	9.1	5.3	2,960	330	9.4	30	0	7:30
29		4.3	3,400	430	7.7	4.6	3,070	340	7.6	22	0	7:30
30		3.4	3,320	400	8.1	4.5	2,980	350	8.6	30	0	7:30
31		5.9	3,480	400	7	5.7	3,060	360	7.1	17	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 1/2/2015
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 1/2/2015

*Required Daily (Monday- Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP #1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2014	12	01	2014
TO		31	

FROM

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTD	*****		1.8	1.5	*****	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****		Weekly Average: 45	Monthly Average: 30	*****	Weekly	24 Hour Composite
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.256	1.594	*****	*****	*****	Daily	Record
Stage Type: End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	*****	*****	Daily	Record
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****		0.1	.86	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum: 10.6	Monthly Average: 2.7	*****	Weekly	Grab
Oil and grease (soluble extr.) tot. (00550)	REPORTD	*****		<5.0	<5.0	*****	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum: 15	Monthly Average: 10	*****	Monthly	Grab
pH (00400)	REPORTD	*****		7.7	7.9	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Minimum: 6	Maximum: 9	*****	Weekly	Grab
Temperature, water deg. centigrade (00010)	REPORTD	*****		12.6	10.1	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	Weekly	Grab
Total Suspended Solids (TSS) (00530)	REPORTD	*****		2.0	1.2	*****	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****		Weekly Average: 45	Monthly Average: 30	*****	Weekly	24 Hour Composite

GENERAL PERMIT REQUIREMENTS OR COMMENTS:

CUT-ALL-SPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305
Gary Hutchcraft		
TYPED OR PRINTED NAME	CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	373-365-0455
TYPED OR PRINTED NAME	SIGNATURE	Date

