OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA April 16, 2024 @ 4:00 p.m. LAKE OZARK CITY HALL

1. CALL TO ORDER

2.	RO	LT.	CAI	T
m.	110		CAL	J.

Mayor, Michael Harmison
Mayor, Dennis Newberry
City Administrator, Harrison Fry
City Administrator, Jeana Woods
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Member at Large, Gary Hamner
Public Works Manager, Osage Beach, Zachary Wilber

3. PUBLIC COMMENT

11. ADJOURNMENT

4. MINUTES

	Regular Meeting: March 19, 2024	2-3
5.	REPORTS	
	Bills List Revenue Budget Analysis Expenditure Budget Analysis Income & Expense Summary	4-9 10 11 12
6.	ALLIANCE REPORT OF OPERATIONS	13-31
7.	APPROVAL OF FLOW CHARTS	
8.	OLD BUSINESS	
	A. Board update.	
9.	NEW BUSINESS	
10	D. ADDITIONAL DISCUSSION ITEMS	

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes - March 19th, 2024

CALL TO ORDER:

Mayor Harmison called the meeting to order at 4:00 pm on Tuesday, March 19th, 2024, at Lake Ozark City Hall.

ROLL CALL:

Mayor, Michael Harmison- Present
Mayor, Dennis Newberry — Present
City Administrator, Harrison Fry - Present
City Administrator, Jeana Woods - Present
Alderman, Kevin Rucker- Present
Alderman, Pat Thompson- Present
Public Works Director, Matt Michalik — Present
Resident Member, Mr. Gary Hamner — Present
Public Works Manager, Zachary Wilber - Present

MINUTES:

Alderman, Pat Thompson, motioned to approve the meeting minutes from January 16th, 2024. The motion was seconded by Alderman, Kevin Rucker and passed unanimously.

REPORTS:

February and March 2024

- Bill List
- Revenue Budget Analysis
- Expenditure Budget Analysis
- Income & Expense Summary

A motion was made by Alderman, Kevin Rucker to approve the Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded City Administrator, Jeana Woods and passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for January was 1.009 mgd. And 0.815 mgd for February. We had 4.8 inches of precipitation measured at the WWTP for January. We had 1.1 inches for February.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of $4.2 \, \text{mg/l}$ and TSS of $2.8 \, \text{mg/l}$ respectively for January which represents a 97.9 + % or better removal and for February an effluent monthly average BOD of $1.8 \, \text{mg/l}$ and TSS of $1.0 \, \text{mg/l}$, which represents a 99.3 + % or better removal.

The MLSS average for both aeration basins for January was 4,582 mg/l and for February was 5,619 mg/l/ The total dry weight sludge inventory for January totaled 303,243 pounds and February was 310,041 pounds. There were 36 loads of biosolids, or 129,600 gallons land applied for February. We received 23 loads of septage or 43,000 gallons for January and 21 loads of septage or 40,000 galls for February.

APPROVAL OF FLOW CHART:

Alderman, Pat Thompson motioned to approve the flow charts. The motion was seconded by City Administrator, Jeana Woods and was unanimously approved.

OLD BUSINESS:

- A. Board Representative Update. A plumbing contractor hired to excavate to repair the hydrant leaking.
- B. Matt talked about a change in the style of the new RAS pumps that were approved.

NEW BUSINESS:

A. Reviewed and discussed RFT insurance Coverage. Motion made by City Administrator, Jeana Woods, to approve renewal with Assured Partners. The motion was seconded by City Administrator, Harrison Fry and passed unanimously.

ADDITIONAL DISCUSSION ITEMS: .

- **A.** Updated report for the Capital Replacement Forecast Plan was discussed and reviewed. No approval necessary.
- **B.** Discussion to review and discuss JSB serve area connection polices.

ADJOURNMENT:

With no further business to discuss, a motion was made by City Administrator, Harrison Fry to adjourn. City Administrator, Jeana Woods seconded the motion. The meeting was adjourned at 4:27 pm.

Approved:	
Michael Harmison, Mayor	Robin Craig, Clerk

4

JOINT SEWER BOARD BILL LIST APRIL 16, 2024

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING: OPERATING FUND BILLS TO BE PAID: EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING: EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:			\$ \$ \$ \$	946,51 97,908.88 -		
		-		TOTAL	\$	98,855.39
	IC EIND DU LO BAIR DE			Ó-	******	
Account	IG FUND BILLS PAID PRI Paid To:	IOR TO				
4176	Allied Services		Description:			Amount:
4140	Cincinnati Insurance		April		\$	78.51
7 1 TU	Ontonnati insurance		Directors & Officers 4/10/24-4/1		\$	868,00
		-		TOTAL	\$	946.51
OPERATIN	IG FUND BILLS TO BE PA	AID:				
Account		,,	Description:			A ma milimati
4000	Equipment Replacement	Fund	Payment into ER Fund		œ.	Amount:
4020	DOC Lubricantion Spec.		Motor Grease		\$ \$	15,000.00 70.00
4020	Grainger		Pressure Washer Attachment		\$	104.53
4020	Grainger		Pole Brushes, Hose Nozzle		\$	104.55
4020	Hogan's Inc.		Sandblast & Paint Clarifier #3	•	\$	43,550.00
4020	John Henry Foster		Filters for UV Airsystem		\$	122.41
4020	John Henry Foster		Filters for UV Airsystem		\$	565.24
4020	M/C QuickBooks		Grease Cleaner		\$	54,99
4020	M/C QuickBooks		Accounting Software		\$	30.00
4020	Martin Energy Group		Semi-Annual Main Generator		\$	406.00
4020	Menards	63426	Wrench Set		\$	24.99
4020	Menards		Return Wrench Set		\$	(24.99)
4020	Menards	63456	Pressure Washer Parts		\$	29.98
4020	Menards	83540	Pressure Washer Attachments		\$	40.94
4020	Menards	83577	Pressure Washer Attachments		\$	72.98
4020	Menards	63626	Return Pressure Washer Attack	h	\$	(92.97)
4020	Menards	64148	Parts for spray Nozzle		\$	21.16
4020	Menards	64231	Weed Killer & Sprayer		\$	277.46
4020	Menards	64462	Bleach & Hook		\$	49.46
4020	USA Bluebook		Freight for repair of DO Meter		\$	24,33
4020	Woodley Building Main.		Janitorial - April		\$	330.00
4150	O'Reilly Auto		Windshield Wiper Blades		\$	55.08
4020	O'Reilly Auto		Air Filter for Digester Blower		\$	175.20
4150	O'Reilly Auto		Fuel Filter, Heet, Start Fluid		\$	15.61
4170	Alliance Water Resource	s Inc	April		\$	30,321.00
4175	Ameren MO		11673321		\$	5,649.78
4175	Ameren MO		98041275		\$	136.32
4176	Ferrellgas		Rental and Propane		\$	797.63
				TOTAL	\$	97,908.88
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HOGAN'S INC.

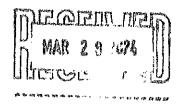
2787 Carter Rte. M Van Buren, MO 63965

Phone # (573) 323-8214 Fax # (573 323-8728

JOINT SEWER BOARD FO BOX 1985 LAKE OZARK, MO 65049

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Credit from Sherwin Willams	# A55 54	
Credit from Hogan's Inc.	-1,300.00	-1,300.00
	-2,600.00	-2,6 00 .0 0
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	Total	\$43,550.00



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Account Number 4580005832

Customer Name

ALLIANCE WATER RESOURCES INC

Service Address 3 ANDERSON RD.

LAKE OZARK, MO 65048

Current Detail for Statement 04/09/2024

Total Electric Charges

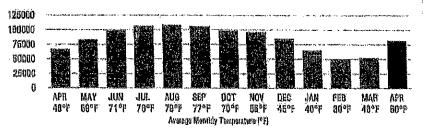
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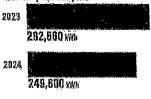
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Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So for this year you're using 11.7% loss than the same their parted last year.



