TREATMENT DEPARTMENT STATUS REPORT
July, 2015

	BOD	**TSS**
Faulkner Lake	2.8 mg/L (30 Max.)	3.5 mg/L (30 Max.)
Five Mile	24.2 mg/L (30 Max.)	20.2 mg/L (90 Max.)
White Oak	17.8 mg/L (30 Max.)	24.4 mg/L (90 max.)

Construction project is complete at Faulkner Lake.

Shannon Wayson
Chemist

NLR Waste Water Utility
Maintenance & Repair Department
Work Recap by Ward
July-15

Crews:	Ward 0	Ward 1	Ward 2	Ward 3	Ward 4	Total
MANHOLE:						
Disconnects	0	0	0	0	0	0
Taps	0	0	0	0	0	0
Repairs	3	34	30	30	1	98
# of MH's Grouted	0	17	8	13	0	38
#of Coats						
MH Depth (Ft/In)	0	73.5	12	31.5	0.0	117
# of Bags of Grout	0	25	2.0	9.0	0.0	36
POWER DRIVE:						
# of Ft Cleaned	0	0	0	0	0	0
PWR RODDER #1:						
# of Ft Cleaned	0	0	0	0	0	0
PWR RODDER #2:						
# of Ft Cleaned	0	0	0	0	0	0
REPAIR #1:						
Repairs	2	1	5	1	0	9
New Manholes	0	0	0	0	0	0
New Lines	0	0	0	0	0	0
Disconnects	0	0	0	0	0	0
Taps	0	0	0	0	0	0
Miscellaneous	1	1	0	0	0	2
REPAIR #2:						
Repairs	0	2	5	2	0	9
New Manholes	0	0	0	0	0	0
New Lines	0	0	0	0	0	0
Disconnects	0	0	0	0	0	0
Taps	0	0	0	0	0	0
Miscellaneous	2	1	2	0	0	5

NLR Waste Water Utility
Maintenance & Repair Department
Work Recap by Ward
July-15

Crews:	Ward 0	Ward 1	Ward 2	Ward 3	Ward 4	Total
REPAIR #3:						
Repairs	1	1	5	0	0	7
New Manholes	0	0	2	0	0	2
New Lines	0	0	1	0	0	1
Disconnects	0	0	0	0	0	0
Taps	0	0	0	0	0	0
Miscellaneous	0	0	1	0	0	1
TROUBLE:						
# of Ft Cleaned	160	40	85	0	200	485
Stop-Ups	5	7	7	4	1	24
Private Lines	2	4	6	4	1	17
Cave-Ins	1	1	2	0	0	4
Flooded Houses	0	0	0	0	0	0
Miscellaneous	10	24	30	10	2	76
Total Calls	16	31	39	14	4	104
VACCON #1:						
# of Ft Cleaned	30,312	810	0	238	532	31,892
VACCON #2:						
# of Ft Cleaned	30,264	329	20,378	959	0	51,930
VACCON #3:						
# of Ft Cleaned	0	269	27,304	1,032	5,050	33,655
VACCON #4:						
# of Ft Cleaned	0	0	0	1,863	1,559	3,422
VACCON #5:						
# of Ft Cleaned	0	9,327	20	22,498	6,266	38,111
T V #1						
# of Ft	12,368	460	25	4,038	6,445	23,336
T V #2						
# of Ft	26,502	277	1,181	1,105	0	29,065

North Little Rock Waste Water Utility

2015 Year-To-Date Work Recap Report

Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y T D
MANHOLE:													
Disconnects	0	1	0	0	0	0	0						1
Taps	0	0	0	0	0	0	0						0
Repairs	73	27	16	45	14	61	98						334
# of MH's Grouted	9	22	8	28	15	5	38						125
#of Coats	0		0	0	0								0
MH Depth (Ft/In)	0	1	0	18	53	10	117						199
# of Bags of Grout	9	6	8	16	12	9	36						96
POWER DRIVE:													
# of Ft Cleaned	12,703	9,435	6,508	17,860	13,170	1,429	0						61,105
PWR RODDER #1:													
# of Ft Cleaned	2,511	4,032	0	0	0	599	0						7,142
PWR RODDER #2:													
# of Ft Cleaned	1,855	1,500	1,776	8,929	621	0	0						14,681
REPAIR #1:													
Repairs	3	6	13	16	13	10	9						70
New Manholes	0	0	1	0	0	0	0						1
New Lines	0	0	0	0	0	0	0						0
Disconnects	0	0	0	0	0	0	0						0
Taps	1	1	1	1	0	0	0						4
Miscellaneous	8	12	7	14	14	1	2						58
REPAIR #2:													
Repairs	16	9	16	12	9	14	9						85
New Manholes	0	0	0	0	0	0	0						0
New Lines	0	0	0	0	0	0	0						0
Disconnects	1	1	0	1	0	0	0						3
Taps	0	1	1	0	1	0	0						3
Miscellaneous	3	8	7	9	11	4	5						47

North Little Rock Waste Water Utility

2015 Year-To-Date Work Recap Report

Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y T D
REPAIR #3:													
Repairs	6	12	11	8	5	3	7						52
New Manholes	0	0	2	0	0	0	2						4
New Lines	0	0	0	0	0	0	1						1
Disconnects	0	1	0	0	0	0	0						1
Taps	10	2	1	1	0	0	0						14
Miscellaneous	8	8	3	6	8	3	1						37
TROUBLE:													
# of Ft Cleaned	553	800	3,085	445	638	563	485						6,569
Stop-Ups	42	40	57	27	24	30	24						244
Private Lines	34	24	32	18	17	19	17						161
Cave-Ins	2	0	9	8	9	9	4						41
Flooded Houses	0	0	0	0	0	0	0						0
Miscellaneous	63	38	40	49	59	83	76						408
Total Calls	98	76	105	84	92	122	104						681
VACCON #1:													
# of Ft Cleaned	28,820	22,012	30,109	22,253	39,759	38,822	31,892						213,667
VACCON #2:													
# of Ft Cleaned	13,657	14,635	41,387	54,226	20,785	54,253	51,930						250,873
VACCON #3:													
# of Ft Cleaned	32,241	22,959	35,302	56,498	43,678	47,845	33,655						272,178
VACCON #4:													
# of Ft Cleaned	0	0	0	17,720	19,200	2,369	3,422						42,711
VACCON #5:													
# of Ft Cleaned	0	0	0	0	19,424	41,573	38,111						99,108
T V #1													
# of Ft	18,955	17,466	16,100	23,949	21,743	28,492	23,336						150,041
T V #2													

North Little Rock Waste Water Utility

2015 Year-To-Date Work Recap Report

Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y T D
# of Ft	24,641	10,882	10,305	29,165	20,993	29,593	29,065						154,644

REHABILITATION FUND
EXPENDITURES FOR THE MONTH
ENDED JULY 31, 2015

EXPENDITURES FOR LINE REHABILITATION-REPAIR CREWS	$ 63,745.46
REFUND DUE TO SEWER FUND	$63,745.46

REHABILITATION REPORT-REPAIR CREWS
FOR THE MONTH ENDED JULY 31, 2015

LOCATION	TOTAL	LABOR	MATERIALS	EQUIPMENT	OUTSIDE WORK
WARD #0 LINES					
MISCELLANEOUS	$ 4,060.59	$ 2,068.13	$ 511.57	$ 1,007.14	$ 473.75
TOTAL WARD #0 LINES	**$ 4,060.59**	**$ 2,068.13**	**$ 511.57**	**$ 1,007.14**	**$ 473.75**
WARD #1 LINES					
MISCELLANEOUS	$ 6,085.84	$ 3,338.14	$ 1,122.07	$ 1,625.63	$ -
NORTH CEDAR STREET-R09-01	$ 387.11	$ 130.24	$ 9.09	$ 63.43	$ 184.35
TOTAL WARD #1 LINES	**$ 6,472.95**	**$ 3,468.38**	**$ 1,131.16**	**$ 1,689.06**	**$ 184.35**
WARD #2 LINES					
MISCELLANEOUS	$ 28,960.65	$ 13,116.12	$ 6,774.41	$ 6,387.37	$ 2,682.75
WATER STREET-R15-01	$ 21,321.95	$ 250.52	$ 202.18	$ 122.00	$ 20,747.25
TOTAL WARD #2 LINES	**$ 50,282.60**	**$ 13,366.64**	**$ 6,976.59**	**$ 6,509.37**	**$ 23,430.00**
WARD #3 LINES					
MISCELLANEOUS	$ 2,580.25	$ 1,271.94	$ 311.12	$ 619.42	$ 377.77
NONA STREET-R12-02	$ 60.47	$ -	$ -	$ -	$ 60.47
TOTAL WARD #3 LINES	**$ 2,640.72**	**$ 1,271.94**	**$ 311.12**	**$ 619.42**	**$ 438.24**
WARD #4 LINES					
MISCELLANEOUS	$ 288.60	$ -	$ 288.60	$ -	$ -
TOTAL WARD #4 LINES	**$ 288.60**	**$ -**	**$ 288.60**	**$ -**	**$ -**
TOTAL ALL WARDS	**$ 63,745.46**	**$ 20,175.09**	**$ 9,219.04**	**$ 9,824.99**	**$ 24,526.34**

AGENDA FOR
NORTH LITTLE ROCK WASTEWATER TREATMENT COMMITTEE MEETING

RE:	Committee Meeting
PLACE:	Faulkner Lake Treatment Plant
	7400 Baucum Pike, North Little Rock, Arkansas 72117
DATE:	August 11, 2015
TIME:	12:15 PM

(1) APPROVAL OF THE MINUTES OF THE JULY 14, 2015 MEETING

(2) CASH DISBURSEMENTS FOR JULY 2015

(3) FINANCIAL REPORT FOR JULY 2015

(4) CENTRAL ARKANSAS WATER/MAUMELLE UPDATE

(1)

NEW BUSINESS

ACTION REQUESTED:

Approval of the Minutes of the July 2015 Committee Meeting

NORTH LITTLE ROCK
WASTE WATER TREATMENT COMMITTEE

MINUTES OF A MEETING HELD TUESDAY, JULY 14, 2015

A meeting of the North Little Rock Waste Water Treatment Committee was held on Tuesday, July 14, 2015 at the administrative offices located at the Faulkner Lake Treatment Plant.