Page 1

LAKE OZARKOSAGE BEACH WWTP
Operation Report

DATE DECEMBER 2014 YEAR

DATE	FERTILIZER	PLANT NUTRIENT ANALYSIS										PLANT GROWTH & DEVELOPMENT										PLANT HEALTH & DISEASE										PLANT YIELD & QUALITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		NUTRIENT CONCENTRATION (%)					NUTRIENT AVAILABILITY (%)					PLANT HEIGHT (cm)					PLANT WEIGHT (g)					PLANT DISEASE (%)					PLANT YIELD (kg/ha)					PLANT QUALITY (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	2	3	4	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	10/10/2024	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	42.0	43.5	45.0	46.5	48.0	49.5	51.0	52.5	54.0	55.5	57.0	58.5	60.0	61.5	63.0	64.5	66.0	67.5	69.0	70.5	72.0	73.5	75.0	76.5	78.0	79.5	81.0	82.5	84.0	85.5	87.0	88.5	90.0	91.5	93.0	94.5	96.0	97.5	99.0	100.0	101.5	103.0	104.5	106.0	107.5	109.0	110.5	112.0	113.5	115.0	116.5	118.0	119.5	121.0	122.5	124.0	125.5	127.0	128.5	130.0	131.5	133.0	134.5	136.0	137.5	139.0	140.5	142.0	143.5	145.0	146.5	148.0	149.5	151.0	152.5	154.0	155.5	157.0	158.5	160.0	161.5	163.0	164.5	166.0	167.5	169.0	170.5	172.0	173.5	175.0	176.5	178.0	179.5	181.0	182.5	184.0	185.5	187.0	188.5	190.0	191.5	193.0	194.5	196.0	197.5	199.0	200.5	202.0	203.5	205.0	206.5	208.0	209.5	211.0	212.5	214.0	215.5	217.0	218.5	220.0	221.5	223.0	224.5	226.0	227.5	229.0	230.5	232.0	233.5	235.0	236.5	238.0	239.5	241.0	242.5	244.0	245.5	247.0	248.5	250.0	251.5	253.0	254.5	256.0	257.5	259.0	260.5	262.0	263.5	265.0	266.5	268.0	269.5	271.0	272.5	274.0	275.5	277.0	278.5	280.0	281.5	283.0	284.5	286.0	287.5	289.0	290.5	292.0	293.5	295.0	296.5	298.0	299.5	301.0	302.5	304.0	305.5	307.0	308.5	310.0	311.5	313.0	314.5	316.0	317.5	319.0	320.5	322.0	323.5	325.0	326.5	328.0	329.5	331.0	332.5	334.0	335.5	337.0	338.5	340.0	341.5	343.0	344.5	346.0	347.5	349.0	350.5	352.0	353.5	355.0	356.5	358.0	359.5	361.0	362.5	364.0	365.5	367.0	368.5	370.0	371.5	373.0	374.5	376.0	377.5	379.0	380.5	382.0	383.5	385.0	386.5	388.0	389.5	391.0	392.5	394.0	395.5	397.0	398.5	400.0	401.5	403.0	404.5	406.0	407.5	409.0	410.5	412.0	413.5	415.0	416.5	418.0	419.5	421.0	422.5	424.0	425.5	427.0	428.5	430.0	431.5	433.0	434.5	436.0	437.5	439.0	440.5	442.0	443.5	445.0	446.5	448.0	449.5	451.0	452.5	454.0	455.5	457.0	458.5	460.0	461.5	463.0	464.5	466.0	467.5	469.0	470.5	472.0	473.5	475.0	476.5	478.0	479.5	481.0	482.5	484.0	485.5	487.0	488.5	490.0	491.5	493.0	494.5	496.0	497.5	499.0	500.5	502.0	503.5	505.0	506.5	508.0	509.5	511.0	512.5	514.0	515.5	517.0	518.5	520.0	521.5	523.0	524.5	526.0	527.5	529.0	530.5	532.0	533.5	535.0	536.5	538.0	539.5	541.0	542.5	544.0	545.5	547.0	548.5	550.0	551.5	553.0	554.5	556.0	557.5	559.0	560.5	562.0	563.5	565.0	566.5	568.0	569.5	571.0	572.5	574.0	575.5	577.0	578.5	580.0	581.5	583.0	584.5	586.0	587.5	589.0	590.5	592.0	593.5	595.0	596.5	598.0	599.5	601.0	602.5	604.0	605.5	607.0	608.5	610.0	611.5	613.0	614.5	616.0	617.5	619.0	620.5	622.0	623.5	625.0	626.5	628.0	629.5	631.0	632.5	634.0	635.5	637.0	638.5	640.0	641.5	643.0	644.5	646.0	647.5	649.0	650.5	652.0	653.5	655.0	656.5	658.0	659.5	661.0	662.5	664.0	665.5	667.0	668.5	670.0	671.5	673.0	674.5	676.0	677.5	679.0	680.5	682.0	683.5	685.0	686.5	688.0	689.5	691.0	692.5	694.0	695.5	697.0	698.5	700.0	701.5	703.0	704.5	706.0	707.5	709.0	710.5	712.0	713.5	715.0	716.5	718.0	719.5	721.0	722.5	724.0	725.5	727.0	728.5	730.0	731.5	733.0	734.5	736.0	737.5	739.0	740.5	742.0	743.5	745.0	746.5	748.0	749.5	751.0	752.5	754.0	755.5	757.0	758.5	760.0	761.5	763.0	764.5	766.0	767.5	769.0	770.5	772.0	773.5	775.0	776.5	778.0	779.5	781.0	782.5	784.0	785.5	787.0	788.5	790.0	791.5	793.0	794.5	796.0	797.5	799.0	800.5	802.0	803.5	805.0	806.5	808.0	809.5	811.0	812.5	814.0	815.5	817.0	818.5	820.0	821.5	823.0	824.5	826.0	827.5	829.0	830.5	832.0	833.5	835.0	836.5	838.0	839.5	841.0	842.5	844.0	845.5	847.0	848.5	850.0	851.5	853.0	854.5	856.0	857.5	859.0	860.5	862.0	863.5	865.0	866.5	868.0	869.5	871.0	872.5	874.0	875.5	877.0	878.5	880.0	881.5	883.0	884.5	886.0	887.5	889.0	890.5	892.0	893.5	895.0	896.5	898.0	899.5	901.0	902.5	904.0	905.5	907.0	908.5	910.0	911.5	913.0	914.5	916.0	917.5	919.0	920.5	922.0	923.5	925.0	926.5	928.0	929.5	931.0	932.5	934.0	935.5	937.0	938.5	940.0	941.5	943.0	944.5	946.0	947.5	949.0	950.5	952.0	953.5	955.0	956.5	958.0	959.5	961.0	962.5	964.0	965.5	967.0	968.5	970.0	971.5	973.0	974.5	976.0	977.5	979.0	980.5	982.0	983.5	985.0	986.5	988.0	989.5	991.0	992.5	994.0	995.5	997.0	998.5	1000.0
2	10/11/2024	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	42.0	43.5	45.0	46.5	48.0	49.5	51.0	52.5	54.0	55.5	57.0	58.5	60.0	61.5	63.0	64.5	66.0	67.5	69.0	70.5	72.0	73.5	75.0	76.5	78.0	79.5	81.0	82.5	84.0	85.5	87.0	88.5	90.0	91.5	93.0	94.5	96.0	97.5	99.0	100.0	101.5	103.0	104.5	106.0	107.5	109.0	110.5	112.0	113.5	115.0	116.5	118.0	119.5	121.0	122.5	124.0	125.5	127.0	128.5	130.0	131.5	133.0	134.5	136.0	137.5	139.0	140.5	142.0	143.5	145.0	146.5	148.0	149.5	151.0	152.5	154.0	155.5	157.0	158.5	160.0	161.5	163.0	164.5	166.0	167.5	169.0	170.5	172.0	173.5	175.0	176.5	178.0	179.5	181.0	182.5	184.0	185.5	187.0	188.5	190.0	191.5	193.0	194.5	196.0	197.5	199.0	200.5	202.0	203.5	205.0	206.5	208.0	209.5	211.0	212.5	214.0	215.5	217.0	218.5	220.0	221.5	223.0	224.5	226.0	227.5	229.0	230.5	232.0	233.5	235.0	236.5	238.0	239.5	241.0	242.5	244.0	245.5	247.0	248.5	250.0	251.5	253.0	254.5	256.0	257.5	259.0	260.5	262.0	263.5	265.0	266.5	268.0	269.5	271.0	272.5	274.0	275.5	277.0	278.5	280.0	281.5	283.0	284.5	286.0	287.5	289.0	290.5	292.0	293.5	295.0	296.5	298.0	299.5	301.0	302.5	304.0	305.5	307.0	308.5	310.0	311.5	313.0	314.5	316.0	317.5	319.0	320.5	322.0	323.5	325.0	326.5	328.0	329.5	331.0	332.5	334.0	335.5	337.0	338.5	340.0	341.5	343.0	344.5	346.0	347.5	349.0	350.5	352.0	353.5	355.0	356.5	358.0	359.5	361.0	362.5	364.0	365.5	367.0	368.5	370.0	371.5	373.0	374.5	376.0	377.5	379.0	380.5	382.0	383.5	385.0	386.5	388.0	389.5	391.0	392.5	394.0	395.5	397.0	398.5	400.0	401.5	403.0	404.5	406.0	407.5	409.0	410.5	412.0	413.5	415.0	416.5	418.0	419.5	421.0	422.5	424.0	425.5	427.0	428.5	430.0	431.5	433.0	434.5	436.0	437.5	439.0	440.5	442.0	443.5	445.0	446.5	448.0	449.5	451.0	452.5	454.0	455.5	457.0	458.5	460.0	461.5	463.0	464.5	466.0	467.5	469.0	470.5	472.0	473.5	475.0	476.5	478.0	479.5	481.0	482.5	484.0	485.5	487.0	488.5	490.0	491.5	493.0	494.5	496.0	497.5	499.0	500.5	502.0	503.5	505.0	506.5	508.0	509.5	511.0	512.5	514.0	515.5	517.0	518.5	520.0	521.5	523.0	524.5	526.0	527.5	529.0	530.5	532.0	533.5	535.0	536.5	538.0	539.5	541.0	542.5	544.0	545.5	547.0	548.5	550.0	551.5	553.0	554.5	556.0	557.5	559.0	560.5	562.0	563.5	565.0	566.5	568.0	569.5	571.0	572.5	574.0	575.5	577.0	578.5	580.0	581.5	583.0	584.5	586.0	587.5	589.0	590.5	592.0	593.5	595.0	596.5	598.0	599.5	601.0	602.5	604.0	605.5	607.0	608.5	610.0	611.5	613.0	614.5	616.0	617.5	619.0	620.5	622.0	623.5	625.0	626.5	628.0	629.5	631.0	632.5	634.0	635.5	637.0	638.5	640.0	641.5	643.0	644.5	646.0	647.5	649.0	650.5	652.0	653.5	655.0	656.5	658.0	659.5	661.0	662.5	664.0	665.5	667.0	668.5	670.0	671.5	673.0	674.5	676.0	677.5	679.0	680.5	682.0	683.5	685.0	686.5	688.0	689.5	691.0	692.5	694.0	695.5	697.0	698.5	700.0	701.5	703.0	704.5	706.0	707.5	709.0	710.5	712.0	713.5	715.0	716.5	718.0	719.5	721.0	722.5	724.0	725.5	727.0	728.5	730.0	731.5	733.0	734.5	736.0	737.5	739.0	740.5	742.0	743.5	745.0	746.5	748.0	749.5	751																																																																																																																																																																						

Use following abbreviations: R-7a is, S-arrow, O-overline is, C-clear, F-clearly cloud.

Prepared by: GH, FR, JJ

Approved by _____ GII

Date 1/22/2015



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

December 31, 2014

The Honorable Penny Lyon, Chairperson
Joint Sewer Treatment Board
P.O. Box 370
Lake Ozark, MO 65049

Dear Chairperson Lyon:

Enclosed you will find an inspection report for the Lake of the Ozarks Regional Wastewater Treatment Facility #1 serving the Cities of Lake Ozark and Osage Beach. I believe the report is self-explanatory and trust you will address any unsatisfactory features noted, as well as any recommendations contained therein.

By January 30, 2015 please advise this office as to what actions have and will be taken to address the items noted in the report.

