

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
DECEMBER 17, 2019 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Gerry Murawski
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Lake Ozark, Judy Neels
Alderman, Osage Beach, Greg Massey
Public Works Director, Osage Beach,
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

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4. REPORTS

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Check Registers & Bank Statements	23-26
November Alliance Report of Operations	27-43
Approval of Flow Charts November 2019	

5. OLD BUSINESS

- A. Board Representative update
- B. Discussion and possible action on the Flygt lift station pump replacement
- C. Discussion and possible action on Lumix extension of contract

6. NEW BUSINESS

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

**THE NEXT MEETING WILL BE JANUARY 21, 2020 4:00 PM @ LAKE OZARK
CITY HALL**

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – November 19, 2019

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, November 19, 2019 at Lake Ozark City Hall

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Greg Massey - Absent
Alderman Lake Ozark, Judy Neels- Absent
Public Works Director Lake Ozark, Matt Michalik – Absent
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Administrator Van Dee motioned to approve the meeting minutes of October 15, 2019 his motion was seconded by Administrator Woods, and passed unanimously.

REPORTS:

The October Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Resident Member Hamner to approve the documents, and pay the bills. His motion was seconded by Administrator Woods, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for October was 1.683 mgd. We had 11.1 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.5 mg/l and TSS of 1.8 mg/l respectively for October, which represents a 98.8% or better removal.

The MLSS average for both aeration basins was 4518 mg/l. The total dry weight sludge inventory for October totaled 259,414 pounds. There were 50 tanker loads or 185,000 gallons of bio solids land applied in October. There were 40 tanker loads or 97,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Administrator Woods to approve the Flow Chart for October. Her motion was seconded by Administrator Van Dee. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Gary Hutchcraft advised the generator should be wired within the next 2 weeks.
- B. After doing a brief overview of the 2020 budget and no questions from the board, a motion was then made by Resident Member Hamner to approve the 2020 Budget. His motion was seconded by Administrator Van Dee and was then unanimously approved.

NEW BUSINESS:

- A. Brief discussion was made about paying December bills. Mayor Olivarri suggested having a meeting in December and looking over the bills then. The board agreed and there will be a meeting on December 17, 2019 at 4:00 pm
- B. Per Gary Hutchcraft they advertised for bids for the RAS/WAS MCC replacement project. There were 4 bid packages emailed to ECCO, Enviro Line Co, Lumix Electrical, and Catalyst Electric. ECCO did not give a bid. Enviro Line Co gave bid of \$48,068 with a 2 yr. warranty. Lumix Electrical gave a bid of \$37,415 with a 1 yr. warranty and Catalyst Electric gave a bid for \$49,625 with a 1 yr. warranty. Lumix was within budget and has submitted bonds. Gary would like the approval from the board to go with Lumix Electrical. A motion was made to go with Lumix Electrical for \$37,415 by Administrator Van Dee, his motion was seconded by Mayor Murawski and was then unanimously approved.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:26 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
DECEMBER 17, 2019

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	393.47
OPERATING FUND BILLS TO BE PAID:	\$	91,523.44
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	14,914.00
TOTAL	\$	106,830.91

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	191	Menards	Insulation Board	\$ 15.95
4020	192	Dam Steel & Supply	Hose Holder	\$ 62.93
4150	193	Roemer's Heavy Equip	Service Call 2000 GMC Sludge	\$ 314.59
				\$ -
			TOTAL	\$ 393.47

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	194	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4020	195	Consolidated Electric Dist.	Breaker for Pista Grit System	\$ 35.54
4020	196	Grainger	Relays for Pista Grit System	\$ 157.14
4020	197	MC - Amazon	Carburator for 3" Trash Pump	\$ 21.59
4020				\$ -
4020	198	Jani King	December	\$ 195.00
4020	199	Lakeland Oil Co.	Diesel for Generator	\$ 1,610.46
4020	200	Menards	Cleaner, scour pads, u bolt	\$ 26.82
4020	200	Menards	Seal	\$ 2.96
4170	201	Alliance Water Resources, Inc.	December	\$ 24,966.00
4175	202	Ameren MO	11673321	\$ 163.30
4175	202	Ameren MO	98041275	\$ 3,227.15
4176	203	AT&T	December	\$ 92.39
4176	204	Republic	December	\$ 154.09
4240	205	Martin Energy Group Services, LLC		\$ 57,404.00
4050				\$ -
			TOTAL	\$ 91,523.44

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
				\$ -
			TOTAL	\$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	1039	Flynn Drilling Co	Well pump, piping & controls	\$ 11,981.00
4000	1040	Catalyst Electric	Replace underground wiring	\$ 2,470.00
4000	1040	Catalyst Electric	Replace Heater & Disconnect	\$ 463.00
			TOTAL	\$ 14,914.00

YOUR SALES NO.	GALLONS READING START
PREVIOUS SALES NO.	GALLONS READING FINISH
YOUR SALES NO.	GALLONS READING START
PREVIOUS SALES NO.	GALLONS READING FINISH

LAKELAND OIL COMPANY, LLC INVOICE / DELIVERY NO.
 (573) 346-4545 • FAX (573) 346-3566
 BOX 130, OSAGE BEACH, MO 65065
 EMERGENCY CONTACT # (573) 634-2436

NO. 84638

DATE: 12/2/2019 P.O. NO.

SOLD TO: JOINT SEWER BOD.
 ADDRESS: PLANT GENERATOR FILL-UP

PRODUCT	GALS	UNITS	TOTAL
#2 RD W/ANTIB	700.2	2.300	1610.46
FEDERAL GAS TAX			
FEDERAL #2 TAX			
STATE GAS TAX			
STATE #2 TAX			
CITY & MO SALES TAX			

INVOICE AMOUNT:

LESS CREDITS OR PLUS CHARGES:

NET BALANCE DUE: \$ 1610.46

All past due Accounts subject to 1.5% per month or 18% per year compound charge.

RECEIVED GOODS: X Gary Hutchinson

☐ THE UNDERSIGNED, as agent for LAKELAND OIL, the seller, hereby certifies that the purchaser of the motor fuel involved at the time of purchase expressly declared it as his intention to use such motor fuel for a purpose other than propelling motor vehicles upon the public highways of this state, and declared his intention to file a claim for refund of the tax included in the purchase price.

☐ Gasoline: This product does not meet the requirements for reformulated gasoline and may not be used in any reformulated gasoline covered area.

☐ ULS Kerosene: 15-ppm sulfur max. Does not contain visible evidence of dye.

☐ 15-ppm Sulfur ULSD: Does not contain visible evidence of dye.

☒ 15-ppm Sulfur Dye ULSD: Non-road or tax exempt use only. Penalty for taxable use.

Agent for Seller: X John Turner X Received Payment:

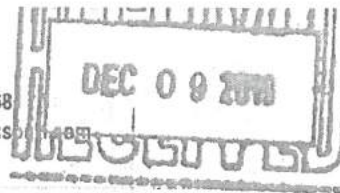


DIESEL FOR NEW
 BACKUP GENERATOR

GL Acct#: 4020
 Signature: Gary Hutchinson
 Date: 12/2/19



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736



FOCUSED ENERGY. For life.

Account Number 4580005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD, -
LAKE OZARK, MO 65049

Current Detail for Statement 12/09/2019

Total Electric Charges \$3,227.15

Total Amount Due \$3,227.15



Stay informed about your energy usage anytime. Go to AmerenMissouri.com and create an account. It's simple and free!

AMOUNT DUE \$3,227.15

Due Date 01/02/2020

Amount After Due Date \$3,275.58

Previous Statement \$10,833.28

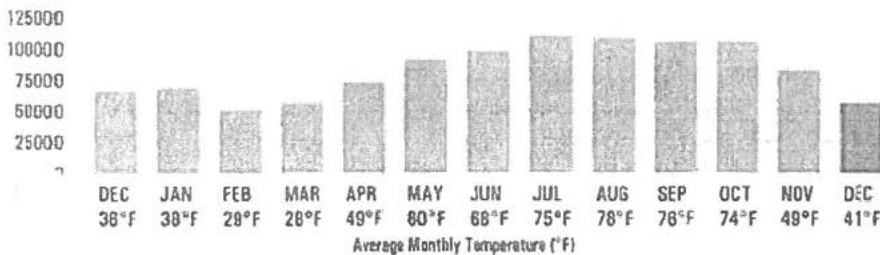
Total Payments \$4,823.64

Payment Received Thank You.

\$5,920.83 transferred from 5580005820 at 3 ANDERSON RD.

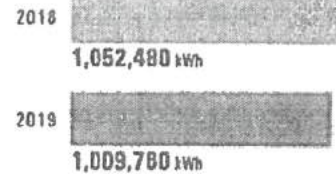
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 4.1% less than last year.



Usage from Jan-Dec for 2018 & 2019

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

» See next page for service details.

Keep this part on for your records.

Please return this portion with your payment.

CL Acct#:

4175

Signature:

12/9/19

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☐ Check if you have address changes on back.