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

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PO BOX 88068 CHICAGO IL 60680-1068



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Account Number 5580005920

Cirstomer Name

ALLIANCE WATER RESOURCES INC

Service Address

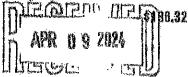
S ANDERSON RD LAKE OZABK, MO 65049

Current Datoil for Statement 04/09/2024

Total Electric Charges

\$136,32

Total Amount Due



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

3/31/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 3/31/2024	2024 March Revenue	Percent YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	124,178.08	43,005.16	24%
30 10	Lake Ozark	91,794.26	87,143.84	97,552.00	23,405.26	7,803.18	24%
3030	Misc,	1,094.92	234.08	0.00	0.00	0,00	0%
3100	Interest	2,462.35	5,522.07	5,000.00	3,136.24	35.99	63%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	6,825.00	2,575.00	12%
	Total Operating Fund	605,550.23	647,261.98	671,700.00	157,544.58	63,419.33	23%
	E/R Fund Income	3,588.63	15,192.01	12,000.00	4,986.59	302.36	42%
	TOTAL INCOME	609,138.86	662,453.99	683,700.00	162,531.17	53,721.69	24%

MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 3/31/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 3/31/2024	2024 March Expenses	Percent YTD
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000.00	15,000.00	5,000.00	15%
4020	*Maintenance & Repair	60,030,11	84,665,12	64,000.00	7,140.92	3,394.15	11%
4140	Insurance	22,088.00	22,791.00	26,210.00	0.00	0.00	0%
4150	Vehicle Repair/Main	5,999.58	3,255.47	9,000.00	439.93	92.80	5%
4170	Contract Management	331,080.00	353,592.00	374,808.00	90,963.00	30,321.00	24%
4175	Electric	79,890.16	88,547,80	87,000.00	12,189.55	3,925,29	14%
4176	Utilitles Misc.	3,694,18	4,579.70	4,700.00	686.78	113.41	15%
4190	Bank Charges	12,00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	0.00	0.00	0%
4240	Capital Purchases	0,00	0.00	0.00	0,00	0.00	0%
	Totals	678,450.37	620,234.09	668,618.00	126,420.18	42,846.65	19%
	**E/R Expenses	202,161.70	113,313.66	195,000.00	369.98	0.00	0%
	TOTAL EXPENSES	880,612.07	733,547.75	863,618.00	126,790.16	42,848.65	15%

4020 DETAIL: Equip & Bldg. Repair/Main.

Regular Maintenance20,000UV Bulbs, Quartz Sleeves, Misc11,000Painting RAS basement piping (
Rock for road)30,000

DETAIL: Equipment & Replacement

Replace RAS Pumps & Check Vi	195,000
	195,000.00

64,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY 3/31/2024

Beginning Balance	391,753.38
Income - Osage Beach	43,005.16
Income - Lake Ozark	7,803.18
Income - Other	
Income - Waste Haulers' Fees	2,575.00
Interest - Checking	35.99
Income - CD Interest	
Transfers From E/R Fund	•
Transfers To E/R Fund	(5,000.00)
Expenses	(37,846.65)
Ending Fund Balance	402,326.06
Central Bank - NOW Acct.	172,240.52
CD First Bank of the Lake, 2/20/25 #8432	- 112,128.96
CD First Bank of the Lake, 1/22/25 #8433	118,836.58
Outstandle O	•
Outstanding Checks:	(880.00)
	402,326.06

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 3/31/2024

Beginning Balance	503,133.20
Interest - Checking Income - CD Interest	302,36
Transfers From Operating Fund Income - Miscellaneous Expenses	5,000.00 - -
Ending Fund Balance	508,435.56
First Bank of the Lake - Money Mkt. CD First Bank of the Lake, 4/30/25 #8430 CD First Bank of the Lake, 5/07/24 #8434	122,303.83 116,131.73 270,000.00
Outstanding Checks:	508.435.56

<u>OUR</u> <u>MISSION</u>

We partner with communities to deliver the finest water and wastewater services avallable at a competitive price. We are committed to keeping water safe and clear while serving people and laking 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 MC 85201

(573)874-8080



REPORT OF OPERATIONS

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

Month of March 2024

Submitted by Alliance Water Resources, Inc. for the

April 2024

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		coli Coliform Nonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.3	1.9	N/A	0.0	0.07	< 2.0
Peak Day	2.6	2.3	8.1	0.0	0.11	< 2.0
Percent Removal	99.1	99.4	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg Weekly Average	30 45	30 45	6-9	126 630	3.1	10
Daily Max				N/A	12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.078 MGD or 36% of Permitted flow with Lake Ozark contributing 19% of the total flow and Osage Beach contributing 81%. 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 75311 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 25 tanker loads of bio-solids during the month equivalent to a total of 90,000 gallons and 29,724 pounds dry weight solids.

70,587 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 495,000 gallons with a level of 7.0 feet in Tank 1 and 4.0 feet in Tank 2.

<u>WASTEHAULERS</u>

The plant received 21 loads of septage during the month totaling 51,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We started up the UV system on the 18th of March and ran a process control e-coli on the 28th with a result of < 20/100 ml colony count.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- The flow meters for Lake Ozark and Osage Beach tripped out sometime in the evening hours of the 5th of March to the 6th am. We reset them and Lake Ozark wouldn't come back on, but Osage Beach's did. We contacted Municipal Equipment, and they came out later that morning and swapped out one of our RAS meters for Lake Ozarks meter. They took the bad meter back and sent it back to the factory for warranty repair.
- Hogan Inc. came in on the 19th of March to do some touching up and came back on the 27th to reinstall the squeegees on the scraper arms of Clarifier #3.
- Central MO came out on the 20th of March to fix the leak in the non-pot hydrant line and found that it was the line going into the RAS basement. They got that fixed and came back on the 22nd to check out the hydrant that wouldn't shut off and found that it was nonrepairable and had to leave the RAS basement feed water off to isolate the bad hydrant. We will need to replace the hydrant so we can get the permanent water feed to the RAS basement back in service.

SAFETY

 We conducted our monthly Safety Meeting on Back Injury Protection, Vehicle Backing Safety: General Vehicle Backing & Slips/Trips/Falls on the 14th of March.

REGULATORY AGENCY, INSPECTION AND REPORT

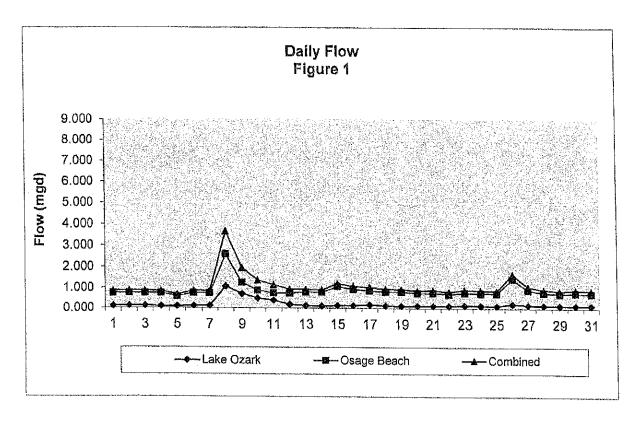
We filled out the new EDMR on the EPA MoGEM website on the 9th of April.