If you have questions, please contact Gregory S. Perkins, P.E. by calling 417-891-4300 or via mail at Southwest Regional Office, 2040 West Woodland, Springfield, Missouri 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE

Kevin Hess, Chief
Water Pollution Section

KH/gpk

Enclosures

c: Mr. Gary Hutchcraft, Alliance Water Resources, Inc.
City of Lake Ozark
City of Osage Beach

131.wpcp.LakeoftheOzarkRegionalWWTP#1.mo0103241.wwtf.2014.12.31.fy15.insp.x.gsp



MISSOURI DEPARTMENT OF NATURAL RESOURCES
REPORT OF INSPECTION
LAKE OF THE OZARKS REGIONAL WASTEWATER TREATMENT FACILITY #1
SERVING
CITIES OF LAKE OZARK AND OSAGE BEACH
MISSOURI STATE OPERATING PERMIT MO0103241
MILLER COUNTY, MISSOURI

December 31, 2014

INTRODUCTION

On October 8, 2014, Gregory S. Perkins, P.E. of the Missouri Department of Natural Resources (department) Southwest Regional Office conducted a routine inspection of the Lake of the Ozark Regional Wastewater Treatment #1 facility serving the Cities of Lake Ozark and Osage Beach (Facility). The purpose of the inspection was to assess compliance with the Missouri Clean Water Law (MCWL), Missouri Clean Water Commission (MCWC) regulations and the facility's Missouri State Operating Permit (MSOP) MO0103241. The inspection also served to promote proper operation and to provide technical assistance where necessary.

WASTEWATER TREATMENT FACILITY DESCRIPTION

Outfall #001 - POTW - SIC# 4952 - **Certified B Operator Required**

Bar Screens/ Grit Removal/ RAS Control/ and Odor Control/ 2 Oxidation Ditches/ 3 Secondary Clarifiers/ UV Disinfection/ Cascade Aeration. 2 Sludge storage tanks and is land applied by the permittee.

Design population equivalent is 42,860.

Design flow is 3.0 MGD.

Actual flow is 1.5 MGD.

Design sludge production is 658.8 dry tons/year.

This permit will expire on December 9, 2015. The facility description is accurate and depicts the facilities onsite. The facility is located at the NE1/4, NW1/4, Section 33, T40N, R15W, Miller County. The Universal Transverse Mercator location is X=535318 / Y=4226211. The last inspection was made on August 27, 2008, with no outstanding issues being noted during that inspection. Mr. Gary Hutchcraft, Alliance Water Resources, Chief Operator, was the primary contact during the inspection.

DISCUSSION OF INSPECTION AND OBSERVATIONS

The field portion of the inspection was conducted on October 8, 2014. No samples were collected during the inspection. It was noted that samples had been collected by Mr. Brandon Baumhoer of the Environmental Services Program from Jefferson City on October 2, 2014. The compliance portion of the inspection began with an onsite records review and tour of the wastewater treatment facility.

Observations of non-compliance made during the inspection included laboratory issues, Standard Conditions Part III issues, and annual Inflow and Infiltration report deficiencies.

There were no significant impacts on the receiving stream from the discharge.

A file review of the Discharge Monitoring Reports was made from December 2012 through November 2014. The review indicated the facility was in compliance with MSOP discharge limitations.

Enclosed is a copy of the results of sample analysis for samples obtained during the inspection. Those results also indicated compliance with MSOP discharge limitations.

COMPLIANCE ISSUES

Laboratory procedures did not conform to MSOP Standard Conditions Part I, Section A as noted below. The City failed to conform to analytical and sampling methods listed in MSOP Standard Conditions Part I, Section A, item 4 as required by RSMo 644.076.1 and MCWC Regulation 10 CSR20-7.015 (9)(D)2 and 3.

1. The Facility's onsite laboratory was using the pH buffer 7 as the known standard for the third check of the pH meter. While this procedure is acceptable in accordance with "*Standard Methods for the Examination of Water and Wastewater, 22nd Edition*", as long as the 7.0 buffer is verified by a second source, please see section 4020 B.2.e. However, please note that we recommend a second known standard that is in the range of pH values that are routinely analyzed and should be done at least monthly. It should also be noted that the department does not recognize "*Standard Methods for the Examination of Water and Wastewater, 22nd Edition*" per 10 CSR 20-7.015(9)(D)2.

2. The Facility is not collecting a 24-hour composite as required in the MSOP. The facility was working from a draft proposed change to Standard Conditions Part I which was not adopted. The Facility is reminded that compliance is measured by the contents of the issued permit, not from draft documents. Once proposed changes are adopted, if the Facility feels the need to change to the new Standard Conditions Part I, a modification with fee may be requested, if not the changes will be made during the next renewal.
3. The Facility is not conducting the percent recovery calculations for Ammonia as Nitrogen. These calculations are necessary to ensure the accuracy of the sample results being reported.
4. The Facility is doing weekly Influent *E-Coli* samples for Quality Assurance / Quality Control (QA/QC) purposes. As stated in "*Standard Methods for the Examination of Water and Wastewater, 22nd Edition*" Section 9020B.9.b. "Use certified reference cultures. For each lot of medium received, each laboratory-prepared batch of medium, and each lot of purchased prepared medium, verify appropriate response by testing with known positive and negative control cultures for the organism under test." All portions of item 9 must be followed to ensure the accuracy of the sample results including the logarithmic calculations on duplicate sample results.

A review of the *Form S – Domestic Sludge Reporting* form has indicated the City failed to supply all the necessary information to document Plant Available Nitrogen (PAN) determination. The City's MSOP Standard Conditions Part III Section H, item 6. WQ 426 item 6 requires the PAN determination if the total nitrogen content of the biosolids does not exceed 50,000 mg/kg of total nitrogen, and the biosolids application rate is less than two (2) dry tons per acre per year. The biosolids applied in 2013 exceeded the two dry tons of biosolids applied on the Larry Bailey fields 33 and 35. The Facility failed to report the available nitrogen in the soil and the tonnage of crops expected and removed from the field. While there appears to be conflict between WQ 426, WQ 423, and Section K of the Standard Conditions Part III, the Water Protection Program believes the correct approach is to confirm that the PAN has not been exceeded.

A review of the annual Inflow and Infiltration reports indicates the Cities of Lake Ozark and Osage Beach are not submitting individual reports as recommended in MSOP Special Condition 8. Please find enclosed a form that should be used to submit the reports.

Lake of the Ozarks Regional Wastewater Treatment Facility #1

Report of Inspection

December 31, 2014

Page 4

SUMMARY

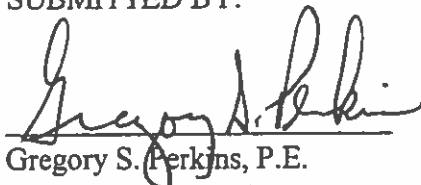
The City must continue with efforts to achieve and maintain compliance with all MSOP limitations and Conditions.

Improve laboratory procedures including QA/QC analysis and keep permanent records as noted above. Maintain on file for inspection purposes and in ink all information as required by the Standard Conditions Part I, Section A, Item 5.a.

Properly document the Plant Available Nitrogen approach for biosolids application. Ensure that no biosolids are applied if the analysis for Pathogen and Vector Attraction does not comply with limitations.

Continue with efforts to reduce Inflow and Infiltration into the collection system.