The meeting was called to order by Chairman Matthews at approximately 12:14 p.m. Those in attendance at the meeting were: Mr. K.W. Matthews, Mr. Ed Nelson, Mr. Clark McGlothin and Mr. Sylvester Smith. Also in attendance were Mr. Marc Wilkins, Director, Ms. Gina Briley, Mr. Charles Frost, Mr. Lyle Leubner, Mr. Michael Clayton, Mr. Ronnie Thompson, Mr. Graham Rich with Central Arkansas Water, Mr. Sam Hilburn and Mr. Mark Halter with Hilburn, Calhoon, Harper, Pruniski & Calhoun, Ltd. and Dawn Harmon.

Mr. Graham Rich with Arkansas Central Water first addressed the Committee with regard to the City of Maumelle. He informed the Committee that the City of Maumelle had contacted Central Arkansas Water about acquiring their systems. He further stated that CAW was interested in the water system but not the sewer system and since the North Little Rock area abuts the Maumelle service area, Mr. Rich thought it would make sense to contact North Little Rock Waste Water to see if they were interested in Maumelle's wastewater system. The City of Maumelle has approximately 10,000 active accounts. Mr. Rich further stated that the City of Maumelle is under several deadlines to assess all aspects of their systems and should have all their reports in by mid-September 2015. The City of Maumelle's system currently employs approximately thirty-three (33) employees and Mr. Rich stated as part of negotiations, no Maumelle employee would lose their job. Mr. Wilkins added that since he was first contacted by Mr. Rich, he checked into the Maumelle system and they are currently under NO Consent Administrative Orders. After further discussion regarding operation and maintenance, a motion was made by Mr. McGlothin, seconded by Mr. Smith, to authorize Mr. Wilkins and the Utility staff to work with Mr. Rich to further investigate the feasibility of entering into some arrangement to take over the Maumelle sewer system. The motion carried unanimously.

The Committee then reviewed the minutes of its June 9, 2015 meeting. After review, a motion was made by Mr. McGlothin, seconded by Mr. Nelson, to approve the minutes of the June 9, 2015 meeting as submitted. The motion carried unanimously.

Next, the Committee reviewed the voucher disbursements for June 2015. There being no questions or comments, a motion was made by Mr. Nelson, seconded by Mr. Smith, to approve the voucher disbursements for June 2015 reflecting total cash disbursements of $1,468,616.17 and transfers between accounts of $1,356,366.67. The motion carried unanimously.

Upon motion made by Mr. Nelson, seconded by Mr. McGlothin, the Committee

unanimously approved the Financial Statement for June 2015.

Mr. Wilkins then advised the Committee that the recent adoption of Act 186 of 2015 by the Arkansas Legislature amended the Arkansas Freedom of Information Act (FOIA) to exempt from disclosure the personal information of customers of municipally owned utility systems. To comply with the amended FOIA, legal counsel recommends adoption of a customer privacy policy. Mr. Halter explained that the proposed customer privacy policy exempts requests for customer information from non-governmental sources with the following exceptions:

1. The information is contained within aggregated data such that personal information cannot be determined;
2. The account holder has authorized the release;
3. The release is directed by a court of law or officer of the court; or
4. The attorney for the Committee has determined that the release is otherwise required by law.

Mr. Halter then presented a draft of a Resolution to be compatible with actions and notification of the Central Arkansas Water and the City of North Little Rock. After further discussion, a motion was made by Mr. McGlothin, seconded by Mr. Nelson, adopting the Resolution approving a privacy policy for customer records. The motion carried unanimously.

Mr. Wilkins then updated the Committee on the McCain East Rail Grade Separation project which the Mayor asked the Utility to expedite. Bids on this project were received on June 24, 2015. Diamond Construction Company, Inc. of North Little Rock, Arkansas submitted the low bid in the amount of $429,307.00. A copy of the Tabulation of Bids and the engineer's letter of recommendation was provided to the Committee for review. The easements have been acquired for the properties except for those from the City of North Little Rock and the staff is working to get these on the City Council Agenda. A motion was then made by Mr. McGlothin, seconded by Mr. Nelson, to authorize the staff to award the contract for the McCain/Fairfax Sewer Relocation to Diamond Construction Company, Inc. of North Little Rock, Arkansas in the amount of $429,307.00. The motion carried unanimously.

The staff has identified the need to replace four (4) solids handling pumps at the Faulkner Lake WTP. These pumps are identified as:

- Two (2) chopper type centrifugal pumps that move solids and skimmings from primary clarifier #3 to the thickeners, and

- Two (2) progressive cavity type pumps that move sludge from the thickeners to the best filter presses.

All four (4) pumps were originally installed in 1996. Additionally, the 2015 Budget includes $55,000 combined for the replacements of these pumps. A motion was made by Mr. Nelson, seconded by Mr. McGlothin, to authorize the staff to purchase

replacement pumps for the primary clarifier #3 and the best filter press. The motion carried unanimously.

Mr. Wilkins then updated the Committee on the SSO collection system issue with the City of Sherwood. Mr. Wilkins stated he met with ADEQ on June 23, 2015 with two (2) directives in mind; address SSO's and agree on permanent reporting procedures. Mr. Wilkins then met with Sherwood staff on July 1, 2015. At this meeting, the Utilities agreed to exchange records, recommended corrective actions for specific SSO's and discussed reporting options (Maintenance Agreement). There was also discussion with regard to amending the current Court Order. These discussions included North Little Rock Waste Water providing collection system operation and maintenance as well as treatment, SSO's being reported under FMC NPDES permit, North Little Rock Waste Water administering any Consent Agreement Orders (if any) related to SSO's or treatment and rate equal to rates being charged to other North Little Rock customers in Sherwood. Mr. Wilkins added that he would keep the Committee advised as to any further meetings with the staff and Sherwood.

Next, Mr. Wilkins advised the Committee of meetings with FEMA with regard to disaster relief aid. The total costs including those of other City agencies, are $300,000 short of the amount requested to declare Pulaski County a disaster area. The City agencies are going to meet with FEMA again because damages to the hydroelectric plant were not accounted for in the total.

Along, these lines, Mr. Wilkins noted that the damage associated with the Water Street cave in calls for an emergency repair below the water table. A motion was then made by Mr. McGlothin, seconded by Mr. Nelson, to authorize Diamond Construction Company, Inc. of North Little Rock to perform the emergency repair below the water table on Water Street. The motion carried unanimously.

A motion was then made by Mr. McGlothin, seconded by Mr. Nelson, to excuse the absence of Ms. Bryant from the meeting. The motion carried unanimously.

There being no further action to come before the Committee, a motion was made by Mr. Nelson to adjourn the meeting. The motion carried unanimously and the meeting was adjourned at approximately 1:10 p.m.

APPROVED AS TO FORM: RESPECTFULLY SUBMITTED,

K. W. MATTHEWS, CHAIRMAN SYLVESTER SMITH,
VICE-CHAIRMAN/SECRETARY

(2)

CASH DISBURSEMENTS FOR JULY 2015

ACTION REQUESTED:

Approval of the Cash Disbursements for July 2015 showing total
Cash Disbursements of **$1,205,514.49** and
Fund Transfers between accounts of **$1,089,362.16**.