Amount Due	Due Date
\$3,227.15	January 02, 2020
Delinquent Amount After Due Date	Account Number
\$3,275.58	4580005832

Amount Enclosed \$

>000160 6234142 0002 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

60600000 0045800058302 000003227150 000003227150



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For Life

Electric Service Details Service from 11/04/2019 - 12/05/2019 (31 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	11/04 - 12/05	31	Total kWh	Actual	56990.0000	56836.0000	354.0000	160.0000	56840.0000
11673321	11/04 - 12/05	31	Peak kW	Actual	0.7410	0.0000	0.7410	160.0000	118.6000

Usage Summary

Total kWh	56840.0000	Peak kW	118.6000
Total Billing Demand	118.6000	October Winter Base kW	216.5000
Winter Base Demand	118.6000	Base kWh Ratio	1.0000
Base kWh (HUD)	56840.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	\$ 0.03890000	\$0.00
Demand Charge	118.60	kW	@	\$ 2.00000000	\$237.20
Base Energy Charge / Hours Used	17,790.00	kWh	@	\$ 0.06650000	\$1,183.04
Base Energy Charge / Hours Used	23,720.00	kWh	@	\$ 0.04940000	\$1,171.77
Base Energy Charge / Hours Used	15,130.00	kWh	@	\$ 0.03890000	\$588.56
Customer Charge					\$95.07
Fuel Adjustment Charge	56,640.00	kWh	@	\$-0.00136000	\$-77.03
Energy Efficiency Program Charge	56,640.00	kWh	@	\$ 0.00020000	\$11.33
Energy Efficiency Investment Charge	56,640.00	kWh	@	\$ 0.00482400	\$278.89
Federal Tax Rate Reduction	56,640.00	kWh	@	\$-0.00462000	\$-261.68
Total Service Amount					\$3,227.15
Total Electric Charges					\$3,227.15

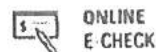
Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com.

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Address Changes or Corrections

Name _____
 Address _____
 City, State, Zip _____
 Phone Number _____

AmerenMissouri.com/WaysToPay



ONLINE
E-CHECK



PHONE
866.268.3729



IN PERSON
FIND A PAY STATION AT
AMERENMISSOURI.COM/
PAYSTATION



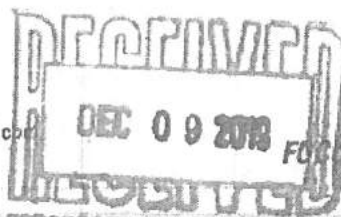
ONLINE
CREDIT CARD



MAIL
STUB & CHECK



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736



FOR USED ENERGY. For life.

Account Number 5580005920
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

Current Detail for Statement 12/09/2019

Total Electric Charges \$163.30

Total Amount Due \$163.30

AMOUNT DUE \$163.30

Due Date 01/02/2020

Amount After Due Date \$165.75

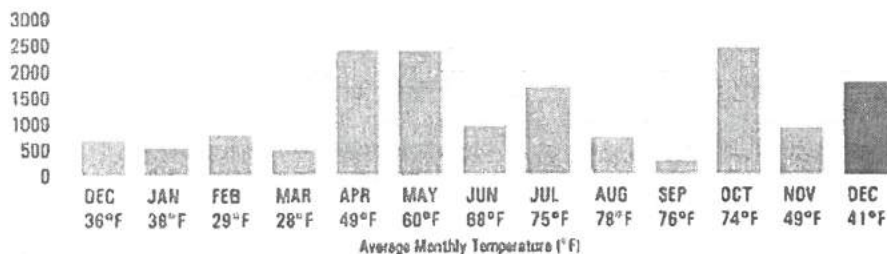
Previous Statement \$0.00

Total Payments \$96.00

Payment Received. Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Average Monthly Temperature (°F)

Electric Usage Summary (kWh)

So far this year, you're using 17.4% less than last year.

2018 18,450 kWh

2019 15,240 kWh

Usage from Jan-Dec for 2018 & 2019

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

CL Acct#:

4175

Signature:

[Handwritten Signature]

Date:

12/9/19

» See next page for service details.

Keep this portion for your records.

Page 1 of 4



☐ Check if you have address changes on back.

Please return this portion with your payment.

Amount Due	Due Date
\$163.30	January 02, 2020
Delinquent Amount After Due Date	Account Number
\$165.75	5580005920

Amount Enclosed \$

>000086 6234142 0002 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

50633000 0055800059200 000000163300 000000163300



- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

Electric Service Details Service from 11/04/2019 - 12/05/2019 (31 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	11/04 - 12/05	31	Total kWh	Actual	19601.0000	19424.0000	177.0000	10.0000	1770.0000
98041275	11/04 - 12/05	31	Peak kW	Actual	4.2820	0.0000	4.2820	10.0000	42.8200

Usage Summary

Total kWh	1770.0000	Winter Base kWh	1680.0000
Current Base kWh	1680.0000	Seasonal kWh	90.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	1,680.00	kWh	@ \$ 0.08360000	\$140.45
Seasonal Energy Charge	90.00	kWh	@ \$ 0.04820000	\$4.34
Customer Charge				\$21.43
Fuel Adjustment Charge	1,770.00	kWh	@ \$-0.00136000	\$-2.41
Energy Efficiency Program Charge	1,770.00	kWh	@ \$ 0.00010000	\$0.18
Energy Efficiency Investment Charge	1,770.00	kWh	@ \$ 0.00542000	\$9.59
Federal Tax Rate Reduction	1,770.00	kWh	@ \$-0.00581000	\$-10.28
Total Service Amount				\$163.30
Total Electric Charges				\$163.30

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
November 26, 2019	\$96.00

Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com

Page 2 of 4

Address Changes or Corrections

Name _____
 Address _____
 City, State, Zip _____
 Phone Number _____

AmerenMissouri.com/WaysToPay

	ONLINE E-CHECK		PHONE 866.268.3729		IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION
	ONLINE CREDIT CARD		MAIL STUB & CHECK		

Invoice



Martin Energy Group Services LLC
PO BOX 729
Tipton, MO 65081
660-458-7000

Invoice Number: 0182446-IN

Invoice Date: 11/20/2019

Invoice Due Date: 11/20/2019

Order Number:

Order Date

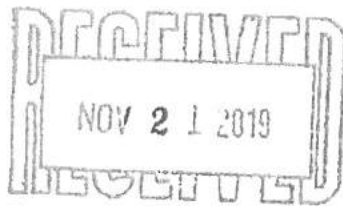
Salesperson: Mike Massolini

Customer Number: JOISEW01

Sold To:

Joint Sewer Board
Lake of the Ozarks
Regional WWTP #1
PO Box 1985
Lake Ozark, MO 65049 United States

Confirm To:



Ship To:

Lake of the Ozarks
Regional WWTP #1
#3 Anderson Rd.
Lake Ozark, MO 65049 United States

Customer P.O.	Ship VIA	F.O.B.	Terms See Below			
Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
RETAINAGE	EA	1.00	1.00	0.00	57,404.0000	57,404.00
40% Retainage Due upon project completion. Retainage for one 450 kWE Standby Diesel Generator						

FINAL PAYMENT @ STARTUP

GL Acct#: 4240
Signature: [Signature]
Date: 11/20/19

Please Remit Payment To:

Martin Energy Group Services LLC
PO BOX 729
Tipton, MO 65081

Sale in accordance with Martin Energy Group Services, LLC Conditions of Sale.
1.5% per month Finance Charges may apply on overdue invoices.

Net Invoice: 57,404.00
Less Discount: 0.00
Freight: 0.00
Sales Tax: 0.00
Invoice Total: (USD) 57,404.00



P.O. Box 265
Troy MO 63379

6365286137
www.flynnndrilling.com

Invoice

Date	Invoice #
12/5/2019	16627

Bill To

Joint Sewer Board
P.O. Box 1985
Lake Ozark, Mo 65049

Service Location

☐ Please check box if address is incorrect or has changed, and indicate change(s) above

Balance Due	\$11,981.00
--------------------	--------------------

Flynn Drilling Company

Troy MO 63379
PO Box 265

PLEASE PRINT NAME AND ADDRESS FOR PORTION WITH YOUR REMITTANCE

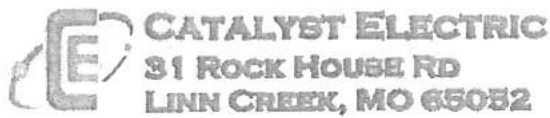
Telephone #	P O No	Project	Rep
			GD

Description	Qty	Rate	Amount
Total Due per Agreement	1	11,981.00	11,981.00
Replacement of potable well pump, piping & controls complete per contract agreement			
GL Acct#/: <u>E/R</u> Signature: <u>[Signature]</u> Date: <u>12/9/19</u>			

Payment is due upon receipt. Accounts not paid within 30 days of the date of the invoice are subject to a 18% APR Finance Charge.

Credit card payments are subject to a 2% convenience fee.