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF March 2024

DATE			FL	ow			ВС	OD 5 MC	G/L	Ţ	/L	
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% ОВ	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/i
1-Mar	0	0.104	0.746	0.850	12.2	87.8	285	255	365	228	156	460
2-Mar	0	0.117	0.756	0.873	13,4	86.6						
3-Mar	0	0.117	0.747	0.864	13.5	86.5			-		····	
4-Mar	0	0.101	0.745	0.846	11.9	88.1					7.040 m/2	
5-Mar	0.5	0.088	0.573	0.661	13.3	86.7						
6-Mar	0	0.110	0.745	0.855	12.9	87,1		***				
7-Mar	0.5	0.116	0.729	0.845	13.7	86.3	298	270	313	244	220	354
8-Mar	2.0	1.076	2.589	3,665	29.4	70.6			(man), 40°, 11			
9-Mar	0	0.703	1.256	1.959	35.9	64.1			**************************************			
10-Mar	0	0.493	0.881	1.374	35.9	64.1		***************************************			***	
l I-Mar	0	0.398	0.757	1.155	34.5	65.5		·				
12-Mar	0	0.195	0.745	0.940	20.7	79.3						
13-Mar	0.25	0.124	0.809	0.933	13.3	86.7						
14-Mar	0.3	0.114	0.793	0.907	12.6	87.4	225	243	220	126	208	276
15-Mar	0	0.135	1.069	1.204	11.2	88.8		_				
16-Mar	0	0.137	0.937	1.074	12.8	87.2					-	
17-Mar	0	0.174	0.864	1.038		83.2						T
18-Mar	j o	0.127	0.818	0.945		86.6				1		
19-Mar	0	0.113	0.814	0.927		87.8						
20-Mar	0	0.110	0.751	0.86		87.2						
21-Mar	0	0.121	0.765	0.886		86.3						
22-Mar	0	0.110	0.705	0.81		86.5	313	245	23	0 242	192	2 340
23-Mar	0	0,140	0.766	0.90		84.5						
24-Mar	0	0.137	0.745	0.88		84.5						
25-Mar	0,2	0.122	0.732	0.85		85.7						
26-Mar	1.1	0.217	1.451	1.66		87.0						
27-Mar	0	0.166	0.902			84.5						
28-Mar	0	0.141	0.780			84.7						
29-Mar	0	0.134	0.733			84.5		3 170	0 22	3 10	8 13	4 24
30-Mar	0	0.138	0.769			84.8						
31-Mar	0	0.136	0.734	0.87	0 15.6	84.4		<u> </u>		1		
SUM	5.1	6.214	27.206	33.420								
AVG		0.200	0.878	1.078	19	81	259	237	270	190	182	336



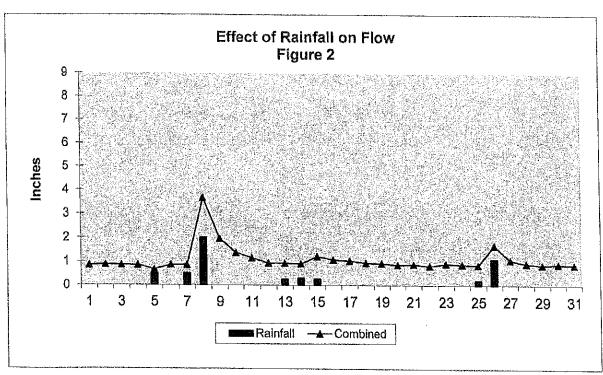
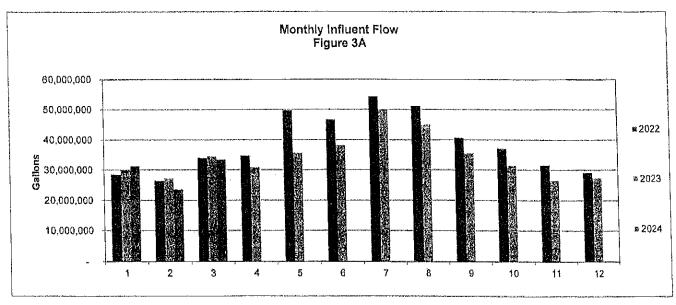
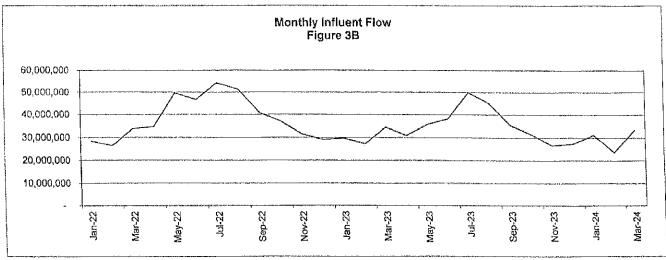
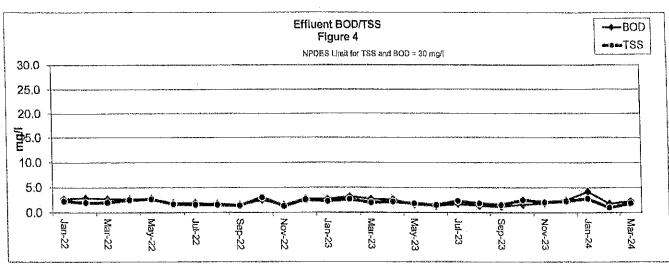


TABLE B JOINT SEWER BOARD Monthly Flows

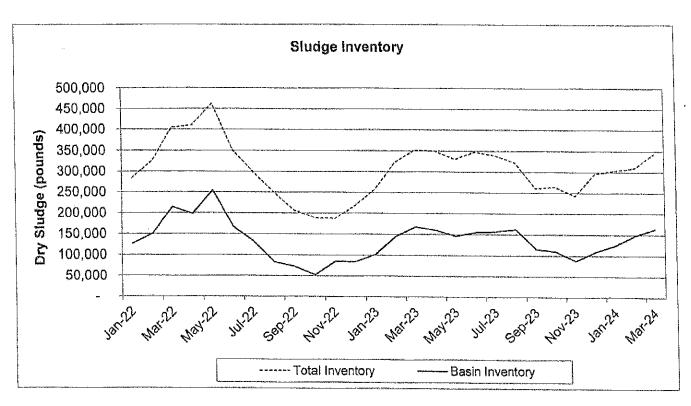
2022	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	1.7	23,599,000 83%	4,824,000 17%	28,423,000 100%
February	3.8	21,853,000 83%	4,610,000 17%	26,463,000 100%
March	5.2	28,266,000 83%	5,657,000 17%	33,923,000 100%
April	6.3	28,580,000 82%	6,088,000 18%	34,668,000 100%
May	9.1	41,076,000 83%	8,597,000 17%	49,673,000 100%
June	3.3	39,125,000 84%	7,563,000 16%	46,688,000 100%
July	2.6	45,728,000 84%	8,591,000 16%	54,319,000 100%
August	6.8	42,549,000 83%	8,716,000 17%	51,265,000 100%
September	2.4	34,238,000 84%	6,499,000 16%	40,737,000 100%
October	5.2	31,814,000 86%	5,317,000 14%	37,131,000 100%
November	4,5	26,905,000 85%	4,739,000 15%	31,644,000 100%
December	1.9	24,749,000 85%	4,376,000 15%	29,125,000 100%
	52.7	388,482,000 84%	75,577,000 16%	464,059,000 100%
2023	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	2.8	25,972,000 87%	3,812,000 13%	29,784,000 100%
February	3.9	23,448,000 86%	3,820,000 14%	27,268,000 100%
March	6.2	29,920,000 87%	4,559,000 13%	34,479,000 100%
April	1.3	26,903,000 87%	4,085,000 13%	30,988,000 100%
May	2.1	29,783,000 83%	5,950,000 17%	35,733,000 100%
June	0.9	32,155,000 84%	* * *.	38,195,000 100%
July	7.1	42,263,000 85%		49,941,000 100%
August	8.3	37,375,000 83%		45,039,000 100%
September	2.5	29,574,000 83%		35,491,000 100%
October	3.2	26,468,000 84%		31,535,000 100%
November	1.0	22,375,000 84%	• •	26,657,000 100%
December	3.4	23,026,000 84%	4,445,000 16%	27,471,000 100%
	42.7	349,262,000 85%	63,319,000 15%	412,581,000 100%
2024	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	4.8	26,487,000 85%	4,806,000 15%	31,293,000 100%
February	1.1	20,148,000 85%	6 3,491,000 15%	23,639,000 100%
March	5.1	27,206,000 819	6,214,000 19%	33,420,000 100%
April May June				
July August September October November December				
	11.0	73,841,000 84	% 14,511,000 16%	88,352,000 100%