NORTH LITTLE ROCK WASTEWATER UTILITY
CASH DISBURSEMENTS
JULY 31, 2015

CK #	CHECK PAYABLE TO	AMOUNT	DESCRIPTION
36477	AFLAC	$ 1,618.24	SUPPLEMENTAL INSURANCE
36478	ARKANSAS AGGREGATES, INC.	$ 438.65	GRAVEL FOR FAULKNER LAKE TREATMENT PLANT
36479	ARKANSAS WATERGUARD, LLC	$ 155.00	RPZ TESTING FOR WHITE OAK PLANT
36480	ASPHALT PRODUCTS, LLC	$ 1,236.67	COLD MIX FOR 29TH STREET
36481	AT&T	$ 152.31	MONTHLY PHONE BILL FOR FIVE MILE & WHITE OAK PLANT
36482	BARNHART HEAT & AIR, INC.	$ 86.75	SERVICE CALL A/C VENT LEAKING
36483	BATTERY OUTFITTERS	$ 97.22	BATTERIES FOR SURVEY & SSES EQUIPMENT
36484	BILL'S LOCK & SAFE	$ 26.85	DUPLICATE KEYS CUT & TAG RINGS FOR BAY DOORS
36485	BOSTON MUTUAL LIFE INSURANCE CO.	$ 481.57	SUPPLEMENTAL INSURANCE
36486	CINTAS CORP. #650	$ 1,866.78	MONTHLY UNIFORMS & MAT SERVICES AND CLEANING OF MEN'S RESTROOMS IN COLLECTIONS & ENGINEERING BUILDING.
36487	COLONIAL LIFE INSURANCE	$ 119.55	SUPPLEMENTAL INSURANCE
36488	CRIST ENGINEERING	$ 5,519.24	ENGINEERING SERVICES FOR PROJECT CLOSEOUT FOR SHILLCUTT PUMP STATION AND FAULKNER LAKE PHASE 3 IMPROVEMENTS.
36489	DARRELL R. SANSOM	$ 2,773.00	CONSULTING & NETWORKING SERVICES FOR JUNE 2015
36490	ENTERGY	$ 42,609.62	ELECTRIC BILL FOR AUSTIN LAKES, CHAPEL RIDGE, EUREKA GARDENS - 46TH STREET, EUREKA GARDENS - JUDY RD., EUREKA GARDENS ROAD, FRONTIER DRIVE, HILL LAKE, MARCHE, MCALMONT, MIDSTATE, QUAPAW, RIXIE - HWY 161, RIXIE ROAD & TRAMMEL ESTATES PUMP STATIONS. FIVE MILE CREEK # 1, FIVE MILE NORTH & SOUTH BUILDINGS, FIVE MILE INFLUENT PUMP AND FIVE MILE SECURITY GATE.
36491	ENVIRONMENTAL SERVICES CO.	$ 466.00	2ND QUARTER BIO-SOLIDS ANALYSIS FOR FAULKNER LAKE TREATMENT PLANT.
36492	FLEET TIRE SERVICE	$ 909.63	4 NEW TIRES & ONE FLAT REPAIR FOR UNIT # 103 AND ONE FLAT REPAIR FOR TRAILER # 6.
36493	GRAVEL RIDGE SEWER DISTRICT	$ 17,937.06	GRAVEL RIDGE BILLINGS - MAY CYC 9 & END OF MONTH
36494	GREEN & CHAPMAN	$ 52.30	GREASE FOR PUMP MAINTENANCE SHOP
36495	HARCROS CHEMICALS	$ 2,619.44	CHLORINE FOR FIVE MILE & WHITE OAK PLANTS
36496	H.D. SUPPLY WATERWORKS	$ 282.95	O-RINGS & SPLINES FOR INVENTORY
36497	HUM'S HARDWARE	$ 1,568.38	PARTS & SUPPLIES FOR VARIOUS DEPARTMENTS
36498	HUM'S RENTAL	$ 5,190.29	RENTAL OF EXCAVATORS FOR WARD O & WARD 2 AND RENTAL OF TRACKHOE & TRAILER FOR 54" LINE ON RIVER - WARD 2.
36499	JACK TYLER ENGINEERING	$ 362.39	CONTROL PANEL FOR CEDAR STREET - (R09-01)
36500	KEELING COMPANY	$ 80.75	BALL VALVE FOR FAULKNER LAKE CHLORINE BUILDING
36501	L & L MUNICIPAL SUPPLIES	$ 2,516.67	18 PAIRS OF HIP & KNEE BOOTS, 20 DOZEN PAIRS OF DRIVER GLOVES, SAFETY VESTS, MANHOLE HOOKS, SWEAT BANDS AND DUST MASK WITH RESPIRATORS FOR MANHOLE & REPAIR CREWS IN COLLECTION SYSTEMS DEPARTMENT.

NORTH LITTLE ROCK WASTEWATER UTILITY
CASH DISBURSEMENTS
JULY 31, 2015

CK #	CHECK PAYABLE TO	AMOUNT	DESCRIPTION
36502	LIBERTY TRAILER CO.	$ 50.45	SUBMERSIBLE LED LIGHT KIT FOR UTILITY BARGE.
36503	MOORE & ROBINSON, INC.	$ 834.60	4 NEW TIRES FOR UNIT # 119
36504	NORTH LITTLE ROCK ELECTRIC	$ 44,177.50	ELECTRIC BILL FOR BAUCUM INDUSTRIAL PARK, CYPRESS CROSSING, DELTA LAWN, DIXIE, FAULKNER CROSSING, GALLOWAY, HARRIS INDUSTRIAL PARK, HWY 107, I-440 INDUSTRIAL PARK, LAKEWOOD, LANSBROOK, MARYLAND EAST, MARYLAND PLACE, OAKBROOK, PINETREE POINT, SHILLCUTT, SHORTER COLLEGE PUMP STATIONS & WHITE OAK SECURITY GATE. FAULKNER LAKE ADMINISTRATION BLDG., BLOWER BLDG., CS & ENGINEERING BLDG., LAB BLDG., PLANT MAINT. BLDG., SLUDGE LAGOON & TREATMENT PLANT. 3804B, 3812B & 3924B NONA STREET (R12-02).
36505	O'REILLY AUTO PARTS	$ 53.96	OIL FILTER FOR UNIT # 107
36506	PETERSON CONCRETE	$ 309.60	GRADE RINGS FOR 105 PERSHING - WARD 2 AND 3725 HAROLD - WARD 3
36507	PETTUS OFFICE PRODUCTS	$ 94.35	OFFICE SUPPLIES FOR ADMINISTRATION
36508	PITNEY BOWES GLOBAL FINANCIAL	$ 154.47	QUARTERLY RENTAL OF POSTAGE MACHINE
36509	QUALITY PETROLEUM, INC.	$ 62.82	OIL FOR AIR COMPRESSORS
36510	ROBERTS PLUMBING	$ 380.00	REPAIRS TO FAUCET IN COLLECTION SYSTEM RESTROOM AND MOVE ICE MAKER LINE BECAUSE OF REMODELING.
36511	S & W CHEMICAL SALES	$ 782.55	5 CASES OF NITRILE GLOVES FOR OPERATIONS
36512	SEWER DISTRICT # 211	$ 50,399.87	RUNYAN ACRES BILLING - MAY CYC 9 & END OF MONTH & JUN CYC 1
36513	SPA CHEMICALS, INC.	$ 2,547.83	ODOR DIGESTER, SCRUBS-IN-A-BUCKET, TRASH CAN LINERS, THICK-N-SUDSY, BUG SPRAY, WASP & HORNET KILLER, HAND SANITIZER & PAPER PRODUCTS.
36514	SPECIALIZED TIRE SERVICE	$ 174.40	REPAIR 2 FLATS ON BACKHOE #555D6 AND REPLACE SPARE TIRE & SERVICE CALL ON UNIT # 120.
36515	STANLEY HARDWARE	$ 42.32	100' OF ROPE FOR REPAIR CREW # 2.
36516	STATE OF AR. DEPT. OF WORKFORCE	$ 929.00	UNEMPLOYMENT INSURANCE
36517	STUART C. IRBY CO.	$ 598.03	VARIOUS ELECTRICAL SUPPLIES FOR FIVE MILE, TANK ROOM, EFFLUENT BUILDING & PUMP MAINTENANCE TRUCK FOR STOCK AND ELECTRICAL SUPPLIES FOR 512 & 532B WATER STREET - WARD 2 (R15-01).
36518	T & T EQUIPMENT	$ 260.40	55 GALLON DRUM OF PRO-PANEL CARWASH SOAP
36519	TERMINIX	$ 105.25	MONTHLY PEST SERVICE
36520	THE TRADITIONAL BAKERY - PANERA BREAD	$ 102.03	LUNCH FOR RETIREMENT COMMITTEE ON 05/18/15
36521	UTILITY BILLING SERVICES	$ 197.96	WATER BILL FOR DELTA LAWN, DIXIE, FIVE MILE, HELIMAN DRIVE, OAKBROOK, SHILLCUTT, SHORTER COLLEGE AND WHITE OAK.
36522	WATER ENVIRONMENT FEDERATION	$ 246.00	WEF MEMBERSHIP RENEWAL FOR D. RHODES, P. WOOD & E. TOLAND
36523	WEB LUBRICATIONS / JIFFY LUBE	$ 218.56	OIL CHANGE & AIR FILTER FOR UNIT # 86, OIL CHANGE FOR UNIT # 102 AND OIL CHANGE & TIRE ROTATION FOR UNIT # 115.