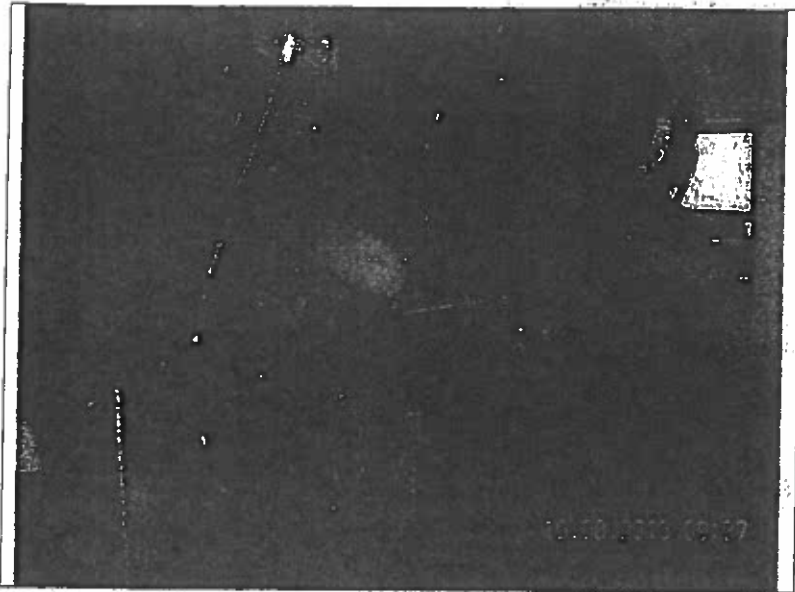
SUBMITTED BY:

A handwritten signature in black ink, appearing to read "Gregory S. Perkins", is written over a horizontal line.

Gregory S. Perkins, P.E.