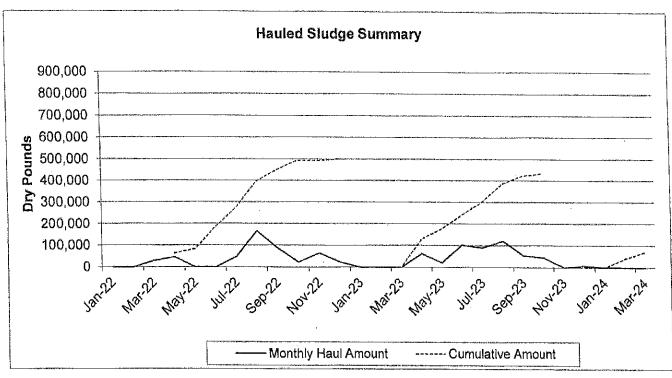






									,		Rtar	nket Depths	····	MLSS Inve	entory	Blanket and M	LSS inventory	MLSS	Total Dry	Accepted	
			Haujed	Sludge		<u>Bas</u>	in Depth	<u>\$</u>		#Drv	Clarf #1		Clart #3 M	LSS AB #1 M		Gallons	# Dry	% Solids	Słudge inventory	Loads	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry				asin Gallons	126,664	1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,800	13	27,000
Jan-22	0	-	Ü	4,5%		4.5	3.0	0.0	337,500	150,120	4.0	1.5	0.0	5,280	5,030	3,697,691	174,393	0.0057	324,513	32	68,000
Feb-22	ō	-	C	4.0%		7.0	3.0	0.0	450,000	214,672	9.0	10.0	0.0	5.870	5,760	3,937,478	190,464	0.0058	405,135	23	48,000
Mar-22	Ö	-	Ü	4.4%		6.0	7.0	0.0	585,000	198,255	1D.0	10.0	1.0	7,100	5,600	3,998,658	211,765	0.0064	410,021	52	124,500
Apr-22	47	169,200	62,120	4.4%	62,120	7.0	5.0	0.0	540,000	254,503	2.0	10.0	1.0	6,290	6,630	3,656,572	207,778	0.0065	452,281	37	85,000
May-22	16	57,600	21,017	4.4%	83,137	8.5	7.0	0,0	697,500	167,049	4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297	42	93,500
Jun-22	84	302,400	102,052	4.0%	185,189	7:0	4.0	0.0	495,000	132,051	8.0	3.0	1.5	4.740	5,860	3,860,524	166,295	0,0052	298,348	33	68,500
Jul-22	80	288,000	88,961	3.7%	274,150	7.0	2.5	0.0	427,500	83,629	1.5	1.0	0.5	5,490	5,420	3,666,119	165,789	0,0055	250,418	168	300,000
Aug-22	108	386,800	120,426	3.7%	394,576	2.0	4.0	0.0	270,000	72,893	1,0	1.0	0.5	4,650	4,180	3,657,238	134,359	0.0044	207,251	75	168,000
Sep-22	51	183,600	54,073	3.5%	448,549	3,5	2.0	0.0	247,500	52,863	0.5	0.5	0.5	4,590	4,390	3,639,476	136,286	0.0045	189,149	33	71,000
Oct-22	42	151,200	44,405	3.5%	493,054	1.0	3.0	0.0	180,000	52,663 85,381	1.0	1.0	0,0	4,330	2,340	3,635,524	101,573	0.0034	186,954	38	69,500
Nov-22	0	-	Ò	3.5%	493,054	4.0	2.5	0.0	292,500	84,722	1.5	1.5	0.0	4,510	4,270	3,653,286	133,756	0.0044	218,478	33	71,509
Dec-22	В	28,800	7,746	3.2%	500,800	4,0	3.0	0,0	315,000		1.0	1.0	0.0	4,880	5,380	3,635,524	155,543	0.0051	257,525	35	74,500
Jan-23	Ö		Ò	3.2%		5.0	3,5	0.0	382,500	102,082 144,115	2.0	2.0	0,0	6,060	5,570	3,671,048	177,882	0,0058	321,997	-38	87,500
Feb-23	Ö	_	0	3,2%	-	6.5	5,5	0.0	540,000		1.0	2.0	1.0	5,310	6,640	3,696,714	184,213	0,0060	352,347	50	115,500
Mar-23	ñ	-	D	3.2%	-	7.0	7.0	0.0	630,000	168,134	1.0	1.0	1.0	6,200	6,170	3,678,952	189,771	0.0062	350,138	82	171,500
Арг-23	116	417,000	129,223	3,7%	129,223	7.5	4.0	0.0	517,500	160,367	0.5	9.0	0.5	5,120	6,530	3,790,453	184,142	0.0058	330,226	49	102,500
May-23	48	172,800	46,747	3,2%	175,970	6.0	6,0	0,0	540,000	146,084	1.5	4.0	0.5	6,020	6,440	3,719,405	193,254	0,0062	348,207	59	131,500
Jun-23	.58	209,800	65,362	3.8%	241,332	6.0	5.0	0.0	495,000	154,953	2.0	3.5	0.5	6,030	5,710	3,719,405	182,086	0.0059	339,287	61	120,500
Jul-23	51	183,500	56,307	3,8%	299,639	6.0	5.0	0,0	495,000	157,200	1.0	1.0	0,5	5,600	4,910	3,657,238	160,285	0,0053	322,658	27	65,500
Aug-23	74	266,400	83,587	3.8%	383,226	7.0	4.5	0.0	517,500	162,373	1.0	1,0	0.5	4,780	4,750	3,657,238	145,339	0.0046	260,842	B4	164,000
Sep-23	34	122,400	39,271	3,8%	422,497	7.5	0,5	0.0	360,000	115,503	0,5	0.5	0.5	4,530	5,660	3,639,476	154,650	0,0051	264,426	40	85,500
Oct-23	9.5	34,200	11,124	3.9%	433,621	7:5	0.0	0.0	337,500	109,776	2.0	2.0	0.5	4,550	5,540	3,692,762	155,374	0.0050	243,194	30	59,000
Nov-23	0.0	•	0	3.9%		3.0	3,0	0.0	270,000	87,820	1.0	3.0	0.0	5,730	6.450	3,671,046	186,455	0.0061	296,230	29	77,000
Dec-23	ñ	_	0	3.9%	-	4,5	3,0	0.0	337,500	109,775	1.0	5.0	0.0	5,470	6.100	3,706,572	178,831	0.0058	303,243	23	43,000
Jan-24	ñ	~	0	3.9%	-	5.5	3.0	0.0	382,500	124,412	0.5	1.0	0.0	5,120	5,530	3,626,643	161,061	0.0053	310,041	21	40,000
Feb-24	36	129,600	40,863	3,8%	40,853	7.0	3.5	0.0	472,500	148,980	4.0	5.0	0.0	5,950	5.540	3,759,858	180,304	0.0058	343,786	21	51,500
Mar-24	25	90,000	29,724	4.0%	70,587	7.0	4.0	0,0	495,000	163,482	4.0	3.0	0.0	5,504	-,	-, -,					
14191-574	20	50,000	,																		