NORTH LITTLE ROCK WASTEWATER UTILITY
CASH DISBURSEMENTS
JULY 31, 2015

CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36524	WILLDAN FINANCIAL SERVICES	$	5,000.00	SERVICES FOR RATE STUDY & LONG TERM FINANCIAL PLAN
36525	WINDSTREAM COMMUNICATIONS	$	1,129.23	MONTHLY PHONE BILL FOR FAULKNER LAKE TREATMENT PLANT.
36526	A-1 RECOVERY	$	103.08	TOWING SERVICE FOR UNIT # 71
36527	APPLIED INDUSTRIAL TECHNOLOGIES	$	171.30	EXPANSION CHAMBERS FOR FAULKNER LAKE BAR SCREEN
36528	ARKANSAS AGGREGATES, INC.	$	1,849.72	GRAVEL FOR FAULKNER LAKE TREATMENT PLANT
36529	ARKANSAS SOD & TURF	$	285.64	SOD FOR WARD 0 AND WARD 1 JOBS
36530	BATTERY OUTFITTERS	$	63.18	6 VOLT & "C" BATTERIES FOR FLOW METERS
36531	BILL'S LOCK & SAFE	$	51.81	2 DEAD BOLTS FOR OLD INVENTORY BUILDING AND 3 STANDARD KEYS
36532	CAPITOL EQUIPMENT	$	181.55	PARTS FOR FAULKNER LAKE LAWN EQUIPMENT
36533	CINTAS CORP. #650	$	135.94	MONTHLY CLEANING OF MEN'S RESTROOMS IN CS & ENG. BLDG.
36534	CITY OF NORTH LITTLE ROCK	$	72,630.20	FRANCHISE FEES COLLECTED IN JUNE
36535	CONEY'S GARAGE DOORS, INC.	$	103.08	SERVICE CALL TO RE-SET THE RAMP DOOR
36536	CONSOLIDATED PIPE & SUPPLY	$	2,943.33	MANHOLE EXTENSION RINGS FOR INVENTORY AND PVC COUPLINGS, CLEANER & BLUE FOR 512 WATER ST. - WARD 2 (R15-01).
36537	CRANFORD CONSTRUCTION	$	681.90	ASPHALT FOR WARD 1 AND WARD 3 JOBS
36538	CROSS STREET SERVICE, INC.	$	3,730.88	TWO EASEMENTS FOR MCCAIN RAIL GRADE SEWER LINE RELOCATION JOB
36538	CROW BURLINGAME # 41	$	157.82	OIL PAN FOR COLLECTION SYSTEMS AND AIR FILTERS & TURN SIGNALS FOR UNIT # 104, #107 AND # 109.
36540	CUMMINS MID-SOUTH, LLC	$	2,897.67	MAINTENANCE AGREEMENTS FOR GENERATORS AT HILL LAKE, HWY 107, HWY 365, GALLOWAY/MAYBELLINE, QUAPAW AND WILCOX PUMP STATIONS AND 2 OIL FILTERS FOR UNIT # 118 GENERATOR.
36541	DATAMAX	$	161.80	MONTHLY MAINTENANCE ON ADMINISTRATION & C.S. & ENGINEERING COPIERS.
36542	DEPT. OF FINANCE & ADMINISTRATION	$	17,789.00	ARKANSAS STATE WITHHOLDING TAXES FOR JUNE 2015
36543	ELECTRIC MOTOR SERVICE, INC.	$	1,391.93	REPAIRS TO 15HP MOTOR FOR FAULKNER LAKE TREATMENT PLANT
36544	ENTERGY	$	147.25	ELECTRIC BILL FOR RIXIE - LUCKY DRIVE PUMP STATION
36545	ENVIRONMENTAL SERVICES CO.	$	7,982.88	LAND APPLICATION DOUGAN SOIL TESTING FOR FAULKNER LAKE LAGOON CLEAN-OUT PROJECT AND 2ND QUARTER PERMIT TESTING.
36546	EUREKA GARDENS FACILITIES BOARD	$	3,477.60	DEBT FEE COLLECTED FOR JUNE - CYC 4
36547	FRANK ELDER WELL SUPPLY	$	19,780.00	TWO WELLS DUG FOR WATER STREET - WARD 2 (R15-01).
36548	GRAVEL RIDGE SEWER DISTRICT	$	20,453.16	BILLED GRAVEL RIDGE ACCOUNTS FOR 06/09/15 AND 06/12/15
36549	H.D. SUPPLY WATERWORKS	$	485.27	CULVERT FOR FIVE MILE TREATMENT PLANT
36550	HENARD UTILITY PRODUCTS	$	891.61	CABLE ASSEMBLY PINS FOR TV-# 1 AND HYDRAULIC MOTOR FOR VAC-CON # 2 EQUIPMENT.
36551	HILTON - FT. WORTH	$	1,344.54	HOTEL RESERVATIONS FOR REGION IV PRE-TREATMENT CONFERENCE FOR 3 EMPLOYEES.
36552	HUM'S HARDWARE	$	250.00	PARTS & SUPPLIES FOR VARIOUS DEPARTMENTS

NORTH LITTLE ROCK WASTEWATER UTILITY
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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36553	JACK TYLER ENGINEERING	$	184.35	E-1 PUMP REPAIR FOR CEDAR STREET (R09-01)
36554	JACKSON CLEANING SERVICE	$	1,198.80	JANITORIAL SERVICES FOR ADMINISTRATION, C.S. & ENGINEERING & LAB BUILDINGS.
36555	JIM'S CRANE RENTAL SERVICE	$	460.00	CRANE RENTAL FOR FIVE MILE TO PULL AERATOR
36556	JOE CARTER TOOLS	$	208.28	MAXIFL PALM COAT & NITRILE GLOVES & 5 RED RATCHETS FOR COLLECTION SYSTEMS.
36557	JOE'S GARAGE & WRECKER SERVICE	$	863.21	FUEL TANK SENDER, TURN SIGNAL FLASHER & SWITCH FOR UNIT # 21
36558	KEELING COMPANY	$	27.62	VALVE BOXES & PVC PIPE CUTTER FOR REPAIR CREW # 1
36559	LOWE'S	$	172.91	SHIELDS FOR TRENCH BOX AND HANDSAW FOR FIVE MILE.
36560	MILLIMAN, INC.	$	2,800.00	TWO RENEWAL OF ACCESS TO GASB 45 & GASB 43 TOOLS FOR VALUATION REPORT FOR ANNUAL AUDIT.
36561	NORTHSIDE SALES CO.	$	221.67	WASP & HORNET KILLER FOR FIVE MILE & WHITE OAK PLANTS, 4' X 100' OF ROLL FENCE FOR REPAIR CREW # 2 AND CALIBRATION FLOW ADAPTER PART FOR GAS DETECTOR.
36562	PENTECOSTAL CHURCH OF GOD	$	1,312.05	EASEMENT FOR MCCAIN RAIL GRADE SEWER LINE RELOCATION JOB
36563	PETTUS OFFICE PRODUCTS	$	42.24	OFFICE SUPPLIES FOR ADMINISTRATION
36564	REGION VI PRE-TREATMENT ASSOCIATION	$	405.00	REGISTRATION FOR CONFERENCE FOR 3 EMPLOYEES
36565	REGIONS CORPORATE TRUST	$	2,030.50	RIXIE DEBT FEE COLLECTED IN JUNE
36566	RJN GROUP, INC.	$	27,787.09	PROFESSIONAL SERVICES FOR 2015 SSES
36567	SCOTT AUTOMOTIVE CENTER	$	125.74	THERMOSTAT, RADIATOR CAP & FLUSH COOLING SYSTEM FOR UNIT # 71.
36568	SCOTT PRODUCTS	$	379.14	WEED KILLER FOR FAULKNER LAKE, FIVE MILE & WHITE OAK PLANTS
36569	SEWER DISTRICT # 211	$	245.50	BILLED RUNYAN ACRES ACCOUNTS FOR 06/09/15
36570	SONNY FULMER TRUCKING	$	632.24	GRAVEL HAULING SERVICES
36571	STANLEY HARDWARE	$	10.58	PARTS TO REPAIR SERVICE LINE AT 62 DESOTO CIRCLE - WARD 1
36572	STAR BOLT & SCREW CO.	$	7.74	CAP SCREWS, LOCKNUTS & WASHERS FOR VAC-CON # 2 CREW
36573	TRACTOR SUPPLY CO.	$	53.47	COMMERCIAL SPRAY GUN & ADAPTER FOR FIVE MILE
36574	TRI-STATE TRUCK CENTER	$	644.80	CLUTCH REPAIR FOR UNIT # 113
36575	USA BLUEBOOK	$	587.68	LAB SUPPLIES FOR TESTING AT ALL 3 PLANTS & INDUSTRIES
36576	UTILITY BILLING SERVICES	$	978.30	WATER BILL FOR FAULKNER LAKE TREATMENT PLANT & LAB BUILDING
36577	WASTE MANAGEMENT	$	14,644.95	MONTHLY BIO-SOLIDS REMOVAL FOR JUNE
36578	WELSCO	$	18.01	MONTHLY CYLINDER RENTAL FOR COLLECTION SYSTEMS.
36579	AMERIPRISE FINANCIAL SERVICES	$	95.00	EMPLOYEE CONTRIBUTIONS FOR PAY PERIOD ENDING 07/12/2015
36580	UNITED WAY	$	45.00	UNITED WAY CONTRIBUTIONS - PAY PERIOD ENDING 07/12/2015
36581	OCSE CLEARINGHOUSE SDU	$	368.00	CHILD SUPPORT PAYMENTS FOR PAY PERIOD ENDING 07/12/2015
36582	MARC WILKINS	$	161.00	PER DIEM FOR 2015 AWWMA ANNUAL CONFERENCE
36583	MICHAEL CLAYTON	$	161.00	PER DIEM FOR 2015 AWWMA ANNUAL CONFERENCE
AFC-14	ARKANSAS FEDERAL CREDIT UNION	$	6,356.31	EMPLOYEE CONTRIBUTIONS FOR PAY PERIOD ENDING 07/12/2015