Environmental Engineer

Southwest Regional Office



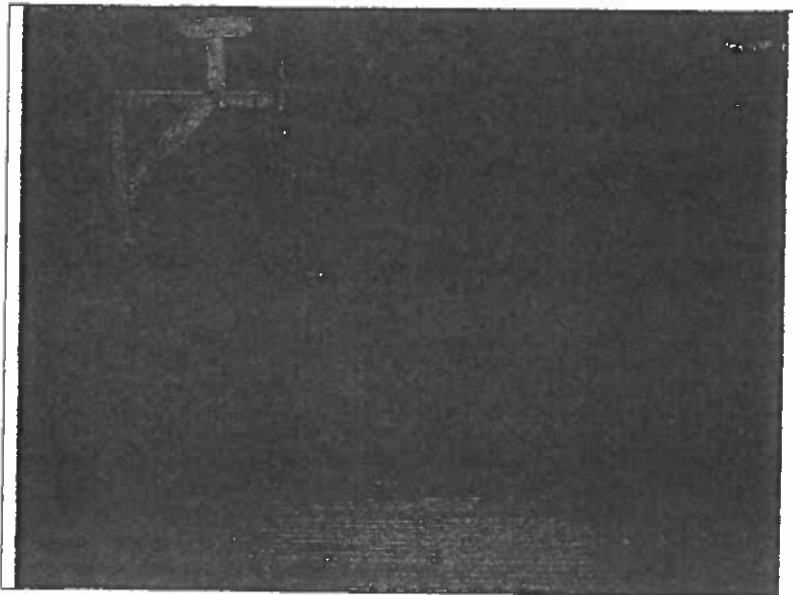
Photograph 1

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: W

Comments: Influent automatic screening equipment



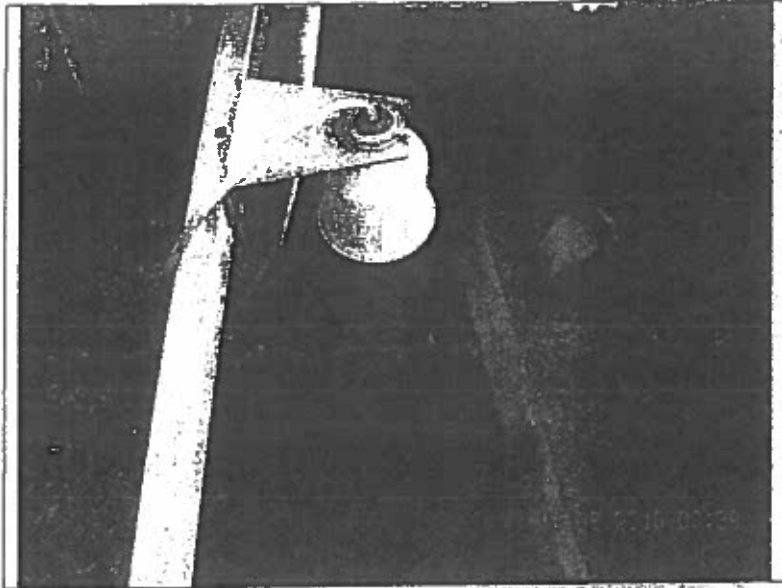
Photograph 2

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: N

Comments: Influent grit removal equipment



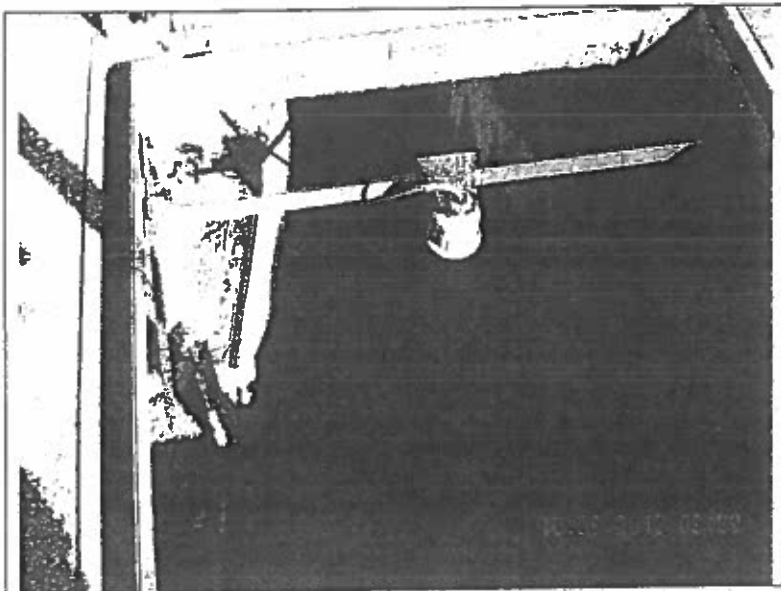
Photograph 3

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: NE

Comments: Influent flow meter for Lake Ozark



Photograph 4

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: E

Comments: Influent flow meter Osage Beach



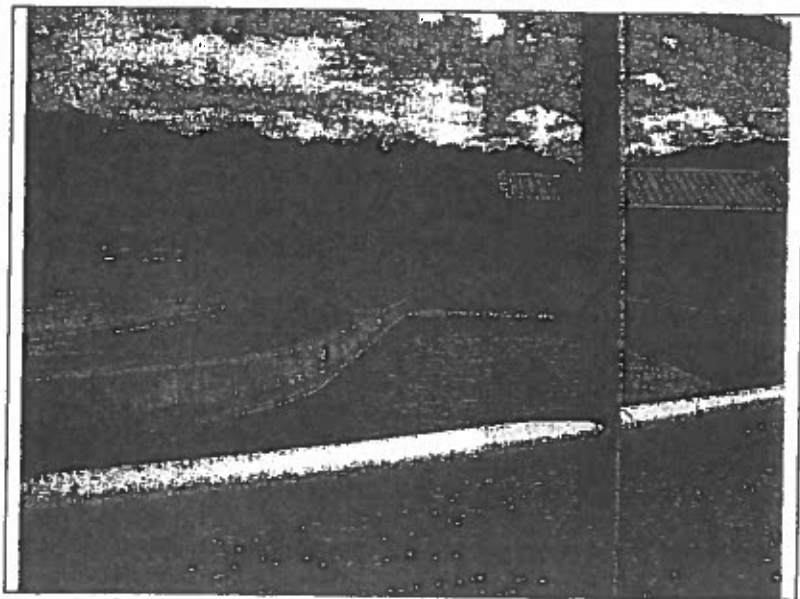
Photograph 5

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: W

Comments: Aeration equipment



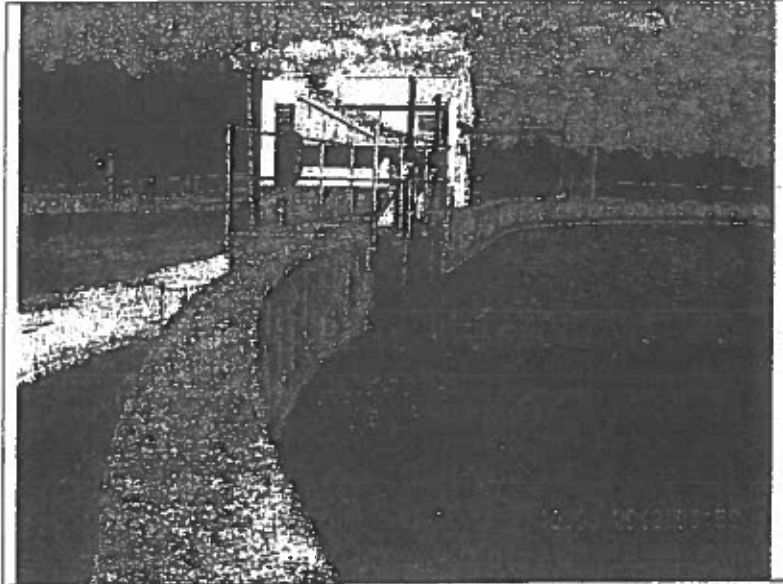
Photograph 6

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: E

Comments: Aeration basin



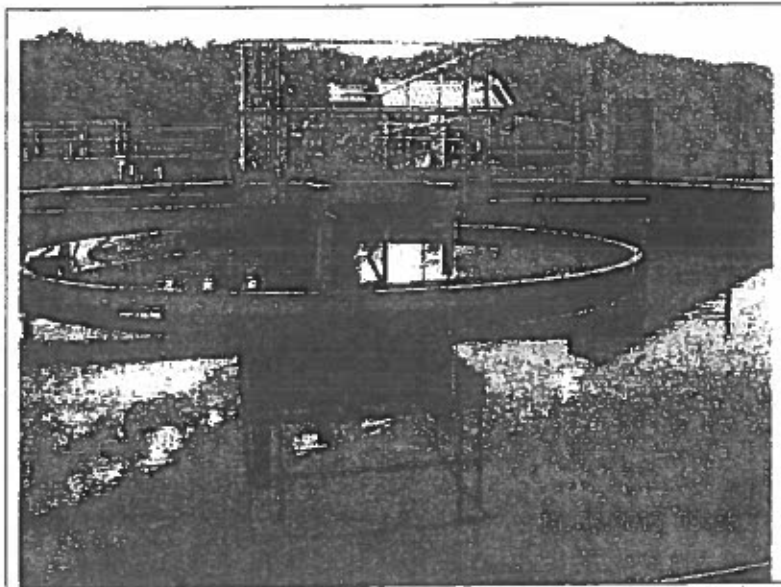
Photograph 7

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: SE

Comments: Oxidation ditch with discharge structure