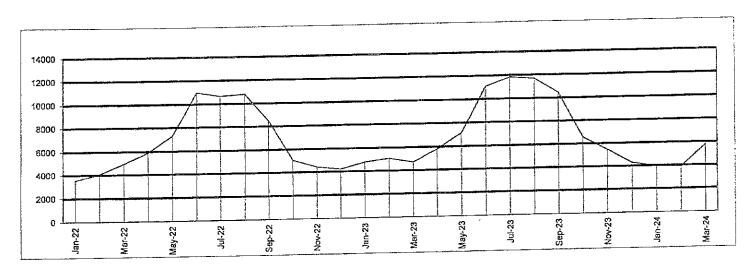


Lake Ozark/Osage Beach WWTP Phosphorus Removal

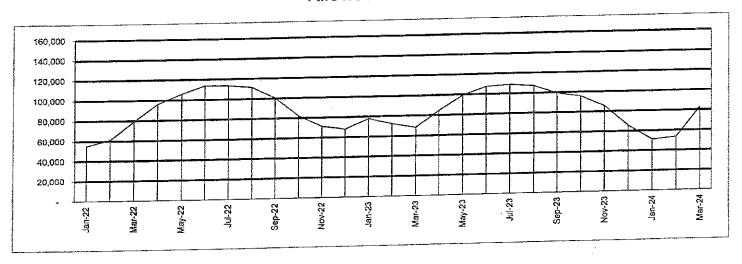
	Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L
Jan-22	4.8	1.9	Jan-23	4.9	2.7	Jan-24	5,3	3.3
Feb-22	4.6	1.7	Feb-23	5.9	3.0	Feb-24	5.3	2.8
Mar-22	4.9	2.9	Mar-23	5.1	2.9	Mar-24	4.5	3.5
Apr-22	4.7	2.9	Apr-23	6,0	3.2	Apr-24		
May-22	4.4	2.8	May-23	5.6	1.9	May-24		
Jun-22	4.4	3.7	Jun-23	6.2	2.8	Jun-24		
Jul-22	6.2	2.8	Jul-23	7.2	0.6	Jul-24		
Aug-22	3.5	1.0	Aug-23	4.7	0.6	Aug-24		
Sep-22	5.3	4.5	Sep-23	5.0	4.6	Sep-24		
Oct-22	6.1	6.8	Oct-23	7.0	6.6	Oct-24		
Nov-22	4.8	3.6	Nov-23	7.6	5.4	Nov-24		
Dec-22	4.8	2.8	Dec-23	5,9	3.6	Dec-24		
Avg.	4.9	3.1	Avg.	5.9	3.2	Avg.	5.0	3.2

-	Electric Cost	Kilowatts Used
Jan-22	3547	55,070
Feb-22	4063	61,330
Маг-22	4979	79,050
Apr-22	5907	96,160
May-22	72 9 2	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470
Oct-22	5071	82,030
Nov-22	4451	71,240
Dec-22	4224	68,000
Jan-23	4809	77,980
Feb-23	5074	72,420
Mar-23	4730	68,320
Apr-23	5801	84,440
May-23	7128	99,300
Jun-23	11076	107,520
Jul-23	11845	109,070
Aug-23	11697	107,330
Sep-23	10438	99,140
Oct-23	6553	96,000
Nov-23	5474	85,570
Dec-23	4293	65,618
Jan-24	3972	51,236
Feb-24	3925	53,460
Mar-24	5786	82,859

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

		NAME	OF FA	CILITY					LOCATI	ON ADDRE	SS & CIT	Υ	(COUNTY/	REGION
	Lake of	the Oza	irks Re	gional WW	TP #1				#3	Anderson				Miller/S	WRO
MONTH	- 1		F	PERMIT NU			DUTFALL N					EATMENT			ļ
Mar-	24	INFLUI	ENT	MO-0103	241		#00	1	Oxli	dation Ditci LUENT	h/UV/Stud	ige Holdin	g-sludge i	s land ap % Rem	
				Ammonia		***	I I			Ammonia		E. coll		T	
DATE	pH UNITS	mg/L	TSS mg/L	as N mg/l	TEMP °C	FLOW MGD	pH UNITS	mg/L	TSS mg/L	as N mg/l	DO mg/L	#/100 ML	°C	mg/L	TSS mg/L
1	6.9	365	460		12.0	1.137	7.6	2.1	1.3		10.0		11.5	99.4	99.7
2	7.0				11.4	1,122	7.6		<u> </u>		10.2		10.2		
3	7.0				13.5	1.123	8.1				9.5		13.1		
4	6.8				15.3	1.093	8,0				9.3		15.6		
5	6.8			28.1	14.3	1.119	7.6			0.11	9.1		13.7		
6	6.9				14.7	1.133	7.4				9.0		14.2		
7	6.8	313	354		14.2	1.124	7.6	2.6	1,8		9,9	ļ	13.6	99.2	99.5
8	6.9				14.3	3.392	7.6				9.7		14.2		
9	6.9				13.7	1.784	7.3		,		9.9		13.2		
10	7.2				12.1	1.303	7.4				10.2		12.8		************
11	6.8				12.8	1.141	7.5				10.4		12.2		
12	6.9				13.6	1.103	7.3				10.1		13.1		
13	6.8			25.6	14.6	1.189	7.4			0.09	9.8		13.8		
14	6.9	220	276		14.8	1.185	7.9	2.1	2.1		9.6	-	15:4	99.0	99.2
15	7.0				14.4	1.654	7.6				9.1		14.9		
16	6.9				13.3	1.265	7.6				10.1		13.7		
17	6.9				13.4	1.241	7.6		<u> </u>		10.2		13.4		
18	7.0				12.4	1,146	7.6				10.8	-	12.3		
19	7,1				13.3	1.110	7.9				10,4		12.1	 -	
20	7.1			22,9	14.1	1.015	8.0	-		0.03	10,3		13.0		
21	7.0				14.2	1.155	7.7	 		-	10.6		13.0	 	
22	7.1	230	346		14.4	1.048	8.0	2.4	2.3		10.1		13.4	99.0	99.3
23	6.9			ļ	13.4	1.109	7.7				10.5		12.7	33,0	00.0
24	6.9	-			14.1	1.089	7.4				10.3		13.3		
25	6.7		 	-	15,5	1.049	7.9		-		9.8				ļ <u>.</u>
26	7.0	-	1		14.1	1.953	8.0	-	-		10.1	_	14.4	 	-
27	6.8			21.2	13.3	1.290				0.03	10.4		12.9	ļ	
28	6.9				12.9	1.171	8.0	+		0.03	10.4		12.3		
29	6.9	223	242	-	14.4	1.175		2.3	2.2			- -	11.9	 	
30	6,8	1	-72	1	15.2	1,060		2.3	1 4.2		10.3		13.2	99.0	99.
31	6.8	1	 	 	14.3	1.102			 	 	10,0	_	14.7	-	
	0.0						7.2			10 (4.00)	9.8	e dayanası	15.4	0 No. 400	10 24/213555
Total		168		100			THE PARTY OF THE PARTY.	(6)							
Avg		2/0	330		13.8	1.277					10.0	0,0	13.3	99.1	99.
Min	6.7	220			11.4	1.015		2.1			9,0	0.0	10.2	99.0	99.
Max	7.2	365	460	28.1	15.5	3.392	8,1	2.6	2.3	0.11	10.8	0.0	15.6	99.4	99.