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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
NAT-14	NATIONWIDE RETIREMENT SOLUTIONS	$	3,264.12	RETIREMENT CONTRIBUTIONS - PAY PERIOD ENDING 07/12/2015
PR-14	PAYROLL TAX DEPOSIT	$	36,459.30	PAYROLL TAXES FOR PAY PERIOD ENDING 07/12/2015
36584	APPLIED INDUSTRIAL TECHNOLOGIES	$	209.17	BEARINGS FOR MAIN SECURITY GATE AT FAULKNER LAKE
36585	ARKANSAS AGGREGATES, INC.	$	805.49	GRAVEL FOR FAULKNER LAKE TREATMENT PLANT
36586	ARKANSAS ONE-CALL SYSTEM	$	276.45	JULY MEMBER FEE AND JUNE CALL FEES
36587	AT&T	$	637.70	T-1 LINE SERVICES FROM BAUCUM TO MAIN & MAIN TO CAPITAL
36588	CENTERPOINT ENERGY	$	14.71	GAS BILL FOR 701 W. 29TH STREET
36589	CHANGE…CENTER FOR HEALTH & VITALITY	$	2,868.38	WELLNESS CLINIC SERVICES FOR AUGUST 2015
36590	CRIST ENGINEERING	$	1,247.81	ENGINEERING SERVICES FOR SHILLCUTT PUMP STATION
36591	CROW BURLINGAME # 41	$	90.85	3 OIL FILTERS FOR UNIT # 122
36592	CROW BURLINGAME # 53	$	45.57	AIR HOSE FOR UNIT # 111
36593	CUMMINS MID-SOUTH, LLC	$	1,399.65	MAINTENANCE AGREEMENTS FOR GENERATORS AT COUNT MASSIE, FRONTIER DRIVE AND TRAMMEL ESTATES PUMP STATIONS.
36594	EMD MILLIPORE CORP.	$	202.90	CALIBRATION OF AIR BATH FOR FECAL TESTING IN LAB
36595	ENTERGY	$	20,750.13	ELECTRIC BILL FOR BRIDGEWAY, COLLINS INDUSTRIAL PARK, COUNT MASSIE, CRYSTAL BAY, HWY 365 AND MAUMELLE PUMP STATIONS. WHITE OAK STRUCTURE, LAGOONS AND TREATMENT PLANT.
36596	EUREKA GARDENS FACILITIES BOARD	$	432.00	DEBT FEE COLLECTED FOR JUNE - CYC 7
36597	FIRST ELECTRIC COOPERATIVE	$	176.75	ELECTRIC BILL FOR GAP CREEK PUMP STATION
36598	FISER TRACTOR	$	196.09	TWO TRACTOR TIRES FOR FAULKNER LAKE LAWN EQUIPMENT
36599	FLEETMATICS, USA	$	15.17	VEHICLE TRACKING SERVICES FOR PARTIAL MONTH FOR ADDED UNIT.
36600	GRAVEL RIDGE SEWER DISTRICT	$	491.40	BILLED GRAVEL RIDGE ACCOUNTS FOR 06/18/15
36601	H.D. SUPPLY WATERWORKS	$	301.88	PVC PIPE, CEMENT & COUPLINGS FOR WATER STREET (R15-01)
36602	HENARD UTILITY PRODUCTS	$	309.05	BALL VALVES FOR EQUIPMENT ON UNIT # 104
36603	HOME DEPOT	$	238.20	SHRUBS, LANDSCAPE SUPPLIES & MULCH FOR OPERATIONS BLDG.
36604	ICM, INC.	$	378.67	SHOVELS & ASPHALT BITS FOR COLLECTION SYSTEMS CREWS
36605	INTERSTATE TIRE	$	37.80	REPAIR FLATS ON UNIT # 77 AND UNIT # 115
36606	JACK TYLER ENGINEERING	$	1,983.81	CONTROLLER FOR FAULKNER LAKE RECYCLE LIFT STATION
36607	JASON'S DELI	$	105.47	LUNCH FOR COMMITTEE MEETING ON 7/14/15
36608	JOE'S GARAGE & WRECKER SERVICE	$	237.58	REPLACE EVAPORATIVE CANISTER SOLENOID AND OIL CHANGE ON UNIT # 103.
36609	KERR PAPER & SUPPLY CO.	$	573.17	PAPER PRODUCTS FOR LAB AND PUMP MAINTENANCE
36610	L & L MUNICIPAL SUPPLIES	$	947.74	"CLOSED AHEAD" ROAD SIGNS, PROBE RODS, POINT STICK, DUCT TAPE & PVC SAW FOR COLLECTION SYSTEMS CREWS AND PARTS & SUPPLIES FOR ENGINEERING, SURVEY & SSES CREWS.
36611	METTLER TOLEDO	$	386.22	BALANCELINK UPGRADE FOR LAB SOFTWARE.
36612	MR. FIRST AID	$	950.78	FIRST AID SUPPLIES FOR COLLECTION SYSTEMS, LAB, OPERATIONS AND PUMP MAINTENANCE DEPTS.

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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36613	NLR WELDING SUPPLY, INC.	$	107.89	MONTHLY CYLINDER RENTAL FOR FAULKNER LAKE, FIVE MILE AND WHITE OAK PLANTS.
36614	NORTHSIDE SALES CO.	$	92.88	SAFETY GLASSES FOR COLLECTION SYSTEMS CREWS
36615	PETERSON CONCRETE	$	384.32	CONE & RISERS FOR 2800 CLOVER - WARD 2
36616	PETTUS OFFICE PRODUCTS	$	713.69	OFFICE SUPPLIES FOR BILLING, COLLECTION SYSTEMS AND ENGINEERING DEPTS.
36617	PURVIS INDUSTRIES	$	69.72	BEARINGS FOR MAIN SECURITY GATE AT FAULKNER LAKE
36618	RGA	$	15.74	HOSE GASKETS FOR 3" & 4" PUMPS FOR PUMP MAINTENANCE DEPT.
36619	RP POWER	$	404.16	SERVICES FOR FIVE MILE EFFLUENT STATION GENERATOR
36620	SEWER DISTRICT # 211	$	324.00	BILLED RUNYAN ACRES ACCOUNTS FOR 06/18/15
36621	SONNY FULMER TRUCKING	$	454.67	GRAVEL HAULING SERVICES
36622	UNDERCAR	$	396.43	BRAKE REPAIR ON UNIT # 83
36623	USA BLUEBOOK	$	831.64	SUPPLIES FOR PROCESS LAB AND NEW CHLORINE ALARM FOR FAULKNER LAKE PLANT.
36624	WINDSTREAM	$	57.77	MONTHLY FAX LINE BILL FOR BILLING DEPT.
36625	XTREME IMAGING, INC.	$	158.20	PRINT BOOKLETS FOR LAKEWOOD BASIN PIPE BURSTING
36626	YARBROUGH CABLE SERVICE	$	192.57	CLAMPS FOR WHITE OAK CABLE REPAIR AND PUMP MAINTENANCE STOCK.
36627	VOID CHECK	$	-	VOID - CHECK ALIGNMENT
36628	AMERICAN COMPOSTING, INC.	$	1,884.51	GREASE REMOVAL FROM FAULKNER LAKE TREATMENT PLANT
36629	AMERICAN VAN EQUIPMENT, INC.	$	44.79	CAULK TUBE SPRAY CAN TRAY FOR UNIT # 82
36630	APPLIED INDUSTRIAL TECHNOLOGIES	$	68.97	PARTS FOR FAULKNER LAKE BLOWER BUILDING FANS
36631	ARKANSAS AGGREGATES, INC.	$	585.22	GRAVEL FOR FAULKNER LAKE TREATMENT PLANT
36632	ARKANSAS COPIER CENTER	$	26.16	MONTHLY MAINTENANCE FOR LAB COPIER
36633	ARKANSAS DEPARTMENT OF HEALTH	$	50.00	ANNUAL PLUMBING INSPECTOR FEES FOR M. BATTIE & G. PRATER
36634	ARKANSAS WATERGUARD, LLC	$	80.00	ANNUAL RPZ TEST FOR DELTA LAWN PUMP STATION
36635	AT&T MOBILITY	$	155.66	MONTHLY INTERNET BILL FOR FIVE MILE & WHITE OAK AND DATA SERVICES FOR SURVEY EQUIPMENT.
36636	B. R. MCGINTY MECHANICAL	$	238.70	MAINTENANCE SERVICE FOR ALL 3 AIR CONDITIONERS IN THE ADMINISTRATION BUILDING.
36637	CARLTON-BATES CO.	$	694.47	TIMERS FOR FIVE MILE EFFLUENT LAGOON AERATOR
36638	CHH, INC.	$	475.00	ON-LINE SUBSCRIPTION RENEWAL FOR APA BASIC GUIDE TO PAYROLL.
36639	CENTRAL ARKANSAS WATER	$	32,289.90	BILLING SERVICE FEES FOR MAY
36640	CENTURY FENCE CO.	$	4,735.00	CHAIN LINK FENCE FOR FAULKNER LAKE PLANT
36641	COLONIAL LIFE INSURANCE	$	119.55	SUPPLEMENTAL INSURANCE
36642	CROW BURLINGAME # 41	$	28.48	AIR CHUCK & GAUGE FOR UNIT # 122
36643	CROW BURLINGAME # 53	$	7.48	HOSE SPLICERS, CLAMPS & FUEL LINE FOR SPRAYMATE