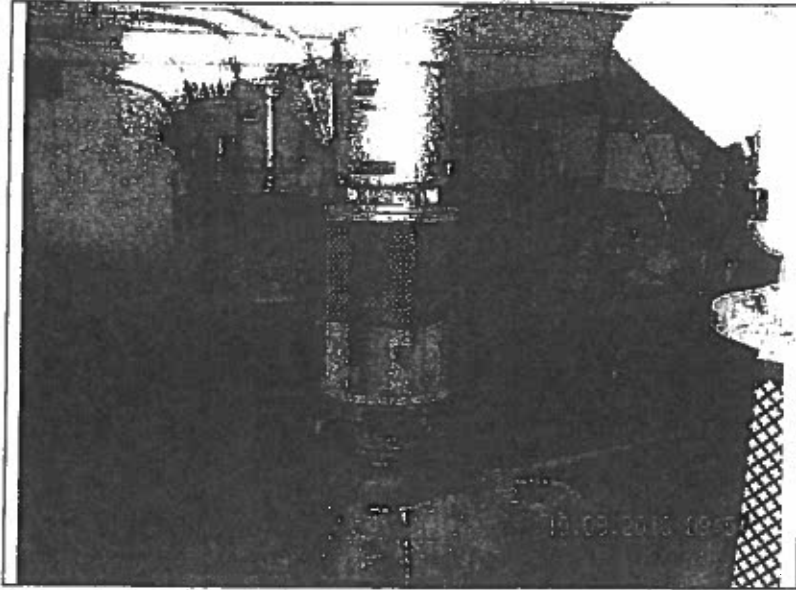
Photograph 8

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

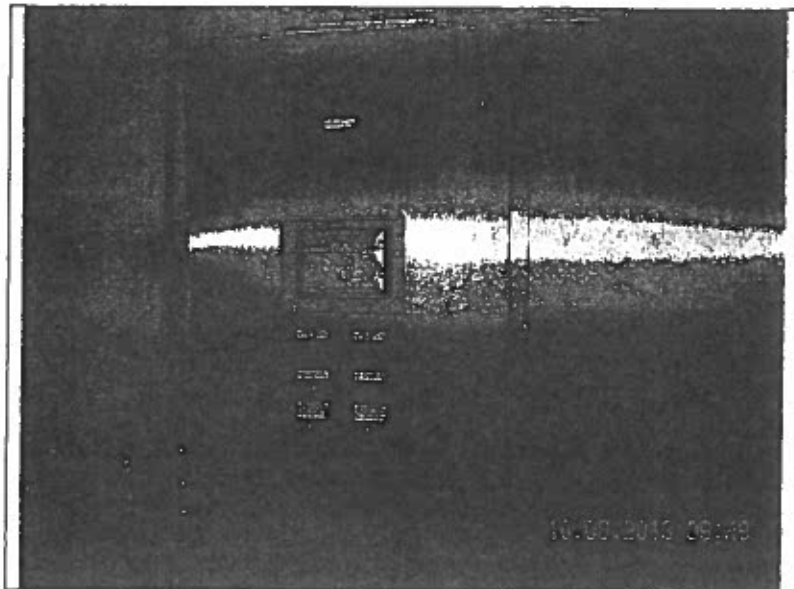
Direction of View: SE

Comments: Final clarifier



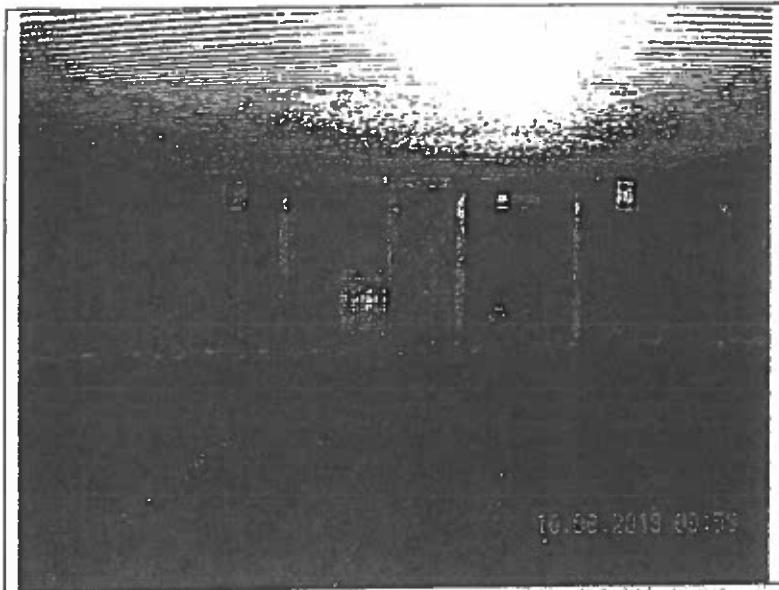
Photograph 9

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1
Photographer: Gregory S. Perkins, P.E.
Direction of View: NE
Comments: Return/Waste activated sludge pumps



Photograph 10

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1
Photographer: Gregory S. Perkins, P.E.
Direction of View: W
Comments: Ultraviolet disinfection system control panel



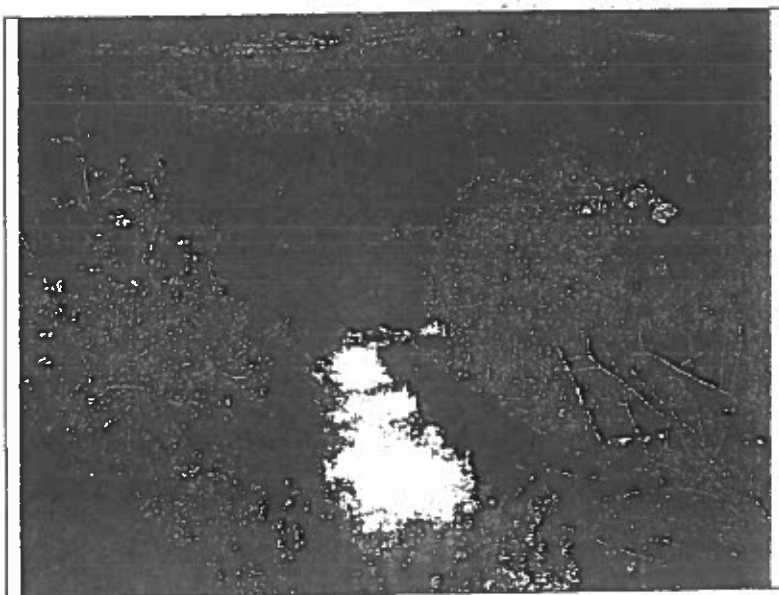
Photograph 11

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: E

Comments: Ultraviolet disinfection system channels



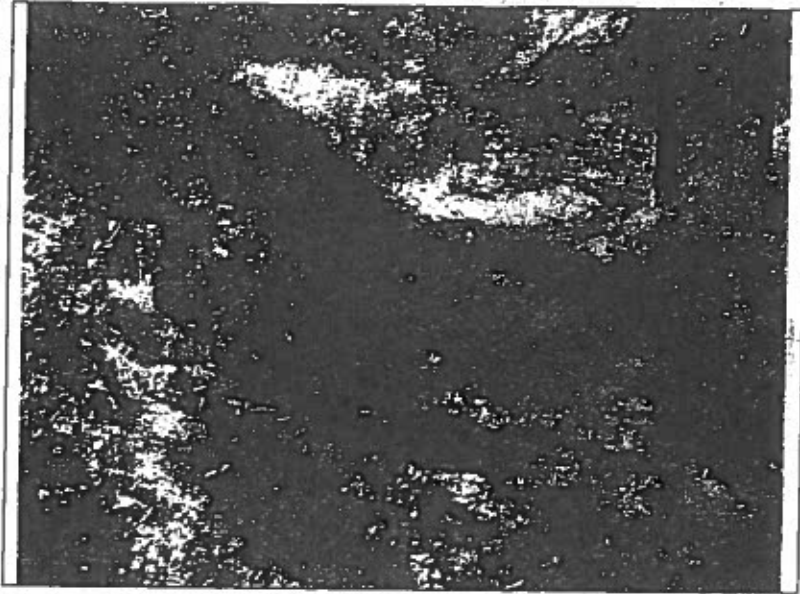
Photograph 12

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: W

Comments: Reaeration steps



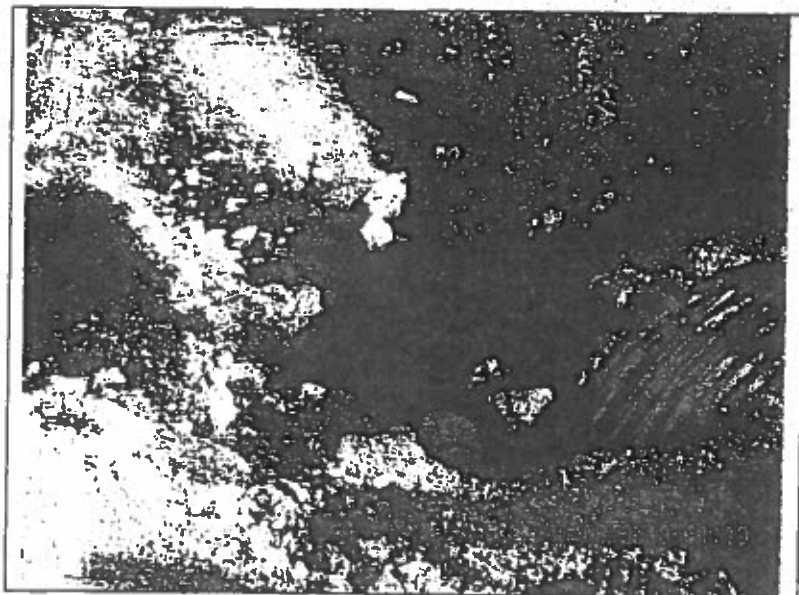
Photograph 13

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: SW

Comments: Receiving stream above the discharge.