1	MONTHLY EFF	MONITO	RING	QUA	RTERLY EFF I	MONITORIN	lG	MONTHL	Y INF M	ONITORING
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium	Selenium mg/L	Hardness mg/L	Phosphorus mg/i.	TKN mg/L	Nitrite+Nitrate mg/L
1										
2										
3						Į				
4									l	
5	3.53	1.08	< 0.030		NOR - UP NOR A DESCRIPTION OF CONTROLS AND PROPERTY.	an indicate the city of the control of the city and city of the ci		4,53	37,6	< 0.030
6							<u> </u>	·		
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12					NO. 1801-2-11-11-11-11-11-11-11-11-11-11-11-11-					
13	EAL 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -									
14						<u> </u>		TO THE OWNER OF THE OWNER		
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16				<u> </u>				****		
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21	(m)((1)))							T. William Co. T.		
22						T/61		THE BUILDING ALCOHOL		7575
23		- XAL				**************************************				
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26										THE ACCOUNTS OF
27										
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29				- mrama a						mae
30						~~~				
31	AND DESCRIPTION OF THE PARTY OF			TA PROTECTION OF STREET	Nova Manny Constitution	V-2-02-0-1	Term Manager			
Total	3.53	1.08	≠ ₹0.030					4/59		in the Connection
Avg	3.53	1.08	< 0.030					4,53	37,	1
Min	3.53	1.08	< 0.030					4.53	37.0	
Max	3.53	1.08	< 0.030					4.53	37.	

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

	SLUDGE			sin, O-Dito				sin, O-Dito		*Weath		
	DISP.		MIXED	LIQUOR			MIXED	LIQUOR		Outside		4110113
	LBS. DRY	* DO	** MLSS	*Settle		* DO	** MLSS	*Settlea	ability	* Ambient	*RAIN	Time
DATE	WEIGHT			*30 min	Temp °C		اً ا	*30 mln	Temp	Temp	1	
Mar-24		mg/l	mg/i	mi		mg/l	mg/l	ml	°C	٥F	inches	
1		1.6	5,710	800	11.7	1.9	5,180	780	11.9	43	0	7:30
2		2,1	5,750	840	10.9	1.9	5,480	820	11.0	35	0	7:30
3		2.1	5,400	700	13.2	2.0	5,950	800	13.1	56	0	7:30
4	ļ., ,	1.7	4,520	550	15.6	1.4	5,930	810	15.2	58	0	7:30
5		1.7	5,230	650	15.4	1.5	5,570	780	15.1	54	0.50	7:30
6		1.7	5,710	750	14.8	1.6	5,160	740	14.5	50	0	7:30
7	<u> </u>	1.3	5,790	750	13.9	1.4	5,230	740	14.1	50	0.50	7:30
8		1.9	4,650	450	14.2	1.8	4,920	600	14.3	54	2.0	7:30
9	<u> </u>	2.1	4,670	590	13.2	2.0	5,060	700	13.4	40	0	7:30
10		2.2	4,710	590	12.2	2.4	4,930	700	12.4	34	0	7:30
11		1.6	5,290	670	12.7	1.8	4,880	700	12.7	36	0	7:30
12	6,845	1.6	5,600	680	13.0	1.5	5,020	650	13.2	43	0	7:30
13		1.3	5,650	720	14.5	1.4	5,540	700	14.5	54	0.25	7:30
14	<u> </u>	1.0	5,700	740	15.3	1.1	5,120	720	15.5	61	0.30	7:30
15		1.6	4,720	720	15.1	1.3	6,200	800	15.1	53	0.25	7:30
16		1.5	4,900	750	13,9	1.6	5,970	800	13.9	40	0	7:30
17		1.5	5,460	700	13.6	1.4	6,180	830	13.7	41	0	7:30
18		1.7	5,430	770	12.0	1.6	6,230	880	12.4	33	0	7:30
19		2.4	6,040		12.3	2.5	5,970	860	12.6	35	0	7:30
20	9,367	3.2	6,130	800	12.9	3.6	5,700	750	13.2	41	0	7:30
21	7,206		5,880	780	13.2	1.3	5,630	790	13.5	42	0	7:30
22	6,305		5,980		13.1	2.0	5,540	830	13.6	42	0	7:30
23	·	1.7	5,730		13.0	2.2	6,110	750	13.5	40	0	7:30
24		1.7	5,800		13.4	1.5	6,130	850	13.5	46	0	7:30
25		1.4	5,470		14.3	1.0	5,750	720	15,5	56	0.20	7:30
26		1.1	5,810		12.8	1.2	6,360	830	13.2	39	1.1	7:30
27		3.4	6,010		12.2	3.8	6,670	880	12.4	36	0	7:30
28		4.0	5,700		12.6	3.7	6,490	860	13	36	0	7:30
29		3.1	6,080		13.2	3.5	6,430	850	13.3	43	0	7:30
30		3,4	6,590	830	14.8	4.5	5,880	780	14.8	63	0	7:30
31 COMMENT		2.6	5,960	810	15.6	3.9	5,540	690	15.5	60	0	7:30

T1070 DESCRIPTION	2		
TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	Low Hours all	(573)365-0455	4/9/2024
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Day/ Sulethraf X	(573)365-0455	4/9/2024
*Required Daily	(Monday - Friday)		**Required 1/week

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Central Field Operations P O Box 176 Jefferson City, MO, 65102

Permit Number	Outfall Number
MQ0103241	M100
Monitori	ng Period
3/1/24	3/31/24
NODI:	****

Parameters	Re	porting Requirement	nts	Unit	Reporting l	Requirements	Unit
low, in conduit or thru reatment plant	****	******	****	****	3.392	1,277	Mgal/d
vion. Location.: End of Pipe	******	承要依案师▲神 单单柱书	*************************************	Ţ	Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured							
Frequency: Daily		1					
BOD, 5-day, 20 deg. C	****	2.6	2.3	mg/L	****	****	****
Mon, Location.: End of Pipe	*****	Weekly Avg.:45	Monthly Avg.:30		****	****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	****	2,3	1.9	mg/L	****	****	****
Mon. Location.: End of Pipe	****	Weekly Avg.:45	Monthly Avg.:30		****	****	<u> </u>
Sample Type: 24 Hour Composite	E de la company						
Frequency: Weekly	N.					K	
Phosphorus, total (as P)	3.53	***	3.53	mg/L	****	****	****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required	A TANAN AND AND AND AND AND AND AND AND AND	*****	*****	
Sample Type: 24 Hour Composite				Santa and an	7 7 7 7 11 11 11 11		
Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	1.08	****	1.08	mg/L	李书孝 **	****	****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	****	Monthly Avg.:Monitoring Required		****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	<0.030	****	<0.030	mg/L	****	****	***
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, ammonia total (as N)	0.11	*****	0.07	mg/L	****	****	****
Mon. Location.: End of Pipe	Daily Max.:12.1	*****	Monthly Avg.:3.1		****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly			Ï	į			

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Central Field Operations P O Box 176 Jefferson City, MO, 65102

рH	7.3	****	8.1	SU	****	****	****
Mon. Location.: End of Pipe	Minimum:6.0	*****	Maximum:9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly		34 \$ 3 1				[f]	
BOD, 5-day, percent removal	****	在各本本本	99,0	%	****	本本本本中	****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg. Min.:85		******	*****	
Sample Type: Calculated							
Frequency: Monthly		The same of the sa					
Suspended Solids, percent removal	****	****	99.1	%	****	***	****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg. Min.:85		**********	*****	
Sample Type: Calculated	77						
Frequency: Monthly	Ï	Ï	Ï	H	ii e	EL N	1

Comments:

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Central Field Operations P O Box 176 Jefferson City, MO, 65102

Permit Number	Outfall Number			
MO0103241	INFIM			
Monitor	ng Period			
3/1/24	3/31/24			
NODI:	****			