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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36644	ENVIRONMENTAL SERVICES CO.	$	126.90	MONTHLY WATER TESTING FOR FAULKNER LAKE, FIVE MILE & WHITE OAK
36645	FLEETMATICS, USA	$	490.00	MONTHLY VEHICLE TRACKING SERVICE
36646	FUELMAN	$	11,031.45	FUEL PURCHASES FOR JUNE 2015
36647	GREEN & CHAPMAN	$	784.98	EQUIPMENT OIL FOR PUMP MAINTENANCE AND DIESEL FUEL FOR HILL LAKE PUMP STATION GENERATOR.
36648	HACH COMPANY	$	2,377.31	2 JACK BAR TOOLS FOR SSES FLOW METERS AND COD VIALS FOR LAB TESTING.
36649	HARCROS CHEMICALS	$	1,309.04	CHLORINE FOR FAULKNER LAKE TREATMENT PLANT
36650	H.D. SUPPLY WATERWORKS	$	412.41	FAST PLUGS FOR MANHOLE CREWS
36651	HENARD UTILITY PRODUCTS	$	641.42	RELIEF VALVE FOR EQUIPMENT ON UNIT # 107
36652	HI-SPEED INDUSTRIAL SERVICE	$	542.50	EMERGENCY REPAIRS FOR FIVE MILE CRANE
36653	HILBURN, CALHOON, HARPER, PRUNSKI	$	3,207.50	LEGAL SERVICES FOR SPECIAL PROJECTS, 2015 RATE ORDINANCE AND GENERAL RETAINER.
36654	IBC, LLC OF ARKANSAS	$	1,972.00	CONCRETE REPAIR TO FAULKNER LAKE LAGOON STRUCTURES AND REPLACED THICKENER #3 INFLUENT VALVE.
36655	ICM, INC.	$	1,772.89	NEW SEWAGE MACHINE WITH WHEELS-CRIMPS VAC-CON HOSE
36656	INTERSTATE TIRE	$	54.00	1 USED TIRE FOR UNIT # 120
36657	KEELING COMPANY	$	30.62	PARTS FOR FIVE MILE CHLORINE PUMP
36658	KERR PAPER & SUPPLY CO.	$	34.00	BALANCE DUE ON INVOICE FOR TRASH BAGS
36659	L & L MUNICIPAL SUPPLIES	$	1,011.22	7 CASES OF SQWINCHER FAST PACKS AND 8 DOZEN PAIRS OF LEATHER DRIVER GLOVES FOR COLLECTION SYSTEMS CREWS.
36660	MARC WILKINS	$	827.05	REIMBURSEMENT FOR TRAVEL & HOTEL EXPENSE FOR THE AWWMA ANNUAL CONFERENCE IN BRANSON, MO.
36661	MICHAEL CLAYTON	$	843.57	REIMBURSEMENT FOR TRAVEL & HOTEL EXPENSE FOR THE AWWMA ANNUAL CONFERENCE IN BRANSON, MO. AND 2 MANUALS ON COLLECTION SYSTEMS CERTIFICATION PROGRAM.
36662	MUNICIPAL H20	$	550.00	MONTHLY RISK MANAGEMENT PROGRAM FOR ALL 3 PLANTS
36663	NETGAIN TECHNOLOGIES	$	406.88	RENEWAL OF BARRACUDA E-MAIL SECURITY SERVICE FOR ONE YEAR
36664	NORTH LITTLE ROCK ELECTRIC	$	337.00	ELECTRIC BILL FOR WILCOX PUMP STATION
36665	OVERBEY, STRIGEL, BODY & WESTBROOK	$	2,850.00	LEGAL SERVICES FOR DEFINED BENEFIT PENSION PLAN
36666	TED STEARNS	$	350.00	REIMBURSEMENT FOR STREET CUT PERMIT
36667	PETTUS OFFICE PRODUCTS	$	1,290.88	OFFICE SUPPLIES FOR COLLECTION SYSTEMS, ENGINEERING, LAB AND PRE-TREATMENT DEPTS.
36668	POLYTEC, INC.	$	6,825.59	POLYMER FOR FAULKNER LAKE BELT PRESS
36669	ROGER G. TIPTON	$	743.14	EASEMENT FOR MACARTHUR/PARKWAY RE-LOCATION JOB

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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36670	SPA CHEMICALS, INC.	$	1,401.42	ODOR DIGESTER FOR FAULKNER LAKE BELT PRESS, AND CLEANING SUPPLIES & PAPER PRODUCTS FOR COLLECTION SYSTEMS & OPERATIONS.
36671	TC PRINT SOLUTIONS	$	1,437.56	55,000 GREASE MAILERS-TO BE PUT WITH WATER/SEWER BILLS
36672	WEB LUBRICATIONS / JIFFY LUBE	$	71.01	OIL CHANGE FOR UNIT # 119
36673	AMERIPRISE FINANCIAL SERVICES	$	95.00	EMPLOYEE CONTRIBUTIONS FOR PAY PERIOD ENDING 07/26/2015
36674	UNITED WAY	$	45.00	UNITED WAY CONTRIBUTIONS - PAY PERIOD ENDING 07/26/2015
36675	VOID CHECK	$	-	CHECK SKIPPED
36676	OCSE CLEARINGHOUSE SDU	$	368.00	CHILD SUPPORT PAYMENTS FOR PAY PERIOD ENDING 07/26/2015
NAT-15	NATIONWIDE RETIREMENT SOLUTIONS	$	3,239.12	RETIREMENT CONTRIBUTIONS - PAY PERIOD ENDING 07/26/2015
AFC-15	ARKANSAS FEDERAL CREDIT UNION	$	6,356.31	EMPLOYEE CONTRIBUTIONS FOR PAY PERIOD ENDING 07/26/2015
PR-15	PAYROLL TAX DEPOSIT	$	37,871.12	PAYROLL TAXES FOR PAY PERIOD ENDING 07/26/2015
36677	AFLAC	$	1,618.24	SUPPLEMENTAL INSURANCE
36678	AMERICAN VAN EQUIPMENT, INC.	$	57.72	BINDER FOR VAC-CON - UNIT # 122 TO KEEP BOOKS/INFORMATION IN
36679	ARKANSAS AGGREGATES, INC.	$	437.05	GRAVEL FOR FAULKNER LAKE TREATMENT PLANT
36680	CABOT FLORIST, INC.	$	75.90	FLOWERS FOR EMPLOYEE M. CLAYTON - GRANDMOTHER PASSED AWAY
36681	CENTERPOINT ENERGY	$	645.04	GAS BILL FOR FAULKNER LAKE TREATMENT PLANT & LAB BUILDING
36682	CHRIS LUMPKIN	$	196.00	PER DIEM FOR 2015 PRE-TREATMENT CONFERENCE
36683	COMPOSITECH FILTERS	$	1,013.19	PARTS FOR FAULKNER LAKE BELT PRESS
36684	CONEY'S GARAGE DOORS, INC.	$	17,016.71	VAC-CON BAY DOORS, WIDEN OPENING & FINISH CONCRETE AND 9 GARAGE DOORS FOR COLLECTION SYSTEMS.
36685	CONNECTING POINT	$	978.77	NEW WORKSTATION FOR OPERATIONS AND REPLACE VIDEO CARD & HARD DRIVE ON SCADA COMPUTER.
36686	CONSOLIDATED PIPE & SUPPLY	$	343.24	MANHOLE EXTENSION RINGS FOR INVENTORY
36687	ED TOLAND	$	196.00	PER DIEM FOR 2015 PRE-TREATMENT CONFERENCE
36688	ENTERGY	$	6,741.19	ELECTRIC BILL FOR AUSTIN LAKES, CHAPEL RIDGE, CLAYTON CHAPEL, EUREKA GARDENS - 46TH STREET, EUREKA GARDENS - JUDY RD., EUREKA GARDENS ROAD, FRONTIER DRIVE, HILL LAKE, MARCHE, MCALMONT, MIDSTATE, QUAPAW, RIXIE - HWY 161, & TRAMMEL ESTATES PUMP STATIONS, FIVE MILE SECURITY GATE AND WHITE OAK BAR SCREEN.
36689	EXPRESS OIL CHANGE	$	40.56	OIL CHANGE FOR UNIT # 108
36690	GRAINGER	$	125.07	OPS INDUSTRIAL LABEL TAPE CARTRIDGE
36691	GRAVEL RIDGE SEWER DISTRICT	$	17,761.19	BILLED GRAVEL RIDGE ACCOUNTS FOR 06/26/15 AND END OF MONTH
36692	GREEN & CHAPMAN	$	1,067.89	ULTRA RED LOW SULFUR DIESEL FUEL & DIESEL CONDITIONERS FOR FAULKNER LAKE FUEL TANKS.
36693	HACH COMPANY	$	104.32	DESICCANT FOR FLOW METERS

NORTH LITTLE ROCK WASTEWATER UTILITY
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CK #	CHECK PAYABLE TO		AMOUNT	DESCRIPTION
36694	H.D. SUPPLY WATERWORKS	$	1,890.30	20 MANHOLE LIDS FOR INVENTORY AND VALVE & GASKET KIT TO REPAIR LEAK AT FAULKNER LAKE FINAL CLARIFIERS
36695	HENARD UTILITY PRODUCTS	$	1,389.16	GREASE PUMP FOR EQUIPMENT ON UNIT # 104
36696	IBC, LLC OF ARKANSAS	$	997.00	ANCHOR & BOLT TOGETHER GRATING ON FINAL SLUDGE PUMP STATION & LAGOON STRUCTURES.
36697	INTERSTATE TIRE	$	19.44	REPAIR FLATS ON UNIT # 77 AND UNIT # 78
36698	L & L MUNICIPAL SUPPLIES	$	494.76	24 SAFETY VEST FOR COLLECTION SYSTEMS CREWS AND 200 FT OF ORANGE FENCING TO PUT AROUND CONSTRUCTION SITES.
36699	LEGAL SHIELD	$	57.80	PRE-PAID LEGAL SERVICES FOR EMPLOYEES
36700	MITCH FOREMAN	$	196.00	PER DIEM FOR 2015 PRE-TREATMENT CONFERENCE
36701	MUNICIPAL HEALTH BENEFIT FUND	$	61,047.50	HEALTH INSURANCE PREMIUM FOR AUGUST
36702	NORTH LITTLE ROCK ELECTRIC	$	2,219.59	ELECTRIC BILL FOR COLLECTION SYSTEMS & ENGINEERING BUILDING, I-440 INDUSTRIAL PARK AND 512 & 532 WATER STREET - WARD 2 (R15-01)
36703	PATE'S PAINT & BODY SHOP	$	1,264.02	NEW HOOD & GRILL FOR UNIT # 99.
36704	PETTUS OFFICE PRODUCTS	$	79.49	OFFICE SUPPLIES FOR ADMINISTRATION
36705	SEWER DISTRICT # 211	$	50,255.80	BILLED RUNYAN ACRES FOR 06/26/15, END OF MONTH AND 07/06/15
36706	SONNY FULMER TRUCKING	$	358.82	GRAVEL HAULING SERVICES
36707	SPA CHEMICALS, INC.	$	171.41	PAPER PRODUCTS FOR OPERATIONS
36708	STAR BOLT & SCREW CO.	$	58.01	SAND PAPER & SAND DISC FOR PUMP MAINTENANCE SHOP
36709	STUART C. IRBY CO.	$	882.12	LIGHTING & SUPPLIES FOR FIVE MILE CL2 BUILDING
36710	TERMINIX	$	105.25	MONTHLY PEST SERVICE
36711	COMMERCIAL BILLING SERVICE	$	471.00	REPLACE FUEL FILTER & UPDATE SOFTWARE ON UNIT # 104
36712	VERIZON WIRELESS	$	1,972.38	MONTHLY CELL PHONE SERVICE & 2 REPLACEMENT PHONES & CASES.
36713	WADE COMPANY INC.	$	2,111.41	SEMI-ANNUAL PROTECTION MAINTENANCE AGREEMENT FOR LAB
36714	WASTE MANAGEMENT	$	2,935.32	DUMPSTER SERVICES FOR FAULKNER LAKE, PIPE YARD, FIVE MILE, SHILLCUTT, VAC-CONS AND WHITE OAK.
36715	WINDSTREAM COMMUNICATIONS	$	1,129.72	MONTHLY PHONE SERVICES FOR FAULKNER LAKE TREATMENT PLANT
36716	WORK WEAR	$	99.82	SAFETY BOOTS FOR SUMMER HELP - G. SMITH
36717	XTREME IMAGING, INC.	$	8.18	SUBDIVISION PLAT FOR SURVEY
EP-02	PITNEY BOWES	$	800.00	POSTAGE FOR POSTAGE MACHINE