Subtotal	\$11,981.00
Sales Tax (8.975%)	\$0.00
Total	\$11,981.00
Payments/Credits	\$0.00
Balance Due	\$11,981.00



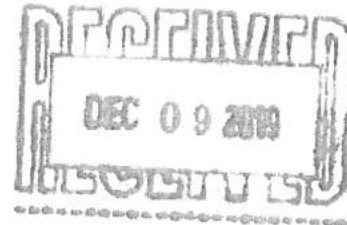
CATALYST ELECTRIC
31 ROCK HOUSE RD
LINN CREEK, MO 65052

Invoice

Date	Invoice #
11/25/2019	10738

Bill To

Joint Sewer Board
 55 Anderson Road
 Lake Ozark, MO



P.O. No.	Terms	Project
	Net 30	Lighting repair

Quantity	Description	Amount	Rate
	--Invoice for completed work according to Estimate #5416-- Bid is for lighting repair at WWTP #1 in Lake Ozark, MO. Bid includes labor and material to complete the following scope of work. - Trenching from manhole to pole - Run new conduit in trench to pole without power - Penetrate underground manhole - Backfill to rough final grade - Pull new wire to pole, tie into existing circuit - Tie in lighting system - Pull wire to pole that does not have any wire to it- bid assumes conduit does not have blockage - Install vaporproof LED light for building sign, use existing power Does not include: - Initial troubleshooting charges- see below - Dressing up, or seeding grass - Any other scope of work not listed above	1,960.00	1,960.00
4	Electricians - Lucas and Joven Date: 09 11 2019 - Troubleshot circuit for parking lights - Bad connections somewhere in the feed circuit.	240.00	60.00

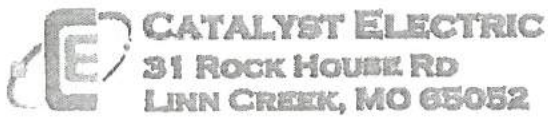
Thank you for your business!

Total

Payments/Credits

Balance Due

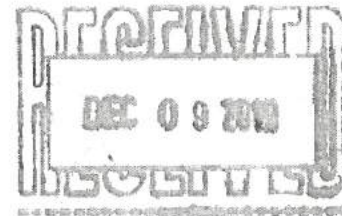
Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com



Invoice

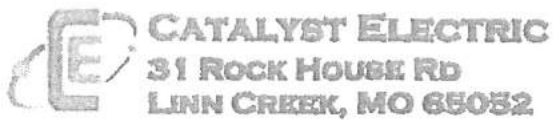
Date	Invoice #
11/25/2019	10738

Bill To
Joint Sewer Board #3 Anderson Road Lake Ozark, MO



		P.O. No.	Terms	Project
			Net 30	Lighting repair
Quantity	Description	Amount	Rate	
4.5	Electricians: Lucas and Seth Date: 09/17/2019 - Searched for bad junction in lighting circuit. - Found a bad connections and a junction box buried deep in the ground- not accessible - Came up with plan to get lighting up and going <i>FOR RELOCATING PARKING LOT LIGHTING WIRING FROM BAD CONNECTIONS IN UNDERGROUND JUNCTION BOX</i> GL Acct#/: <u>E/R</u> Signature: <u>[Signature]</u> Date: <u>12/9/19</u>	270.00	60.00	
Thank you for your business!		Total	\$2,470.00	
		Payments/Credits	\$0.00	
		Balance Due	\$2,470.00	

Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com

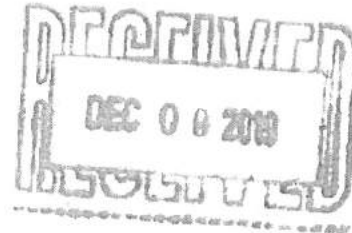


Invoice

Date	Invoice #
10/21/2019	10607

Bill To

Joint Sewer Board
#3 Anderson Road
Lake Ozark, MO



		P.O. No.	Terms	Project
			Net 30	Heater
Quantity	Description	Amount	Rate	
	Bid is for installation of disconnect for heater in RAS room. Bid includes labor and material to complete the following scope of work: - Remove existing 480 disconnect - Installation of new Siemens 30 amp rated knife style disconnect - Test out heater Does not include: - Heater or installation of heater - Any other work	173.00	173.00	
1.5	Electrician: Lucas-Installation of 5kw Heater. Not included in base bid. Date: 09/11/2019 5kw Three phase heater- Dimplex UTH05B74C1	90.00	60.00	
	REPLACEMENT HEATER + DISCONNECT IN RAS PIPING / VALVE ROOM IN HEADWORKS BLDG. GL Accel#: <u>E/R</u> Signature: <u>[Signature]</u> Date: <u>12/9/19</u>	200.00	200.00	
Thank you for your business!		Total	\$ 163.00	
		Payments/Credits	\$0.00	
		Balance Due	\$ 163.00	

Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com

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

		11/30/2019					Percent YTD
Account Number	Account Name	2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 11/30/2019	2019 November Revenue	
3020	Osage Beach	478,614.41	480,784.67	478,500.00	435,579.31	39,689.97	91%
3010	Lake Ozark	71,385.58	69,215.30	71,500.00	68,587.35	6,143.37	96%
3030	Misc.	0.00	1,485.00	0.00	0.00	0.00	
3100	Interest	781.57	1,484.82	400.00	4,092.11	2,173.91	1023%
3060	Waste Haulers' Fee	30,500.00	25,780.00	30,000.00	24,980.00	1,440.00	83%
Total Operating Fund		581,281.56	578,749.79	580,400.00	533,238.77	49,447.25	92%
E/R Fund Income		2,319.07	4,281.74	3,000.00	5,250.21	107.54	175%
TOTAL INCOME		583,600.63	583,031.53	583,400.00	538,488.98	49,554.79	92%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
11/30/2019

Account Number	Account Name	2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 11/30/2019	2019 November Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.17	41,604.00	38,137.00	3,467.00	92%
4020	*Maintenance & Repair	129,789.11	9,713.86	122,000.00	101,842.10	9,642.27	83%
4140	Insurance	17,144.00	18,475.25	19,030.25	18,761.00	0.00	99%
4150	Vehicle Repair/Maint	12,047.61	3,887.47	8,000.00	5,479.60	1,282.37	68%
4160	Haulers Fees to Contract	8,000.00	8,000.00	0.00	0.00	0.00	
4170	Contract Management	311,229.84	319,010.64	299,592.00	274,626.00	24,966.00	92%
4175	Electric	69,261.90	79,533.37	80,000.00	69,886.42	4,919.64	87%
4176	Utilities Misc.	0.00	0.00	5,000.00	3,471.04	247.90	69%
4190	Bank Charges	24.35	24.00	60.00	165.00	102.20	0%
4200	Audit	2,200.00	2,300.00	2,400.00	2,400.00	0.00	100%
4220	Professional Service	1,200.00	0.00	0.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	152,000.00	87,843.00	1,737.00	58%
	Totals	592,500.98	482,548.76	729,686.25	602,611.16	46,364.38	83%
	**E/R Expenses	7,554.68	42,782.61	96,500.00	24,343.51	4,227.51	25%
	TOTAL EXPENSES	600,055.66	525,331.37	826,186.25	626,954.67	50,591.89	76%

****Equipment & Replacement**

Rebuild Ducking Skimmer Arm	5,000.00	
Replace BOD & Ammonia probes	2,000.00	X
Replace grit concentrator, volute & cart for piston	15,000.00	X
Replace wooden doors	2,000.00	
Replace impellers for RAS pumps	7,500.00	X
Replace LED parking lot light	10,000.00	X
Replace electric panel & pump	15,000.00	2019
Replace electric panel in RAS	40,000.00	2019
	96,500.00	

***Maintenance & Repair**

Auto Dialer Yrly Maint. Fee	500.00
Effluent Testing for Permit Renewal	1,500.00
Normal Maintenance	8,000.00
UV Spare Parts	8,000.00
Road and parking lot main	4,000.00
#2 Aeration Basin repair valves lab testing	100,000.00
Sandblast & paint Clarifier #3	-
CARRYOVER 2018 \$68,900	-
	122,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
11/30/2019

Beginning Balance	301,864.37
Income - Osage Beach	39,851.30
Income - Lake Ozark	5,982.03
Income - Other	-
Income - Waste Haulers' Fees	1,440.00
Interest - Checking	13.18
Income - CD Interest	2,160.73
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(42,897.38)
Ending Fund Balance	304,947.23
Central Bank - NOW Acct.	102,322.31
	-
CD First Bank of the Lake, 2/20/21 #101318432	103,807.68
CD Central Bank, 1/20 #151763	100,000.00
	-
Outstanding Checks:	(1,182.76)
	304,947.23

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
11/30/2019

Beginning Balance	545,550.41
Interest - Checking	107.54
Income - CD Interest	1,942.14
Transfers to E/R Fund	3,467.00
Income - Miscellaneous	-
Expenses	(4,227.51)
Ending Fund Balance	546,839.58
First Bank of the Lake - Money Mkt.	135,056.14
CD Providence Bank, 8/20 #1268880	206,532.10
CD First Bank of the Lake, 2/20/21 #101318431	101,942.14
CD First Bank of the Lake, 04/20 #101318430	103,531.95
	-
Outstanding Checks:	(222.75)
	546,839.58