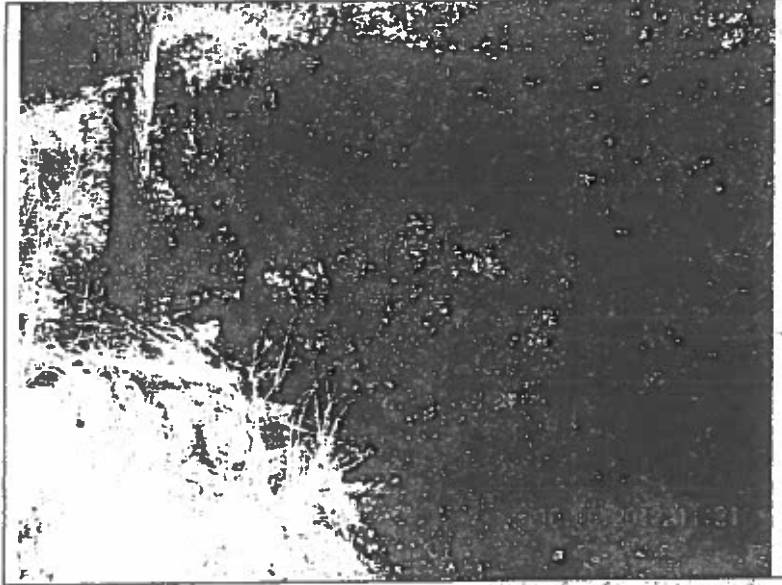
Photograph 14

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: NE

Comments: Point of discharge to the receiving stream



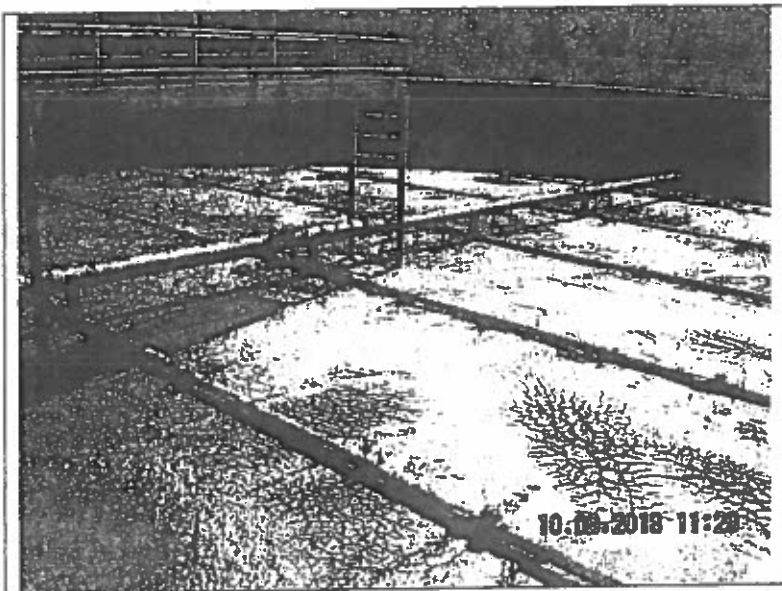
Photograph 15

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: NE

Comments: Receiving stream below the discharge, no impact noted.



Photograph 16

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: NE

Comments: Aerated sludge holding basin



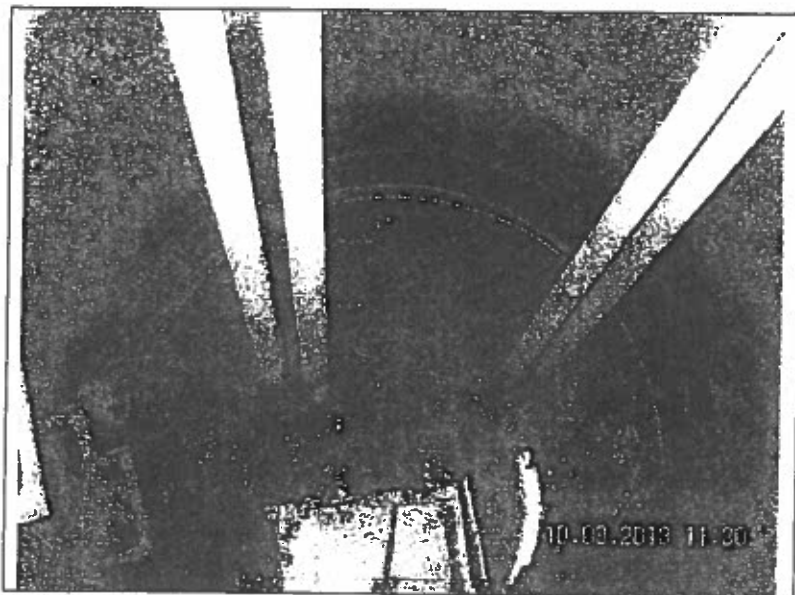
Photograph 17

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: SE

Comments: Sludge holding basin



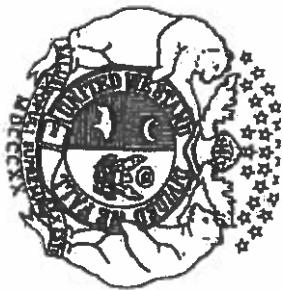
Photograph 18

Location: City of Lake of the Ozarks Regional Wastewater Treatment Facility #1

Photographer: Gregory S. Perkins, P.E.

Direction of View: N

Comments: Sludge supernatant lift station



Missouri Department of Natural Resources
Environmental Services Program

ORMS/DBD

Order ID 141003002

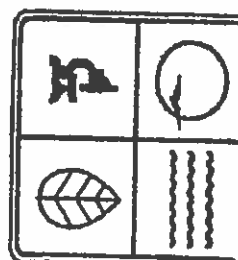
Program, Contact: WPC

Britnie Brauner
10/28/14

Report Date: 11/06/2014

LDPR/JobCode: FECMP

DA1A1303R



Sample: AC37752

Facility ID: MO0103241
County: Miller

Site: Lake of the Ozark Regional WWTP#1
Sample Reference ID:

Customer #: 1411547

Collector: BRANDON BAUMHOER

Affiliation: ESP

Collect Date: 10/2/2014 9:40:00AM

UTM-Easting 535317E
Northing 4226210N

Sample Comment: Composite
Precision

Test	Parameter	Result	Qualifier	Units	Method
200.8 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	EPA 200.8
Ammonia as N	Ammonia as N	0.054		mg/L	L 10-107-06-1-J
Biochemical Oxygen Demand	Biochemical Oxygen Demand	2.06		mg/L	SM 5210-B
Total Suspended Solids (TSS) / NFR	Total Suspended Solids (TSS) / NFR	<5	ND	mg/L	SM 2540-D

Sample: AC37753

Facility ID: MO0103241
County: Miller

Site: Lake of the Ozark Regional WWTP#1
Sample Reference ID:

Customer #: 1411550

Collector: BRANDON BAUMHOER

Affiliation: ESP

Collect Date: 10/2/2014 9:42:00AM

Sample Comment: Grab

Test	Parameter	Result	Qualifier	Units	Method
E. coli - IDEXX	E. coli - IDEXX	3.1		mpn/100ml	SM 9223B
Field pH	Field pH	7.88		pH Units	EPA 150.1
Field Temperature	Field Temperature	22.0 C			EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	1664B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S. Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

- | | |
|--|---|
| 01 Improper collection method | 02 Improper preservation |
| 03 Exceeded holding time | 04 Analyzed by Contract Laboratory |
| 05 Estimated value, detected below PQL | 06 Estimated value, QC data outside limits |
| 07 Estimated value, analyte outside calibration range | 08 Analyte present in blank at > 1/2 reported value |
| 09 Sample was diluted during analysis | 10 Laboratory error |
| 11 Estimated value, matrix interference | 12 Insufficient quantity |
| 13 Estimated value, true result is >= reported value | 14 Estimated value, non-homogeneous sample |
| 15 No Result - Failed Quality Controls Requirements | 16 Not analyzed - related analyte not detected |
| 17 Results in dry weight | 18 Sample pH is outside the acceptable range |
| 19 Estimated value | 20 Not analyzed - Instrument failure |
| 21 No result - spectral interference | 22 pH was performed at the Laboratory |
| 23 Contract Lab specific qualifier - see sample comments | 24 No result - matrix interference |
| 25 No Result: Excessive Chlorination | 26 No Result: Excessive Dechlorination |
| 27 Sample temperature outside acceptable range | 28 Headspace (air bubbles) present in sample vial |
| 29 Estimated value, QC data biased low | 30 Estimated value, QC data biased high |
| ND Not detected at reported value | |