NORTH LITTLE ROCK WASTEWATER UTILITY
CASH DISBURSEMENTS
JULY 31, 2015

CK #	CHECK PAYABLE TO	AMOUNT	DESCRIPTION
	PAYROLL FOR PAY PERIOD ENDED 07/12/15	$ 95,656.48	PAYROLL PAID TO EMPLOYEES ON 07/14/15
	PAYROLL FOR PAY PERIOD ENDED 07/26/15	$ 98,253.09	PAYROLL PAID TO EMPLOYEES ON 07/28/15
		$ 1,008,159.23	
		$ 25.00	MONTHLY FEE FOR ELECTRONIC DEPOSIT OF CREDIT UNION
	ARK. FEDERAL CREDIT UNION		DEDUCTIONS
	ADFA-LOAN PAYMENTS	$ 197,330.26	MONTHLY LOAN PAYMENTS DRAFTED FROM ACCOUNT
	SERIES 2012 ADFA BOND FUND	$ -	TOTAL DISBURSEMENTS FOR ACCOUNT
	TOTAL UTILITY CASH DISBURSEMENTS	**$ 1,205,514.49**	

NORTH LITTLE ROCK WASTEWATER UTILITY
CASH DISBURSEMENTS
SERIES 2012 ADFA BOND FUND
JULY 31, 2015

CK #	CHECK PAYABLE TO	AMOUNT	DESCRIPTION
		$ -	

NORTH LITTLE ROCK WASTE WATER UTILITY
FUND TRANSFERS
JULY 31, 2015

DATE	AMOUNT	TO	FROM	DESCRIPTION
7/1/2015	$ 196,000.00	OPERATIONS	SEWER	TRANSFER FOR CHECKS PAID ON 7/1
7/1/2015	$ 41,666.67	REHABILIATION	SEWER	MONTHLY REQUIRED TRANSFER
7/8/2015	$ 216,200.00	OPERATIONS	SEWER	TRANSFER FOR CHECKS PAID ON 7/8
7/13/2015	$ 95,600.00	OPERATIONS-PAYROLL	SEWER	TRANSFER FOR PAY PERIOD ENDED 7/12, PAID TO EMPLOYEES ON 7/14
7/17/2015	$ 87,400.00	OPERATIONS	SEWER	TRANSFER FOR CHECKS PAID FROM 7/13-7/17
7/22/2015	$ 85,200.00	OPERATIONS	SEWER	TRANSFER FOR CHECKS PAID ON 7/22
7/27/2015	$ 98,200.00	OPERATIONS-PAYROLL	SEWER	TRANSFER FOR PAY PERIOD ENDED 7/26, PAID TO EMPLOYEES ON 7/28
7/31/2015	$ 227,400.00	OPERATIONS	SEWER	TRANSFER FOR CHECKS PAID FROM 7/27-7/31
7/31/2015	$ 41,695.49	SEWER	REHABILIATION	REIMBURSEMENT OF PREVIOUS MONTHS REHABILITATION EXPENDITURES
	$ 1,089,362.16			

(3)

FINANCIAL STATEMENTS FOR JULY 2015

ACTION REQUESTED:

Approve the Financial Statements for July 2015

North Little Rock Waste Water
Balance Sheet
Friday, July 31, 2015

ASSETS	
CURRENT ASSETS	
PETTY CASH	$700.00
CASH IN BANK	$1,937,622.79
CERTIFICATES OF DEPOSIT	$4,638,954.66
ADFA HOLDING ACCOUNTS	$592,018.71
ACCOUNTS RECEIVABLE	$1,929,586.74
ACCRUED INTEREST RECEIVABLE	$9,522.58
ON-SITE INVENTORY	$42,666.41
PREPAID LIABILITY INSURANCE	$42,914.56
PREPAID WORKERS COMPENSATION INSURANCE	$23,891.69
OTHER PREPAID EXPENSES	$25,192.34
PENSION FUND EXCESS	$331,881.00
TOTAL CURRENT ASSETS	$9,574,951.48
PROPERTY, PLANT & EQUIPMENT	
LAND	$3,139,810.46
PUMPING STATION STRUCTURES	$11,609,451.91
SEWER SYSTEM LINES	$51,572,608.68
TREATMENT PLANT STRUCTURES	$46,406,894.13
ADMINISTRATION & MAINT. & ENG. BUILDINGS	$898,017.66
LABORATORY BUILDING	$1,241,501.95
SEWER SYSTEM EQUIPMENT	$8,337,411.51
EST. VALUE OF OLD SEWER LINES	$5,081,361.47
CONSTRUCTION IN PROGRESS	$8,959,970.67
ACCUMULATED DEPRECIATION	($53,666,424.73)
TOTAL PROPERTY, PLANT & EQUIPMENT	$83,580,603.71
OTHER ASSETS	
NOTES RECEIVABLE	$6,204.46
RIXIE OM&R RECEIVABLE	$176,055.20
TOTAL OTHER ASSETS	$182,259.66
TOTAL ASSETS	$93,337,814.85

North Little Rock Waste Water
Balance Sheet
Friday, July 31, 2015

LIABILITIES	
CURRENT LIABILITIES	
ACCOUNTS PAYABLE	$208,739.20
OWED TO OTHER DISTRICTS	$90,017.05
FRANCHISE FEE PAYABLE	$107,143.41
PAYABLE TO RIXIE	$1,624.50
PAYABLE TO EUREKA GARDENS	$3,866.40
ACCRUED SICK LEAVE	$378,695.02
ACCRUED VACATION LEAVE	$198,735.52
ACCRUED EMPLOYEE BENEFITS	($1,501.12)
ACCRUED INTEREST PAYABLE	$284,397.86
ACCRUED PENSION PLAN CONTRIBUTION	$350,000.00
TOTAL CURRENT LIABILITIES	$1,621,717.84
OTHER LIABILITIES	
BONDS PAYABLE-SERIES "A"	$1,382,884.00
BONDS PAYABLE-SERIES "B"	$790,247.15
BONDS PAYABLE-SERIES 2001	$5,299,615.24
BONDS PAYABLE-SERIES 2008	$12,067,652.69
BONDS PAYABLE-SERIES 2012	$13,822,919.00
RESERVE FOR BIO-SOILD DISPOSAL	$1,021,300.00
OPEB OBLIGATION-GASB 45	$107,614.00
TOTAL OTHER LIABILITIES	$34,492,232.08
EQUITY	
CONTRIBUTED CAPITAL	$13,192,510.83
DONATED CAPITAL	$17,727,878.80
RETAINED EARNINGS	$25,111,170.71
CURRENT YEAR NET INCOME / (LOSS)	$1,192,304.59
TOTAL EQUITY	$57,223,864.93
TOTAL LIABILITIES & EQUITY	$93,337,814.85

North Little Rock Waste Water
Income Statement
For the Seven Months Ending Friday, July 31, 2015

	YEAR TO DATE BUDGET	YEAR TO DATE 2015	YEAR TO DATE 2014
REVENUE			
OPERATING REVENUE			
INSIDE NLR SERVICE CHARGES	$6,095,600.00	$6,134,830.40	$6,035,367.21
OUTSIDE NLR SERVICE CHARGES	$1,303,700.00	$1,322,183.91	$1,288,841.82
SHERWOOD TREATMENT CHARGES	$234,500.00	$232,631.00	$196,777.00
CUSTOMER SERVICE CHARGES	$28,800.00	$29,087.04	$28,259.39
SERVICE CHARGE REFUND	$0.00	($5,466.90)	$0.00
INDUSTRY REGULAR CHARGES	$575,400.00	$526,489.60	$568,087.36
INDUSTRY SURCHARGE/PENALTY CHARGES	$59,500.00	$44,956.12	$75,747.77
INDUSTRY LATE FEE CHARGES	$7,000.00	$11,331.14	$6,102.95
LATE FEE CHARGES-RES. & COM.	$147,000.00	$153,470.22	$164,932.51
TIE-ON FEE CHARGES	$0.00	$3,905.71	$36,684.20
CONNECTION INSPECTION PERMITS	$18,200.00	$15,230.00	$18,185.00
PARTIAL INSPECTION PEMITS	$0.00	$675.00	$90.00
TAP & STREET CUTTING PERMITS	$4,900.00	$3,500.00	$4,900.00
REVIEW PLANS & SPECIFICATIONS	$2,100.00	$1,983.16	$2,766.15
TOTAL OPERATING REVENUE	$8,476,700.00	$8,474,806.40	$8,426,741.36
NON OPERATING REVENUE			
INTEREST EARNED INCOME-SECURITES	$8,400.00	$8,197.79	$6,555.37
INTEREST EARNED INCOME-CHECKING	$700.00	$1,961.87	$1,798.05
INTEREST EARNED INCOME-NOTES	$2,800.00	$3,336.35	$3,641.91
DISCOUNTS EARNED	$0.00	$137.99	$180.15
MISCELLANEOUS INCOME	$0.00	$7,473.20	$16,349.19
TOTAL NON-OPERATING REVENUE	$11,900.00	$21,107.20	$28,524.67
TOTAL REVENUE	$8,488,600.00	$8,495,913.60	$8,455,266.03