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CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 10/31/19			100,034.37
172	Equipment Replacement Fund	X	3,467.00	96,567.37
173	Controlled Heating & Cooling	X	318.15	96,249.22
174	Core & Main	X	250.60	95,998.62
175	Dam Steel & Supply	X	37.50	95,961.12
176	Jani-King	X	195.00	95,766.12
177	Menards	X	66.49	95,699.63
178	Road Runner LLC	X	1,400.00	94,299.63
179	USA Blue Book	X	303.67	93,995.96
180	Xylem Water Solutions USA	X	2,170.79	91,825.17
181	UV Doctor Lamps LLC	X	2,835.00	88,990.17
182	Bledsoe Automotive Serv.		484.00	88,506.17
183	O'Reilly Auto	X	253.78	88,252.39
184	Roemer's Heavy Equip		230.00	88,022.39
185	Alliance Water Resources, Inc.	X	24,966.00	63,056.39
186	Ameren MO	X	4,919.64	58,136.75
187	AT&T	X	93.73	58,043.02
188	Republic Service		154.17	57,888.85
189	Knapheide Truck Equipment	X	1,737.00	56,151.85
190	Above & Beyond Roofing	X	1,986.19	54,165.66
191	Menards	X	15.95	54,149.71
192	Dam Steel & Supply	X	62.93	54,086.78
193	Roemer's Heavy Equip		314.59	53,772.19
	Check Order	X	99.20	53,672.99
	Two signature verification chg.	X	3.00	53,669.99
	Deposit LO	X		5,982.03
	Deposit OB	X		39,851.30
	Deposit HAULING	X		540.00
	Deposit HAULING	X		900.00
	Interest	X		196.23
	reconciled balance 11/30/19			101,139.55

E/N



Central Bank of Lake of the Ozarks

MEMBER FDIC

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

RETURN SERVICE REQUESTED

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

Period 11/01/2019 - 11/29/2019 Page 1 of 4

Web Address
www.centralbank.net

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Your Financial Summary on November 29, 2019

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 102,322.31	
Certificates of Deposit	\$ 100,000.00	
Bank Deposit Total		\$ 202,322.31
Total Assets:	\$ 202,322.31	\$ 202,322.31

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 1 Beginning Balance October 31, 2019 \$ 100,034.37

Deposits

Nov. 04	Deposit	540.00
Nov. 15	CD Interest 000151763	183.05
Nov. 19	Deposit	5,982.03
Nov. 19	Deposit	39,851.30
Nov. 20	Deposit	900.00
Nov. 29	Interest Earned	13.18

Total +\$ 47,469.56

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
172	Nov. 21	3,467.00	181	Nov. 26	2,835.00
173	Nov. 22	318.15	183	Nov. 26	253.78
174	Nov. 26	250.60	185	Nov. 21	24,966.00
175	Nov. 21	37.50	186	Nov. 27	4,919.64
176	Nov. 25	195.00	187	Nov. 26	93.73
178	Nov. 22	1,400.00	189	Nov. 25	1,737.00
179	Nov. 26	303.67	190	Nov. 26	1,986.19
180	Nov. 29	2,170.79	192	Nov. 21	62.93
		Total			-\$ 44,996.98

Withdrawals and other charges

Date	Type	Transaction Description	
Nov. 01	10/2019 TWO SIGNATURE VERI		3.00
Nov. 22	MENARDS LAKE OZA8662377650 177		66.49
Nov. 22	MENARDS LAKE OZA8662377650 191		15.95
Nov. 27	HARLAND CLARKE CHK ORDERS		99.20
		Total	-\$ 184.64

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 7/31/19			134,482.16
	Interest	X	111.29	134,593.45
	Deposit	X	3,467.00	138,060.45
	reconciled balance 8/31/19			138,060.45
1032	TG Technical Services	X	494.87	137,565.58
1033	Letts, Van Kirk & Assoc.	X	6,999.00	130,566.58
	Interest	X	116.75	130,683.33
	Deposit	X	3,467.00	134,150.33
	reconciled balance 9/30/19			134,150.33
1034	Lake Sun	X	240.75	133,909.58
1035	USA Blue Book	X	2,004.97	131,904.61
	Interest	X	114.75	132,019.36
	Deposit	X	3,467.00	135,486.36
	reconciled balance 10/31/19			135,486.36
1036	Catalyst Electric	X	3,899.00	131,587.36
1037	Lake Sun		222.75	131,364.61
1038	USA Blue Book	X	105.76	131,258.85
	Interest	X	107.54	131,366.39
	Deposit	X	3,467.00	134,833.39
	reconciled balance 11/30/19			134,833.39



4558 Osage Beach Parkway
Suite 100
Osage Beach, MO 65065

RETURN SERVICE REQUESTED

>000021 6230553 0001 093195 10/21/19

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

Account Summary

Date	Description	Amount
11/01/2019	Beginning Balance	\$135,486.36
	2 Credit(s) This Period	\$3,574.54
	2 Debit(s) This Period	\$4,004.76
11/29/2019	Ending Balance	\$135,056.14

Statement Ending 11/29/2019

Page 1 of 4

Managing Your Accounts

	Phone Number	573-348-2265
	Mailing Address	4558 Osage Beach Parkway Suite 100 Osage Beach, MO 65065
	Online Banking	www.FirstBankLake.com

Interest Summary

Description	Amount
Annual Percentage Yield Earned	1.00%
Interest Days	29
Interest Earned	\$107.54
Interest Paid This Period	\$107.54
Interest Paid Year-to-Date	\$1,312.23
Minimum Balance	\$0.00
Average Available Balance	\$135,352.60

Deposits

Date	Description	Amount
11/20/2019	DEPOSIT	\$3,467.00

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**OUR
MISSION**

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management and financial oversight, and ensured regulatory compliance.

**Alliance Water
Resources,
Inc.**

**206 S. Keene
St.
Columbia, MO
65201**

(573)874-8080

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

REPORT OF OPERATIONS

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

Month of November 2019

Submitted by Alliance Water Resources, Inc. for the

December 2019

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-0103241. 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	2.0	2.4	N/A	0		0.04	< 4.8	< 1.0
Peak Day	2.6	3.1	7.9	0		0.10	< 4.8	< 1.0
Percent Removal	98.8	98.7	N/A	N/A		N/A	N/A	N/A

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		2.2	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.264 MGD or 42% of Permitted flow with Lake Ozark contributing 13% of the total flow and Osage Beach contributing 87%. 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 52435 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 29 tanker loads of bio-solids during the month equivalent to a total of 107,300 gallons and 31,629 pounds dry weight solids.

396,308 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 315,000 gallons with a level of 3.5 feet in Tank 1 and 3.5 feet in Tank 2.

WASTEHAULERS

The plant received 15 loads of septage during the month totaling 36,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- UV system was shut down on the 1st of November.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We came in on the 10th of November and noticed that the pista grit wasn't working so we troubleshot it on the 11th and found a relay was bad. We replaced it with the spare that we had in stock and had it back online that same day and we also ordered some more spares.
- We pulled the UV modules, cleaned and stored them in the UV room in preparation for next year's disinfection season on the 18th on November.
- We came in the 19th of November and found the pista grit down again and troubleshot it and found the breaker for the air/vac pumps was bad, so we went and got one at CED and had it back online that same day.

SAFETY

- We conducted our monthly routine Safety Meeting on Chlorine Handling Safety on the 13th of November.

REGULATORY AGENCY, INSPECTION AND REPORTS

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

MISCELLANEOUS AND RECOMMENDATIONS

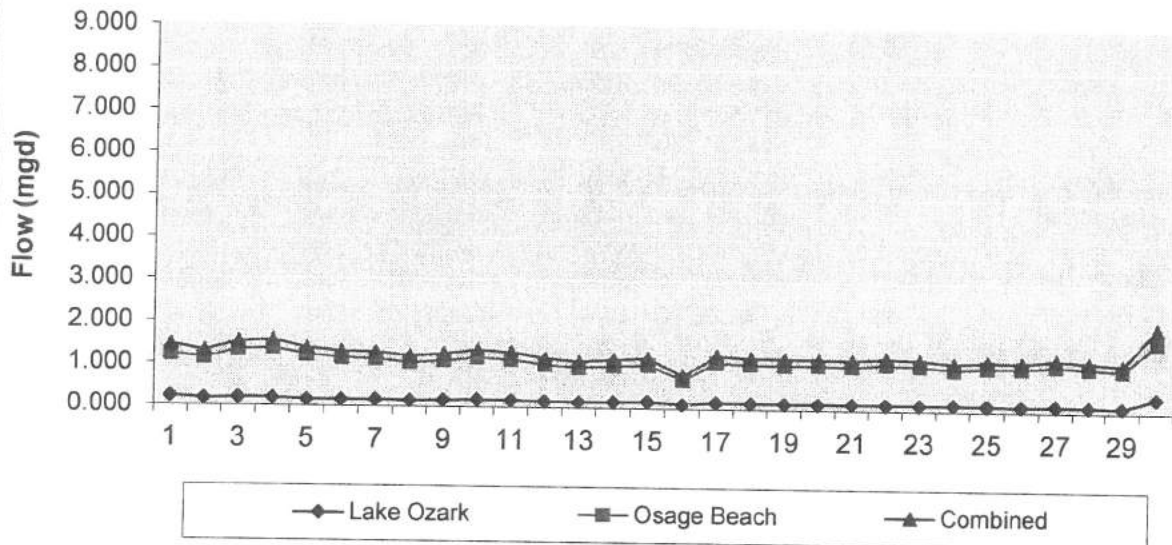
- The Flygt lift station pump that JCI gave us a bid on to replace the pump seal in are obsolete due to the age of the pump. We have solicited bids for a replacement pump from five vendors and will bring the bids to the Joint Sewer Board meeting. The companies are JCI, Municipal Equipment, Alliance Pump, Independent Electric Machinery and C & B Equipment (Dba, Douglas pump).
- The new ammonia probe that we purchased last month from USA Bluebook was the wrong probe, so we sent it back and got the correct one. After receiving the correct one we were still having problems, so we called HACH tech support. They said that the meter needed replaced, so we got everything approved through the Joint Sewer Board representatives and ordered a replacement meter to go with the new probe.
- Lumix Electrical has requested an extension for the completion date for the replacement of the RAS MCC project from Dec. 31, 2019 to January 31, 2020.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 2019