Facility Name	Facility Name
Permit Number	MO-
County	County

This report covers the period of:

Jan 1, 20__ to Dec 31, 20__

Page 1 of 2

ANNUAL INFLOW AND INFILTRATION REPORT

The report shall be submitted by January 28th of each year by electronic DMR or to the
SOUTHWEST REGIONAL OFFICE, 2040 W. WOODLAND, SPRINGFIELD, MO 65807

Manhole Observation

Number of Manholes Observed						
Dates Observed						

Results - Manholes Replaced

Number of Manholes Replaced						
Types of Manholes Replaced						
Dates of Replacement						

Results - Manholes Rehabbed

Number of Manholes Rehabbed						
Types of Manholes Rehabbed						
Dates of Rehabilitation						

Smoke Testing

Linear Feet of Lines Tested						
Dates Observed						

Results - Lines Cleaned

Linear Feet of Lines Cleaned						
Date and Method Used to Clean Lines (Jet, Pig, Auger)						



Facility Name	Facility Name
Permit Number	MO-
County	County

This report covers the period of:

Jan 1, 20__ to Dec 31, 20__

Page 2 of 2

ANNUAL INFLOW AND INFILTRATION REPORT

Smoke Testing (continued) - Results - Lines Replaced

Linear Feet of Lines Replaced	
Date, Type of Line Replaced and Type of New Line	

Results - Lines Rehabbed

Linear Feet of Lines Rehabbed	
Date, Type of Line Replaced and Rehab Material	

CCTV (Closed-circuit television)

Linear Feet Viewed	
Dates Observed	

Lamphole Observation

Number Observed	
Dates Observed	

Results - Lampholes Replaced

Number Replaced	
Dates Replaced	

Sanitary Sewer Overflows

Number of Dry Weather Sanitary Sewer Overflows		Number of Wet Weather Sanitary Sewer Overflows	
Basement/Building Backups			
Number of Dry Weather Basement/Building Backups		Number of Wet Weather Basement/Building Backups	

General Information

Miles of collection system (including forcemains)		Peak Effluent Flow Rate (MGD)	
Average Effluent Flow Rate (MGD)			

SIGNATURE AND TITLE OF AUTHORIZED INDIVIDUAL, IN ACCORDANCE WITH 10 CSR 20-6.010(2)(C) DATE

PHONE NUMBER

E-MAIL ADDRESS (Optional)



January 20, 2015

Department of Natural Resources
Southwest Regional Office
2040 West Woodland
Springfield, MO 65807

RE: Inspection Report Dated December 31, 2014 for the Lake of the Ozarks Regional
WWTP #1, MO-0103241

Dear Mr. Kevin Hess:

This is in response to the inspection report dated December 31st, 2014.

1. We were using the pH buffer 7 for our daily third check of the pH meter, but have since the inspection started using an 8 buffer for our daily check. Like I told Greg Perkins during the inspection we do use a certified QAQC standard from NSI Lab Solutions for our monthly quality control check in duplicate analysis.
2. We were taking modified composite samples but have since started using 24 hour composite samplers on the Effluent and combined Influent flows. The City of Lake Ozark works off float systems for their lift stations only sending us flow at intermittent times throughout the day or 24 hour period. We have been concerned that we were not getting a true representative samples throughout the 24 hour period due to both being combined to make up the Influent sample, so we contacted the permit writing section of MDNR in Jefferson City on 5/15/14 and was told that there was a revised version of standard conditions (dated May 1, 2013) concerning this and we went on line with them on the phone and was told we could use it in this case.
3. We were using our own math calculations to see if we were within the acceptable limits set within the Certificate of Analysis for the NSI Lab Solutions QAQC standards that we use. We have since the inspection created and started using a formula sheet that is exactly like the percent recovery calculations in the Standard Methods for the Examination of Water and Wastewater, 21st Edition. We also contacted the MDNR State Laboratory in Jefferson City on 1/8/15 and spoke to the chemist and were told that we should stop distilling our Ammonia QAQC and run everything with the ISE direct read probe method. He said we should see better % recovery results doing so.
4. On the inspection report the 22nd Ed. Std. Methods was used as a reference, but didn't think it was approved yet? In the 21st Ed. in section 9020B.9b which was quoted in the inspection report as the 22nd Ed. states; Other water types – Verify by performing the completed MTF Test on 10% of samples positive through the

confirmed stage. The m-ColiBlue24 broth that we use requires no confirmation step. In 9020B.8a3) it states Control cultures-For each lot of medium check analytical procedure by testing with known positive and negative control cultures for the organism(s) under test and it gives examples of test cultures, but doesn't say that you have to use certified reference cultures like the 22nd Ed. does. We run Influent samples in duplicate analysis for the known positive control and blanks for the known negative control every week with duplicate analyses on everything monthly. The Influent has always shown growth and the blank none. We also run the required annual EPA DMRQA study on all parameters and have never failed any including E.coli since I have been here. We will start running a purchased certified positive and negative culture with each new batch of m-ColiBlue24 broth purchased starting with this year's disinfection season.

Also in the report it was mentioned that on Larry Bailey's fields 33 & 35, we exceeded the two dry tons of biosolids per acre, which was incorrect for field 33, we only spread .97 dry ton per acre. We did report the PAN on the biosolids that were applied, but failed to soil sample it in 2013. We did soil sample it in 2014 and the results came in with a 160 pound per acre nitrogen requirement on all three of his fields. We will watch our application rates a lot closer in the future and stay under the 2 ton per acre requirement and also start putting the crops expected and removed from all fields on the Form S biosolids report.

Both the Cities of Lake Ozark and Osage Beach have been made aware of the recommended I & I report that was mentioned in the inspection report. Each City will respond accordingly with a report semi-annually in April & October as recommended in the MSOP Special Conditions 8 that will be included with the e-DMR those months.

If you have any questions please feel free to contact Gary Hutchcraft, at (573) 365-0455 or via mail at Alliance Water Resources, Inc., P.O. Box 1985, Lake Ozark, MO 65049.

Sincerely,

Gary Hutchcraft, Local Manager
Alliance Water Resources, Inc.

cc: Joint Sewer Board
Gary Johnson, Alliance Water Resources
Mr. Greg S. Perkins P.E.

Alliance Water Resources, Inc

To: Joint Sewer Board
From: Gary Hutchcraft
CC: Gary Johnson
Date: 1/20/2015
Re: Lab Records

Comments: As we mentioned at the last board meeting, we would like to destroy all lab records that were over 5 years old, due to the EPA recommending doing so. The Joint Sewer Board requested a list of items that would be destroyed. All the records are from 1990 to 2008.

The records consist of past:
Monthly Joint Sewer Board reports
Monthly MDNR DMR's
In-house lab daily records & bench sheets
Contract lab testing data
Flow chart recorders
Sludge application records
Annual sludge reports