Parameters	Re	porting Requirem	ents	Unit	Reporting	Unit		
3OD, 5-day, 20 deg. C	****	准备老水妆	270	mg/L	****	****	****	
don. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	林歌家歌歌·李水帝亦		
Sample Type: 24 Hour Composite	1							
requency: Monthly								
l'otal Suspended Solids (TSS)	*****	****	336	mg/L	****	非非电池者	****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	****		
Sample Type: 24 Hour Composite								
Frequency: Monthly						1 1	2	
Nitrogen, ammonia total (as N)	28.1	****	24.5	mg/L	****	*****	****	
Mon. Location.; Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Phosphorus, total (as P)	4.53	***	4.53	mg/L	****	****	****	
Mon, Location.: Influent	Daily Max.::Monitoring Required	*****	Monthly Avg.:Monitoring Required		****	*****		
Sample Type: 24 Hour Composite						(ž		
Frequency: Monthly						15 		
Nitrogen, Kjeldahl, total (as N)	37.6	****	37.6	mg/L	****	****	****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required	7	*****	*************************************		
Sample Type: 24 Hour Composite								
Frequency: Monthly						E C		
Nitrite plus nitrate total (as N)	<0.030	****	<0.030	mg/L	****	****	***	
Mon, Location.: Influent	Daily Max.:Monitoring Required	半辛未辛辛 .	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly						1		

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Central Field Operations P O Box 176 Jefferson City, MO, 65102

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 property 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.

eSignature Gary Hutcheraft Submission Date April 9, 2024 User Phone Number (573)365-0455

MARCH 2024

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MAMA			PEARL INFILI	ew.	2.	¥.	I		DAT SERVICE	A SE	Ŷ.	P P	y.c.#	1	P.S.	g :		1 3 F	_	Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Marchine Mar	ndyed ndyed ndyedzi Gen	70.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	Spires	d and	t Ca	F. P.	in Colorado (il n. Social	A CHEALAIT Sentenge	Company	10000	N.PH Safane Marykadi Marykadi	î	Seg.	10 mg
SAIT Pent	September 1	Bank Spirit	# # # # # # # # # # # # # # # # # # #	Tal-tal	Security Security	ASSNER Overly	A STATE OF THE STA	# ji.	N.C. CEL	PECTIALE Serve TRANSLATUR Serves To	Hardward Har jell Hardward	radical celes	žŽ ≅	2.5	grand SCH4 SCH4	district of the second	-			1372	ās Sa	1.137 756	- 1 - 1	19.0	11.5	£2	- <u>F</u> 2	8*1	=	** E-	 	365		\exists
-	_ 		28 156	460		- 	7.1	6,931 12.0	R	0 4	5,710	899	140 7 5	비교		7532	151 7			LA	60 60	1.122 7.55		10.2	10.2	1		1			1.068 8	ديه.		
1 MORE	- (1,00)	255 365 2	28 156	1400		_		6.96 11.4	c	0 3	5 5,750	540	146 7.	0 2		X38		.08 1.5	1,0	1,0	9,0	1.123 808		9.3	13.1			1 1			6.922 6	830		
2 179	10,000			1 1				6.95 13.5	c	0 5	5,460		130 7.1		5,950	28.69	134 7		1.9	1,0	9.0	1.0500 799		9.3	156			- 1			0.843	940	15,000	3,730
3 197				1-1			_	6.87 15.3	c	0 5	4,520	550	122 7.0	95 1.5		X101	137 7				9,0			9.1 0.11		3.33	108 - 00	3			4 956 B	715	-	
1 10					28.1		37.6 : 030	682 [4]	0	0.50 3	5.730	650	124 7.3	1 <u>.7</u>	5,570	750		05 t.			9.0	1,119 7.58			14,2	1					1,006	910	- 1	
5 MRUI	0.088 0.573 0.661				28.1	4.35	33.0 54.033	6.86 14.7		a 3	3.710	750	131 73	g (1.5	5,260	740	143 7	18 L	2.0		1	1,153 737		10:0	1	+ 1		1 1			4	215	1	
6 MRO	FF 0,110 0.245 0.855			1 -					1	0.50 5	570	750	130 7.2	1 13	3 5,235	748	141 7	.19	1.57	Ľ,ťi	ψtΩ	1,124 7,5%	26 13	9.9	23.5			1-1	一十		1	915		
7 MR/I	FU 0.116 6.739 0.845 298	270 313 2	44 220	354				5.84 14.7	1	2 5	1 4.650		97 7.1	3 1.5	4,920	600	121 7	3) 1.1	7.0	7.0	Q.Q	1.392 7.56		9,7	343	1		+ +	- i -			640		
8 MR/3	FF 1.076 2.589 3.665							6.88 44.3			4 670		116 7.0	2	5,060	TQG	138 7	.05 25	1.5	[,5	9.0	1,784 7.25		4.0	13.2			+	-			963		
9 MR/C	GE 0,703 1,216 1,950				ļ_			6.94 13.7			4 4 710		125 7,5	 -	3	780	142 7	.23 24	0,5	6.5	9.0	1,303 7,43		10.2	128			+-+			1	710		
to MRA	GI 0.493 -0.881 1.374							7.24 17.1	c	- d: 3	5.299	1	127 7.3	F		700	143 6	92 IJ	0.5	2.5	5,0	1.141 7.51		10.4	12.2	J						380		\dashv
11 MR/C	GE 0.398 0.757 LJ55		<u></u>					6.R4 12.8	1	oi 3	3 5,600		121 7.0		1	650	129 7	Ot L	1.0	0.5	a.o	1.103 7.27		19.1	13.18		-	1-					- 1	
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The Joint Sewer Board of the Cities Of Lake Ozark and Osage Beach

New Service Area Connections Policy¹

Adopted: April 19, 2011 Latest Revision: November 18, 2013

Inquiries about new connections, through the City of Lake Ozark please call the City Administrator for the City of Lake Ozark at 573-365-5378.

Inquiries about new connections, through the City of Osage Beach please call the City Administrator for the City of Osage Beach at 573-302-2000

Welcome to the Lake of the Ozarks!

The Joint Sewer Board of the cities of Lake Ozark and Osage Beach encourages environmentally responsible new development in the lake region and takes seriously its obligation to operate the plant in a responsible and professional manner and to balance that obligation with its desire to see the lake region as a whole, continue to develop and prosper. We have adopted this Policy as a guide for new developers outside either city, who seek to connect to the plant either through a city or directly. We encourage developers to call us directly at the beginning of the process so we can move forward in a cooperative and mutually beneficial manner.

For any new connection through a City that will create a flow in excess of 20,000 gallons per day the City will notify the Joint Sewer Board at the next monthly meeting. At the end of each year, each City will report to the Joint Sewer Board all its new connections to facilitate an accurate forecast of usage and capacity.

Overview of the Process

- 1. A simultaneous application is submitted by the applicant to the City through which connection is proposed, and to the Joint Sewer Board.
- 2. Staff will review the Application and determine whether the Application is complete and whether the proposed project is eligible under the policy.

¹ Important Notice and Disclaimer This policy is adopted by The Joint Sewer Board of the Cities of Lake Ozark and Osage Beach to assist developers in the consideration of whether a prospective project outside the boundaries of either city is eligible for connection to the Joint Sewer Board's Waste Water Treatment Plant. The Joint Sewer Board reserves the right to reject any project or to waive any non-conformance to these policies.

- 3. Staff confirms to the Joint Sewer Board that the application meets the requirement of this policy and any individual requirements of the individual city through which the new connection is proposed.
- 4. The individual city through which the new connection is made approves the agreement by ordinance.
 - 5. The Joint Sewer Board considers approval of the proposed agreement.

IOINT SEWER BOARD CORE VALUES

These are the core values of the Joint Sewer Board in the operation of the plant and consideration of the addition of new users to the system.

- 1. Protect the plant infrastructure
- 2. Preserve adequate cash flow to operate and maintain the plant
- 3. Protect and serve the existing customers efficiently
- 4. Service future development within each city
- 5. Contribute to lake water quality efforts by safely and completely treating all acceptable effluent in the Lake of the Ozarks region.

Application Overview

1. APPLICATION:

Submission. Not less than five (5) copies of the completed Application should be submitted to the City Administrator.

Preliminary Determination of Completeness. The Application is reviewed by City staff to determine if it is complete. If the Application is determined to be incomplete by City staff or if additional information is needed the applicant will be notified that the Application is not complete, and asked to supply such additional information as may be required, for engineering, financial, legal or planning and development concerns.