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	0.223	1.224	1.447	15.4	84.6	70	65	75	50	76	102
2-Nov	0	0.170	1.138	1.308	13.0	87.0						
3-Nov	0	0.193	1.328	1.521	12.7	87.3						
4-Nov	0	0.190	1.374	1.564	12.1	87.9						
5-Nov	0	0.157	1.222	1.379	11.4	88.6						
6-Nov	0	0.158	1.155	1.313	12.0	88.0						
7-Nov	0	0.162	1.134	1.296	12.5	87.5						
8-Nov	0	0.145	1.057	1.202	12.1	87.9	175	223	138	110	196	142
9-Nov	0	0.165	1.100	1.265	13.0	87.0						
10-Nov	0	0.178	1.181	1.359	13.1	86.9						
11-Nov	0.25	0.174	1.133	1.307	13.3	86.7						
12-Nov	0.1	0.146	1.027	1.173	12.4	87.6						
13-Nov	0	0.144	0.960	1.104	13.0	87.0						
14-Nov	0	0.146	1.012	1.158	12.6	87.4	190	163	238	132	134	280
15-Nov	0.0	0.163	1.032	1.195	13.6	86.4						
16-Nov	0	0.102	0.690	0.792	12.9	87.1						
17-Nov	0	0.156	1.107	1.263	12.4	87.6						
18-Nov	0	0.150	1.066	1.216	12.3	87.7						
19-Nov	0.05	0.140	1.064	1.204	11.6	88.4						
20-Nov	0	0.141	1.059	1.200	11.8	88.3						
21-Nov	0.25	0.147	1.049	1.196	12.3	87.7	220	210	180	190	164	202
22-Nov	0.25	0.144	1.096	1.240	11.6	88.4						
23-Nov	0.25	0.141	1.067	1.208	11.7	88.3						
24-Nov	0	0.146	0.991	1.137	12.8	87.2						
25-Nov	0	0.139	1.042	1.181	11.8	88.2						
26-Nov	0	0.125	1.033	1.158	10.8	89.2						
27-Nov	0.3	0.141	1.088	1.229	11.5	88.5	213	258	198	126	140	182
28-Nov	0	0.134	1.048	1.182	11.3	88.7						
29-Nov	0.3	0.118	1.006	1.124	10.5	89.5						
30-Nov	1.75	0.341	1.658	1.999	17.1	82.9						
SUM	3.5	4.779	33.141	37.920								
AVG		0.159	1.105	1.264	13	87	174	184	166	122	142	182
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

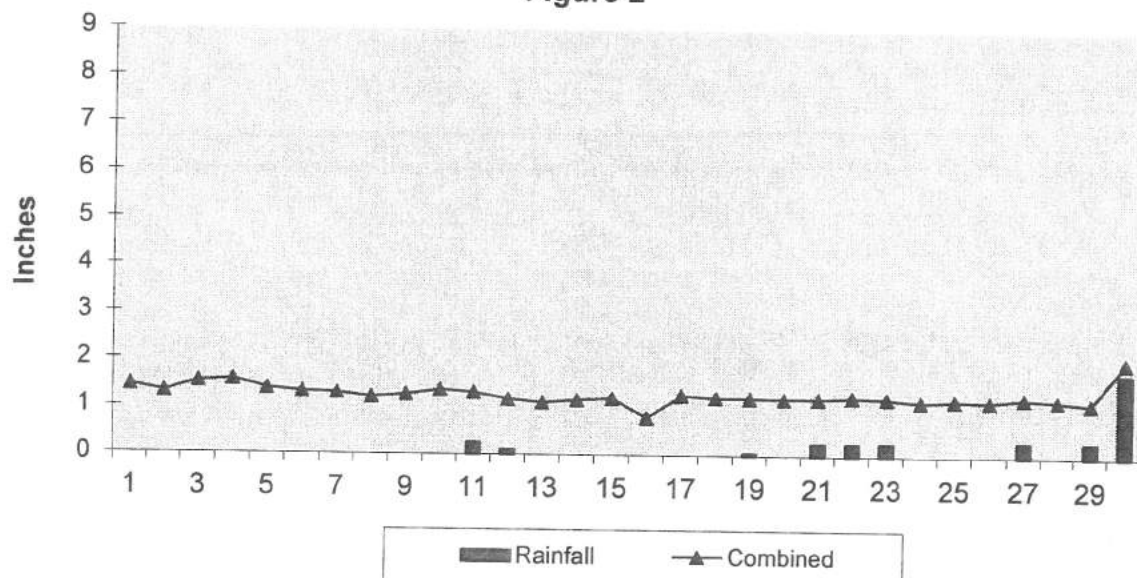
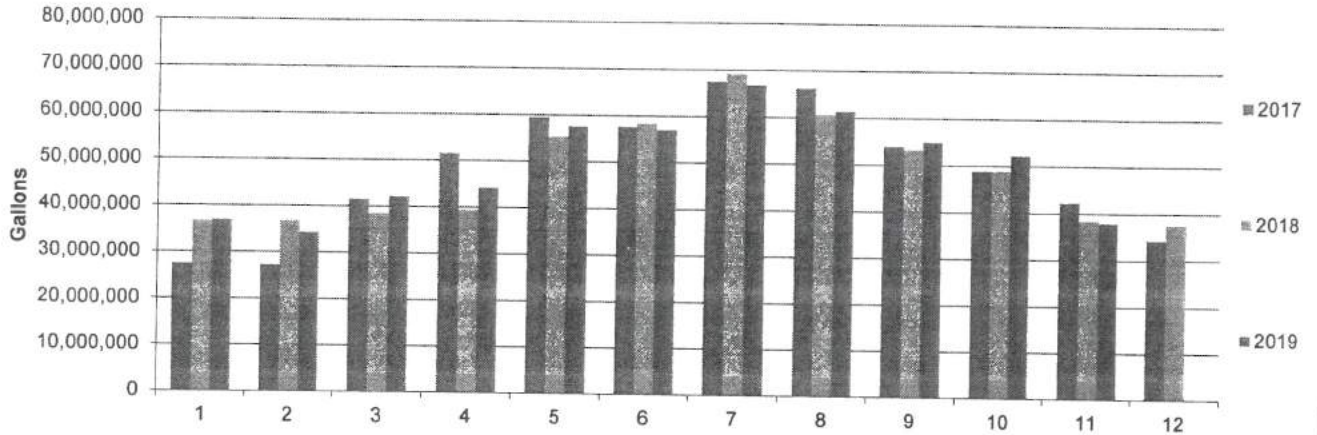


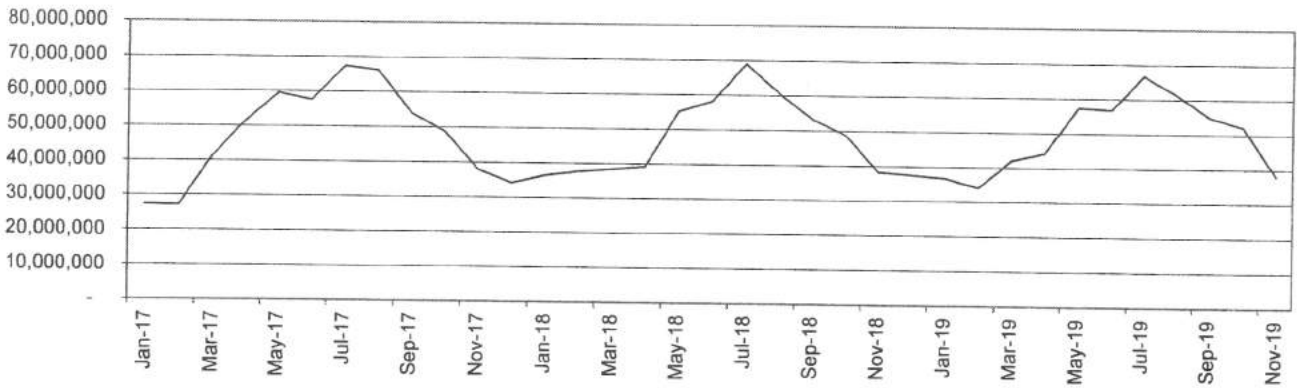
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2017</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8	44,665,000	87%	6,723,000	13%	51,388,000	100%
May	8.1	51,527,000	87%	7,979,000	13%	59,506,000	100%
June	2.9	50,926,000	88%	6,618,000	12%	57,544,000	100%
July	5.2	59,347,000	88%	8,092,000	12%	67,439,000	100%
August	12.4	57,736,000	87%	8,409,000	13%	66,145,000	100%
September	1.5	47,096,000	87%	6,866,000	13%	53,962,000	100%
October	7.4	42,489,000	87%	6,332,000	13%	48,821,000	100%
November	0.5	37,947,000	90%	4,244,000	10%	42,191,000	100%
December	0.9	30,459,000	89%	3,808,000	11%	34,267,000	100%
	55.6	505,531,000	88%	71,636,000	12%	577,167,000	100%
<u>2018</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%
<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June	6.0	49,051,000	86%	7,864,000	14%	56,915,000	100%
July	4.8	57,666,000	86%	9,132,000	14%	66,798,000	100%
August	6.0	53,074,000	87%	8,215,000	13%	61,289,000	100%
September	3.5	47,732,000	87%	7,165,000	13%	54,897,000	100%
October	11.1	44,971,000	86%	7,194,000	14%	52,165,000	100%
November	3.5	33,141,000	87%	4,779,000	13%	37,920,000	100%
December						-	
	61.4	470,537,000	86%	74,051,000	14%	544,588,000	100%

Monthly Influent Flow
Figure 3A

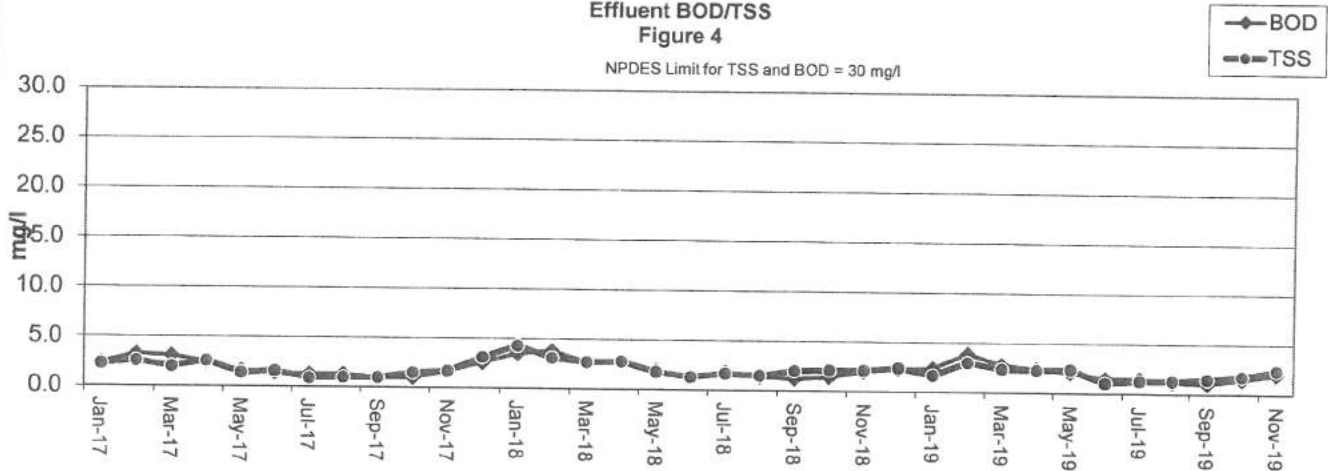


Monthly Influent Flow
Figure 3B



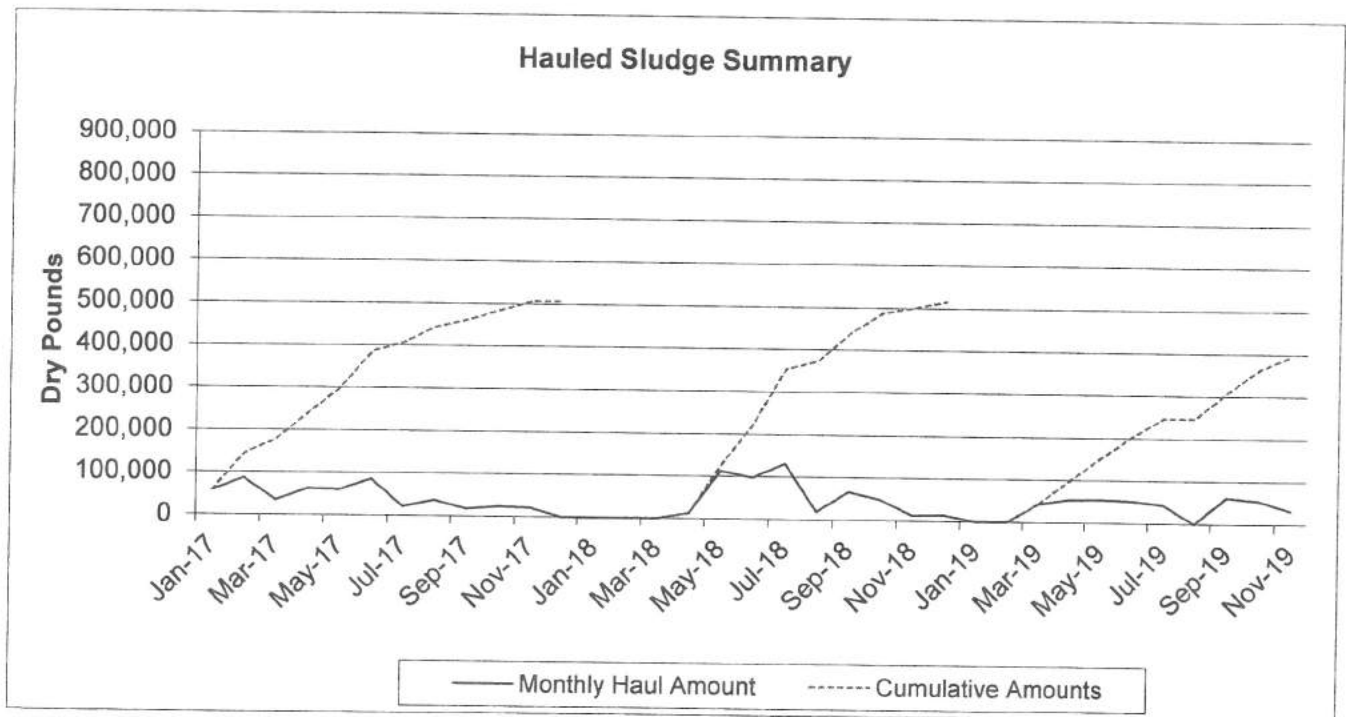
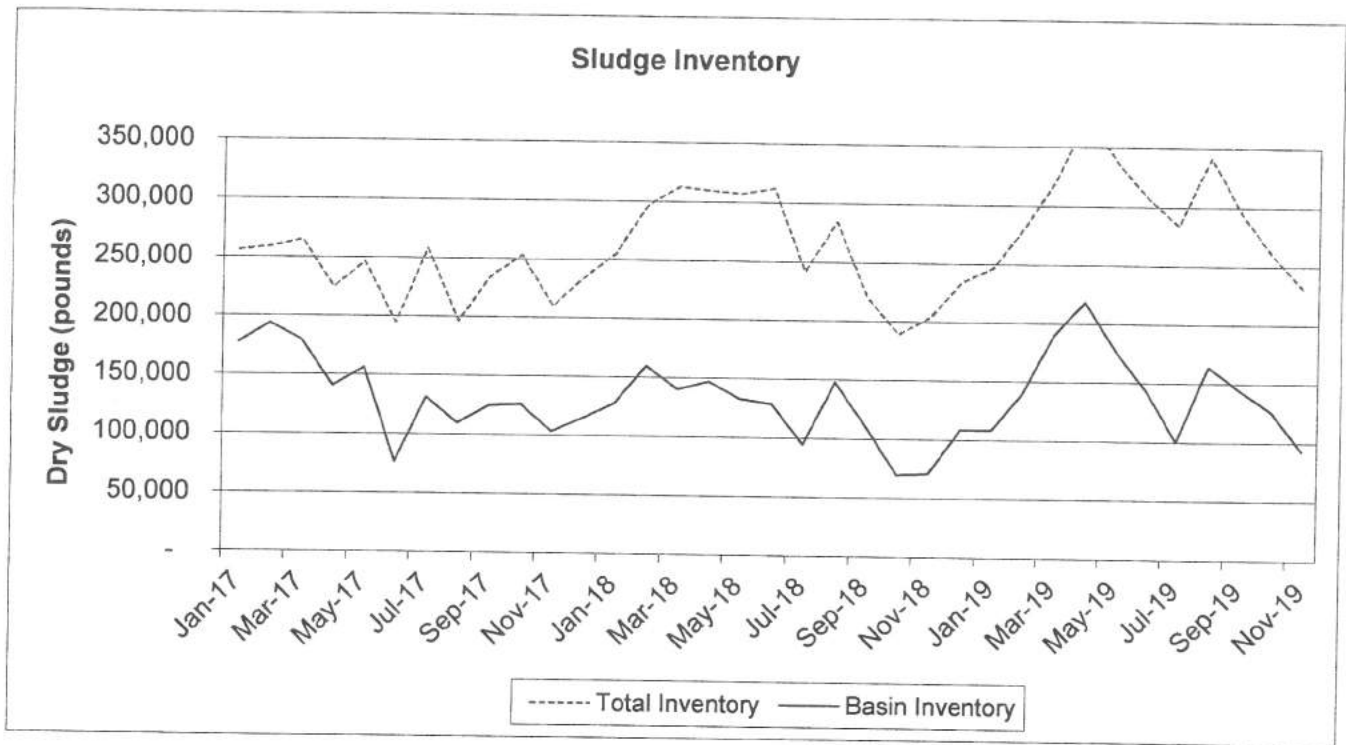
Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