2. STAFF REVIEW:

The City's departments of Engineering, Public Works, Finance, Law, Planning and Administration will conduct a review of the Application and, when deemed appropriate, seek a review by other professionals as the city may require.

Prior to making a recommendation to the Joint Sewer Board, the City staff may require an independent feasibility study by an expert of the City's choosing. The Applicant shall pay the cost of such study.

Applications which are determined to be incomplete or do not conform to this policy or the City's policy will not be considered by the Joint Sewer Board. Applicants are responsible for monitoring the status of their applications.

3. BOARD OF ALDERMEN:

The Board of Aldermen for each City may, in its discretion, convene a study session on the Application or hold a public hearing before consideration of an ordinance approving the connection requested in the application. The recommendation of the Joint Sewer Board may be considered, or amended by the Board of Aldermen.

4. JOINT SEWER TREATMENT PLANT BOARD CONSIDERATION:

The Joint Sewer Board may have a study session on the Application and may make a recommendation to the City concerning the application. After the city adopts an ordinance approving a connection, the Joint Sewer Board may consider, approve, deny or recommend amendments to the connection agreement.

POLICY FOR CONNECTION OF NEW SERVICE AREAS TO THE LAKE OZARK / OSAGE BEACH JOINT SEWER TREATMENT PLANT

1. FEE FOR CONNECTION TO THE PLANT

The fee for connection to the plant shall be a one-time, capacity charge based on the anticipated volume of wastewater flows from the applicant's development. The charge rate will be based on the current estimated capacity replacement price expressed in \$/gallon/day of installed treatment plant cost. This fee will be established by the Joint Board at the time of application and will be based on engineering estimates for replacement capacity at the time of approval of the connection agreement. All connection fees shall be paid directly to the Joint Board when the connection agreement is executed.

2. CONNECTIONS THAT CONNECT DIRECTLY TO THE SEWER PLANT

For a dedicated sewer line that reaches the plant directly without connection through the sewerage infrastructure of either city, applicant shall pay monthly fee to the Joint Sewer Board, in addition to No. 1 above, which shall be 1.15 times the outside the city rate for monthly sewage service of the city nearest the development.

3. LIMITATIONS ON NEW DEVELOPMENT / BUILD OUT SCHEDULE

The applicant shall adhere to the limitations in the connection agreement that may restrict or limit new development and construction in the applicant's service area and shall not issue any permits to connect in excess of those listed in the agreement without the express consent of the Joint Sewer Board and the City through which the sewage flows. Any expansion of development beyond the original agreement will result in a purchase of new capacity as may be decided by the Joint board at the time of the expansion.

4. <u>LIMITATIONS OF QUANTITY AND QUALITY OF FLOW</u>

The applicant shall adhere to the limitations and permissions concerning the quantity and quality of the flow sent to the Joint Sewer Treatment Plant as set out in the connection agreement. Applicant shall not issue any permits to connect in excess of those listed in the agreement without the express written consent of the Joint Sewer Board and the City affected. The design and construction of applicant's system shall provide all necessary facilities for equalization of the flow of sewage to level the demand on the capacity of the Joint Sewer Treatment Plant and ensure that the impact of the applicant's system will not exceed the agreed upon flow at any time. This may include holding tanks, equalization basins or other infrastructure built into the applicant's system, necessary to minimize flow from the applicant's system during periods of high demand on the capacity of the plant. The control of this infrastructure, which is part of the applicant's system, must be accessible by the attached city and the Joint Sewer Board or its agents as necessary to assess and confirm the equalization of the flow of sewage.

5. APPROVAL OF DESIGN

The applicant shall adhere to the limitations and permissions for approval of design of applicant's system as set out in the connection agreement

6. REMEDIES

For violation of the agreement which damages the physical plant or creates an "Abnormal Condition²" as detailed in the connection agreement, or influent that

² "Abnormal Condition" means (a) the presence in the influent of substances which cannot be removed or treated by the WWTP, including but not limited to those relating to an interference or pass-through, (b)

exceeds the allowable quantity of flow or quality of influent with regards to BOD, TSS, grease and oil, and/or "Biologically Toxic Substances³" or hazardous wastes, etc. the remedies available to the Joint Board will include any or all of the following:

- i. Physical shutoff of the flow,
- ii. Requirement of applicant to cure problem,
- iii. Financial penalties of 1.25 times cost to Joint Sewer Board to remedy the matter.

7. PLANT OWNERSHIP

Nothing in any agreement may be in any way construed as an ownership interest by applicant or any other entity or any user acting on behalf of applicant or claiming any interest by virtue of connection to or use of applicant's system. Further, any new service area agreement with any applicant may not in any way diminish or abrogate the ownership interests of the Cities of Lake Ozark and Osage Beach. All applicants begin, continue and remain as arms-length customers of the Joint Sewer Board for the life of the connection.

8. INDEMNIFICATION AND HOLD HARMLESS

Applicant, shall at all times beginning with the opening of the connection between the applicant's system and either City sewage system or the Joint Sewer Treatment Plant directly, maintain adequate insurance against any loss (including but not limited to any economic or non-economic and environmental damage) caused by the applicant's system or users to the property of either city or the Joint Sewer Treatment Plant. The Applicant shall indemnify and hold harmless the Joint Sewer Board and the Cities of Lake Ozark and Osage Beach from any and all harm caused by the applicant or its operations, both immediate and

influent which violates applicable laws, (c) a flow or loading of influent which is beyond the WWTP's capacity.

³ "Biologically Toxic Substances" means any substance or combination of substances contained in the influent in sufficiently high concentrations so as to interfere with the biological processes necessary for the removal of the organic and chemical constituents of the wastewater required to meet the discharge required by the NPDES permit. Biologically Toxic Substances include but are not limited to heavy metals, phenols, cyanides, pesticides, and herbicides.

consequential damages, both upstream from the plant and downstream. This obligation shall last for the life of the connection, the cities and the Joint Sewer Board shall be listed as an additional insured on the general/environmental/liability insurance policy or policies of the applicant.

The Joint Sewer Board of the Cities Of Lake Ozark and Osage Beach

APPLICATION FOR CONNECTION FOR SERVICE

	APPLICATION FO	ON COMMECTION I	OK SEKYIC
PROJECT NAM	E:		•
APPLICANT:			
ADDRESS:			
PHONE:			
FAX:			
EMAIL:			
CONTACT PER	SON:		

Application Format: On a separate sheet of paper please answer the following questions. Please type each question prior to the applicable response.

- (1) In no more than three pages provide relevant information on the applicant's background and development experience and financial ability to successfully complete the project. Include resumes of key individuals assigned to the project.
- (2) Identify the applicant's consultants involved or proposed to be involved in the project noting relevant experience on similar projects (i.e., civil engineer, land use planner, applicant's legal counsel, applicant's financial advisor).
- (3) Describe the proposed project, including the size and scope and phasing of the proposed project. Specifically outline residential development, if any, to be included in the project.
- (4) Define the boundaries of the proposed service area by address and locator number(s). Include a map of the proposed service area.
- (5) Identify the property which is currently in the control of the applicant via ownership or option. If the property is under an option contract please note the option expiration date.
- (6) Is the proposed development consistent with all applicable infrastructure, development, or comprehensive plans?
- (7) State the need and justification for this connection.
- (8) Identify sources, amounts, and status of all debt financing and/or equity funding available to complete the project. Does the applicant anticipate the debt will be privately financed by the construction lender or developer or publicly sold?

- (9) Briefly describe the "environmental and quality of life" benefits of the proposed project to the Lake area.
- (10) If the applicant's system is to be managed, administered or maintained by someone other than a direct employee of the applicant, please provide the name qualifications and direct operator's contact information for the individual/vendor responsible for the system.

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