34

	Hauled Sludge					Basin Depths					Blanket Depths					MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clarif #1	Clarif #2	Clarif #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory			Loads	Gallons
Jan-17	47	173,000	56,748	3.9%	56,748	6.0	6.0	0.0	540,000	177,132	1.0	0.0	1.0	-	5,080	1,861,190	78,853	0.00508	255,986			15	37,500
Feb-17	68	251,600	86,649	4.1%	143,397	5.5	7.0	0.0	562,500	193,720	1.5	0.0	2.0	-	4,090	1,913,499	65,271	0.00409	258,991			5	12,500
Mar-17	33	122,100	34,808	3.4%	178,205	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,896,714	85,420	0.0054	265,019			41	102,500
Apr-17	59	218,300	61,994	3.4%	240,199	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	224,939			8	20,000
May-17	51	188,700	59,556	3.8%	299,755	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00295	246,426			45	116,000
Jun-17	75	277,500	85,724	3.7%	385,479	2.5	3.0	0.0	247,500	76,457	3.0	2.5	1.5	4,530	3,000	3,762,833	118,153	0.00377	194,610			33	82,500
Jul-17	20	74,000	21,631	3.5%	407,110	4.5	5.5	0.0	450,000	131,540	1.0	1.0	0.5	4,670	3,650	3,657,238	126,886	0.00416	258,426			43	107,500
Aug-17	39	144,300	37,030	3.1%	444,140	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	196,173			41	103,500
Sep-17	16	59,200	17,311	3.5%	461,451	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	234,892			48	122,000
Oct-17	20	74,000	23,051	3.7%	484,502	8.0	1.0	0.0	405,000	126,159	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	253,182			10	23,500
Nov-17	20	74,000	21,292	3.4%	505,794	4.5	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,060	3,666,119	106,250	0.00348	208,832			7	17,500
Dec-17	0	-	0	3.4%	505,794	6.0	3.0	0.0	405,000	114,842	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792			7	17,500
Jan-18	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090			5	12,500
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113			16	40,000
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769			6	15,000
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	308,655			8	20,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,647	3,639,476	174,683	0.00576	307,321			10	24,500
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100			38	95,000
Jul-18	126	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,795	147,174	0.00478	242,026			42	107,000
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531			30	75,000
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132			45	113,500
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409			21	59,500
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809			8	21,500
Dec-18	14	51,800	14,688	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494			22	55,000
Jan-19	0	-	0	3.4%	-	5.0	3.5	0.0	382,500	108,462	1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874			19	46,500
Feb-19	0	-	0	3.4%	-	6.0	5.0	0.0	495,000	140,362	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503			31	79,500
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	585,000	189,462	0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033			9	21,500
Apr-19	39	144,300	53,940	4.5%	97,079	5.5	7.5	0.0	585,000	218,676	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923			23	61,500
May-19	49	181,300	54,866	3.6%	151,945	8.0	5.0	0.0	585,000	177,036	3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113			12	25,500
Jun-19	44	162,800	51,672	3.8%	203,617	7.0	3.0	0.0	450,000	143,381	2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267			19	47,500
Jul-19	37	136,900	43,633	3.8%	247,450	3.0	4.0	0.0	315,000	100,397	2.0	3.0	0.5	6,060	5,830	3,710,524	183,973	0.00595	284,370			36	84,000
Aug-19	0	-	0	3.8%	247,450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	5,660	5,680	3,763,810	177,982	0.00567	341,988			29	72,500
Sep-19	58	214,600	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00489	294,741			22	55,000
Oct-19	50	185,000	54,742	3.5%	364,679	7.5	2.0	0.0	427,500	126,498	2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00426	258,414			40	97,000
Nov-19	29	107,300	31,629	3.5%	396,308	3.5	3.5	0.0	315,000	92,853	3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,988			15	36,000

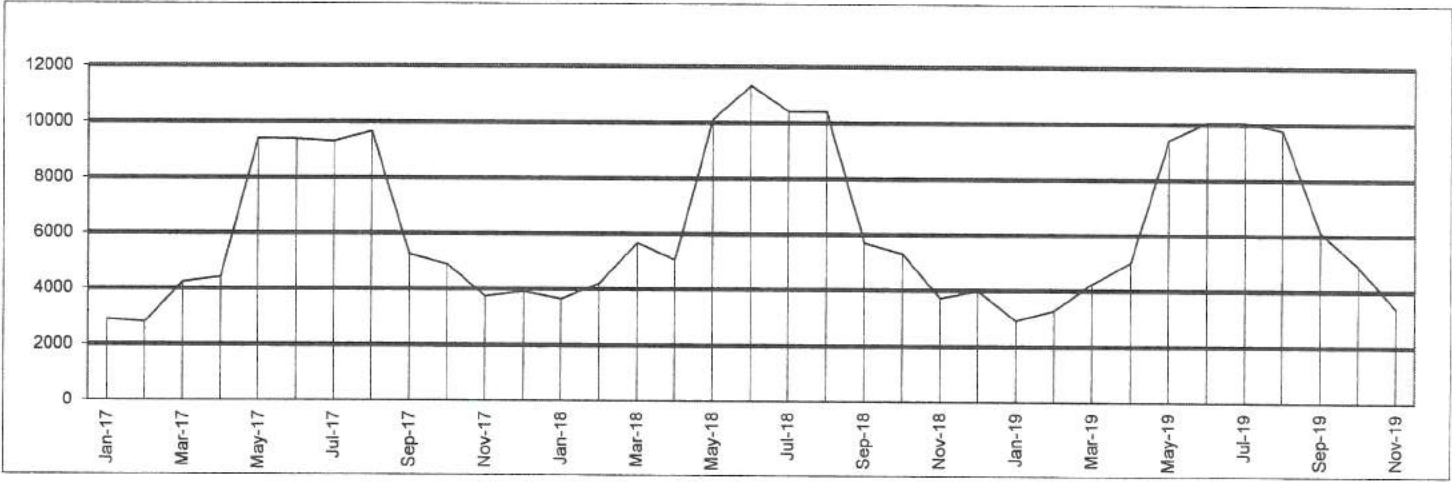


36

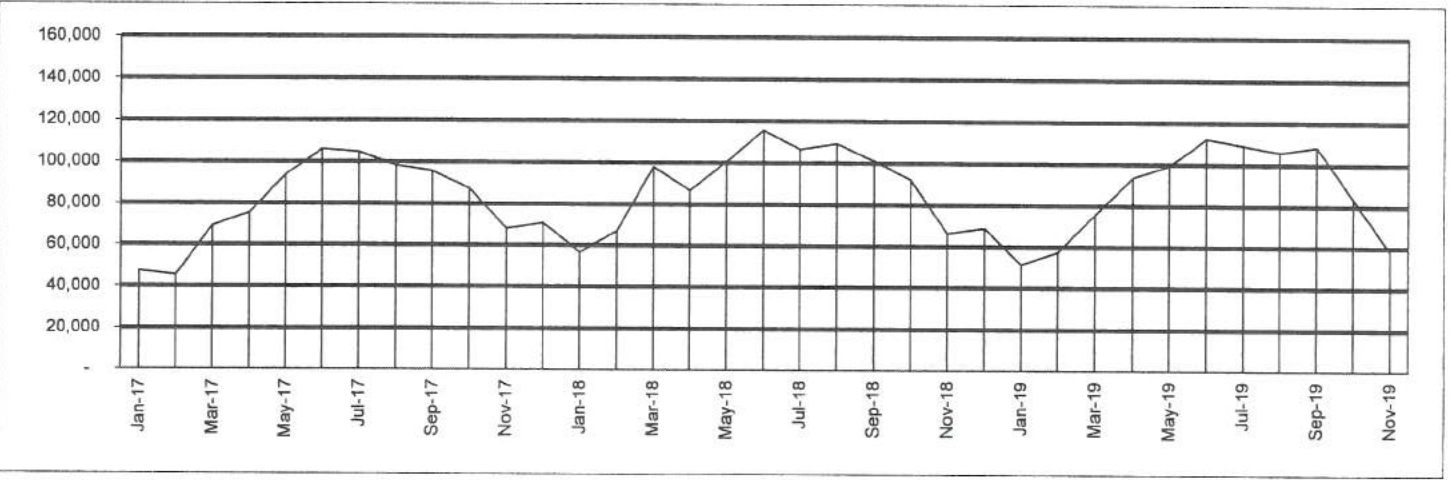
Electric Cost Kilowatts Used

Jan-17	2904	47,480
Feb-17	2796	45,240
Mar-17	4233	69,210
Apr-17	4411	75,480
May-17	9413	93,494
Jun-17	9388	106,070
Jul-17	9310	104,700
Aug-17	9666	98,220
Sep-17	5246	95,470
Oct-17	4874	87,240
Nov-17	3738	68,100
Dec-17	3909	70,820
Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
Jan-19	2926	51,490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330
Jun-19	10074	112,400
Jul-19	10066	109,190
Aug-19	9784	106,020
Sep-19	6115	108,680
Oct-19	4920	83,790
Nov-19	3390	58,410

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
 Discharge Monitoring Report For Municipal Wastewater Treatment Plants

NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Nov-19		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	7.1	75	102	15.4	1.880	7.5	1.6	2.2		8.3		12.7	97.9	97.8
2	7.2			15.1	1.588	7.5				8.6		12.5		
3	7.2			15.1	1.882	7.5				8.6		12.3		
4	7.4			15.8	1.898	7.7				8.4		13.4		
5	6.9			15.7	1.719	7.6			0.03	8.2		13.8		
6	6.9			16.4	1.625	7.4				8.1		13.7		
7	7.2			15.8	1.554	7.9				8.1		13.0		
8	7.2	138	142	14.5	1.627	7.5	2.0	3.1		8.6		11.7	98.6	97.8
9	7.2			13.5	1.589	7.5				8.4		11.0		
10	7.1			16.2	1.669	7.5				6.7		13.3		
11	7.3			13.8	1.529	7.5				6.7		12.1		
12	7.3			13.3	2.079	7.5			0.01	7.8		10.0		
13	7.3			13.3	1.874	7.3				5.9		10.0		
14	7.4	238	280	13.7	1.571	7.4	2.6	2.6		6.3		10.6	98.9	99.1
15	6.7			14.2	1.584	7.7				6.6		10.4		
16	6.6			13.3	1.556	7.6				6.3		9.7		
17	7.1			14.5	1.634	7.5				5.5		11.5		
18	7.2			14.1	1.578	7.5				5.8		11.5		
19	7.1			14.6	1.482	7.5			0.10	5.5		12.4		
20	7.0			14.2	1.511	7.5				5.8		12.2		
21	7.0	180	202	15.7	1.472	7.7	2.0	2.3		5.9		14.2	98.9	98.9
22	7.3			13.8	1.552	7.5				5.9		12.8		
23	7.3			13.6	1.535	7.6				5.9		11.9		
24	7.2			13.1	1.525	7.6				8.3		11.2		
25	7.2			13.6	1.491	7.6			0.002	7.9		11.9		
26	6.9			14.6	1.441	7.7				7.6		13.0		
27	7.1	213	182	13.6	1.546	7.5	1.9	1.7		7.0		12.4	99.1	99.1
28	7.0			13.8	1.538	7.4				7.2		11.3		
29	7.1			13.5	1.566	7.4				7.6		11.4		
30	7.0			13.8	2.555	7.3				6.8		12.5		
Total					49.650									
Avg		169	182	14.4	1.655		2.0	2.4	0.036	7.1	0.0	12.0	98.7	98.5
Min	6.6	75	102	13.1	1.441	7.3	1.6	1.7	0.002	5.5	0.0	9.7	97.9	97.8
Max	7.4	238	280	16.4	2.555	7.9	2.6	3.1	0.100	8.6	0.0	14.2	99.1	99.1

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4	< 4.8	< 1.0	241	281						
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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26										
27										
28										
29										
30										
31										
Total	< 4.8	< 1.0	241	281						
Avg	< 4.8	< 1.0	241	281						
Min	< 4.8	< 1.0	241	281						
Max	< 4.8	< 1.0	241	281						

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		6.2	4,480	740	12.8	6.1	4,250	620	12.9	31	0	7:30
2		6.8	4,380	790	12.3	6.9	4,060	700	12.7	37	0	7:30
3		6.2	4,170	790	12.3	6.3	4,270	780	12.5	35	0	7:30
4		5.6	4,470	700	13.3	4.4	4,430	740	13.4	44	0	7:30
5	4,197	6.0	4,210	660	13.5	5.5	5,000	780	13.9	39	0	7:30
6		6.0	3,960	550	13.8	5.2	4,290	640	14.4	48	0	7:30
7	7,992	5.6	4,490	760	13.1	5.3	4,010	700	13.4	38	0	7:30
8	3,055	5.7	4,960	780	11.9	6.5	4,180	680	12.1	25	0	7:30
9	4,197	6.7	4,970	850	11.4	6.7	3,610	600	11.7	38	0	7:30
10	4,197	1.8	4,120	630	13.8	3.9	3,650	420	13.7	51	0	7:30
11		1.8	4,720	700	12.3	3.9	4,250	650	12.7	39	0.25	7:30
12		3.1	4,990	800	10.0	6.4	3,870	640	10.3	15	0.1	7:30
13		1.5	4,080	700	10.3	7.3	3,650	570	10.5	23	0	7:30
14		1.9	3,470	500	11.1	2.9	3,910	600	11.2	36	0	7:30
15		3.9	4,270	700	11.0	4.2	4,240	700	11.4	30	0	7:30
16		1.4	4,290	800	10.1	3.1	3,820	600	10.6	20	0	7:30
17		1.3	4,550	770	11.7	3.1	4,070	660	12.0	42	0	7:30
18		1.3	4,440	700	11.7	1.5	4,560	670	11.9	37	0	7:30
19		1.3	4,730	600	12.7	1.5	4,610	750	12.9	42	0.05	7:30
20	7,992	1.5	4,980	800	12.1	2.3	4,090	670	12.6	37	0	7:30
21		1.5	5,440	750	14.8	2.3	4,290	690	14.5	62	0.25	7:30
22		1.6	6,920	810	12.5	2.5	4,140	720	12.8	41	0.25	7:30
23		1.6	4,830	830	12.0	3.4	4,180	670	11.9	39	0.25	7:30
24		3.2	4,730	880	11.4	5.4	4,170	770	11.5	34	0	7:30
25		2.3	4,850	840	11.8	2.3	4,050	660	12.1	38	0	7:30
26		1.9	4,800	770	13.2	2.5	3,710	550	13.1	46	0	7:30
27		2.0	4,900	750	12.4	2.1	4,260	660	12.8	40	0.3	7:30
28		4.6	4,670	810	11.4	5.2	4,330	720	11.4	36	0	7:30
29		4.2	4,580	800	11.5	4.4	4,520	800	11.6	42	0.3	7:30
30		3.2	4,980	680	12.5	3.4	3,850	540	12.5	48	1.75	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	12/4/2019
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	12/4/2019

*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 I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	11	01		2019	11	30

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	*****	*****	*****	2.6	2.0	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****	*****	*****	97.9	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.555	1.655	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	0.10	*****	0.04	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 11.5	*****	Monthly Average : 2.2	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****	<4.8	*****	<4.8	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 15	*****	Monthly Average : 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	7.3	*****	7.9	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Minimum : 6.5	*****	Maximum : 9.0	Weekly	Grab
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****	<1.0	*****	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	Daily Maximum : 9.1	*****	Monthly Average : 3.6	Monthly	Grab

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.

OPERATOR IN RESPONSIBLE CHARGE

Gary Hutchcraft	7305
TYPED OR PRINTED NAME	CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE
Gary F Hutchcraft	Gary F Hutchcraft
TYPED OR PRINTED NAME	SIGNATURE
	2019-12-04 15:30:50
	Date

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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 I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	11	01		2019	11	30

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

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Suspended Solids, percent removal (81011)	REPORTD	*****	*****	*****	*****	97.8	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum : 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	3.1	2.4	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Weekly Average : 45	Monthly Average : 30	Weekly	24 Hour Composite

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Gary Hutchcraft	7305
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE
Gary F Hutchcraft	Gary F Hutchcraft
TYPED OR PRINTED NAME	SIGNATURE
	2019-12-04 15:30:50
	Date

Page 2

PERMITTEE NAME/ADDRESS

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)

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

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2019	11	01	2019	11	30

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

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTID	*****	*****	281	*****	281	Monthly	Grab
Stage Type: Instream Monitoring	REQRMT	*****	*****	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Monthly	Grab

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455	
Gary F Hutchcraft		2019-12-04 15:30:50	
TYPED OR PRINTED NAME		Date	
SIGNATURE			

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FOR NOVEMBER 2019

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

Date 12/4/2019



Christopher Smith
901 S. Business 54
Fulton, MO 65251
Office: 573-642-7960
Fax: 573-642-6373
Mobile: 573-220-8332

RAS/WAS MCC Replacement Project

Thursday, November 21, 2019

Due to materials lead time in order to build new MCC and then install we are requesting to extend completion date to January 31st.

All materials will be released by Nov. 27th.

If need be we could invoice this project by Dec. 31st and complete the project install in January.

 11-26-19
Christopher Smith, Vice Pres.