North Little Rock Waste Water
Income Statement
For the Seven Months Ending Friday, July 31, 2015

	YEAR TO DATE BUDGET	YEAR TO DATE 2015	YEAR TO DATE 2014
OPERATING EXPENSES			
WALKING CREW	$37,100.00	$8,493.62	$0.00
TROUBLE CREW	$81,200.00	$80,401.57	$76,429.57
MANHOLE CREW	$64,400.00	$54,411.63	$57,619.33
POWER DRIVE CREW	$49,000.00	$38,239.02	$51,627.92
TELEVISION CREW #1	$59,500.00	$61,329.92	$68,763.26
TELEVISION CREW #2	$60,200.00	$61,480.74	$57,516.89
COLLECTION SYSTEMS-GENERAL	$605,500.00	$638,383.22	$515,397.09
REPAIR CREW #1	$123,900.00	$106,042.22	$120,970.45
REPAIR CREW #2	$133,000.00	$92,727.36	$92,873.77
REPAIR CREW #3	$128,800.00	$126,281.71	$167,224.10
POWER RODDING CREW #1	$37,800.00	$33,866.84	$37,862.04
POWER RODDING CREW #2	$24,300.00	$12,818.48	$22,312.10
VAC-CON CREW #1	$98,700.00	$96,836.85	$95,513.74
VAC-CON CREW #2	$86,900.00	$92,977.85	$87,203.66
VAC-CON CREW #3	$84,700.00	$79,138.38	$79,940.15
VAC-CON CREW #4	$0.00	$9,245.70	$929.50
VAC-CON CREW #5	$13,500.00	$27,484.74	$0.00
SURVEY CREW	$48,300.00	$35,809.01	$45,378.98
LOCATION WORK	$23,100.00	$23,063.47	$28,858.82
ENGINEERING OFFICE	$151,200.00	$112,441.97	$117,289.01
ENGINEERING-SSES	$4,200.00	$10,440.26	$9,843.64
GENERAL ENGINEERING DEPT.	$124,600.00	$115,719.24	$195,777.39
PRETREATMENT DEPARTMENT	$135,100.00	$130,948.43	$132,659.25
TREATMENT DEPARTMENT	$2,055,200.00	$1,857,299.79	$1,962,652.00
PUMP STATION DEPARTMENT	$210,000.00	$217,361.36	$217,208.79
BILLING DEPARTMENT	$387,100.00	$330,944.00	$331,525.12
ADMINISTRATIVE	$547,400.00	$527,813.40	$502,224.94
DEPRECIATION EXPENSE-NON VEHICLE	$1,663,200.00	$1,552,412.24	$1,312,756.37
PENSION EXPENSE	$357,100.00	$353,487.50	$293,951.69
EMERGENCY REPAIRS	$20,000.00	$19,780.00	$0.00
TOTAL OPERATING EXPENSES	$7,415,000.00	$6,907,680.52	$6,682,309.57
NON-OPERATING EXPENSES			
INTEREST ON DEBT-ALL BONDS	$481,800.00	$457,685.04	$325,545.77
TOTAL NON-OPERATING EXPENSES	$481,800.00	$457,685.04	$325,545.77
TOTAL EXPENSES	$7,896,800.00	$7,365,365.56	$7,007,855.34
NET INCOME (LOSS) BEFORE UNUSUAL ITEMS	$591,800.00	$1,130,548.04	$1,447,410.69
DONATED PROPERTY VALUE	$0.00	$61,756.55	$201,092.50
NET INCOME (LOSS)	591,800.00	1,192,304.59	1,648,503.19

North Little Rock Waste Water
Income Statement
For the Seven Months Ending Friday, July 31, 2015

	JULY 2015	YEAR TO DATE 2015	JULY 2014	YEAR TO DATE 2014
REVENUE				
OPERATING REVENUE				
INSIDE NLR SERVICE CHARGES	$915,631.08	$6,134,830.40	$902,919.46	$6,035,367.21
OUTSIDE NLR SERVICE CHARGES	$192,625.68	$1,322,183.91	$187,891.68	$1,288,841.82
SHERWOOD TREATMENT CHARGES	$33,233.00	$232,631.00	$28,111.00	$196,777.00
CUSTOMER SERVICE CHARGES	$4,183.10	$29,087.04	$4,045.66	$28,259.39
SERVICE CHARGE REFUND	$0.00	($5,466.90)	$0.00	$0.00
INDUSTRY REGULAR CHARGES	$80,542.28	$526,489.60	$90,712.44	$568,087.36
INDUSTRY SURCHARGE/PENALTY CHARGES	$2,850.88	$44,956.12	$8,554.73	$75,747.77
INDUSTRY LATE FEE CHARGES	$2,249.89	$11,331.14	$0.00	$6,102.95
LATE FEE CHARGES-RES. & COM.	$20,672.27	$153,470.22	$23,048.18	$164,932.51
TIE-ON FEE CHARGES	$680.96	$3,905.71	$28,392.00	$36,684.20
CONNECTION INSPECTION PERMITS	$2,585.00	$15,230.00	$3,380.00	$18,185.00
PARTIAL INSPECTION PEMITS	$225.00	$675.00	$45.00	$90.00
TAP & STREET CUTTING PERMITS	$0.00	$3,500.00	$350.00	$4,900.00
REVIEW PLANS & SPECIFICATIONS	$100.00	$1,983.16	$516.15	$2,766.15
TOTAL OPERATING REVENUE	$1,255,579.14	$8,474,806.40	$1,277,966.30	$8,426,741.36
NON OPERATING REVENUE				
INTEREST EARNED INCOME-SECURITES	$1,168.38	$8,197.79	$1,052.21	$6,555.37
INTEREST EARNED INCOME-CHECKING	$318.06	$1,961.87	$430.72	$1,798.05
INTEREST EARNED INCOME-NOTES	$481.25	$3,336.35	$512.62	$3,641.91
DISCOUNTS EARNED	$46.02	$137.99	$60.57	$180.15
MISCELLANEOUS INCOME	$175.00	$7,473.20	$5,400.00	$16,349.19
TOTAL NON-OPERATING REVENUE	$2,188.71	$21,107.20	$7,456.12	$28,524.67
TOTAL REVENUE	$1,257,767.85	$8,495,913.60	$1,285,422.42	$8,455,266.03

North Little Rock Waste Water
Income Statement
For the Seven Months Ending Friday, July 31, 2015

	JULY 2015	YEAR TO DATE 2015	JULY 2014	YEAR TO DATE 2014
OPERATING EXPENSES				
WALKING CREW	$0.00	$8,493.62	$0.00	$0.00
TROUBLE CREW	$9,880.09	$80,401.57	$13,936.92	$76,429.57
MANHOLE CREW	$6,915.11	$54,411.63	$13,689.39	$57,619.33
POWER DRIVE CREW	$1,647.03	$38,239.02	$9,292.19	$51,627.92
TELEVISION CREW #1	$8,829.86	$61,329.92	$15,068.76	$68,763.26
TELEVISION CREW #2	$8,961.26	$61,480.74	$12,187.65	$57,516.89
COLLECTION SYSTEMS-GENERAL	$84,063.01	$638,383.22	$92,511.07	$515,397.09
REPAIR CREW #1	$15,500.95	$106,042.22	$34,472.89	$120,970.45
REPAIR CREW #2	$13,148.01	$92,727.36	$25,243.68	$92,873.77
REPAIR CREW #3	$15,777.58	$126,281.71	$41,893.84	$167,224.10
POWER RODDING CREW #1	$3,487.62	$33,866.84	$6,850.28	$37,862.04
POWER RODDING CREW #2	$0.00	$12,818.48	$1,917.88	$22,312.10
VAC-CON CREW #1	$13,449.42	$96,836.85	$20,690.41	$95,513.74
VAC-CON CREW #2	$12,430.36	$92,977.85	$16,665.84	$87,203.66
VAC-CON CREW #3	$10,948.64	$79,138.38	$14,838.92	$79,940.15
VAC-CON CREW #4	$1,321.98	$9,245.70	$217.53	$929.50
VAC-CON CREW #5	$12,850.74	$27,484.74	$0.00	$0.00
SURVEY CREW	$5,878.39	$35,809.01	$9,590.86	$45,378.98
LOCATION WORK	$3,120.65	$23,063.47	$4,994.40	$28,858.82
ENGINEERING OFFICE	$14,161.05	$112,441.97	$18,019.88	$117,289.01
ENGINEERING-SSES	$2,756.60	$10,440.26	$1,784.98	$9,843.64
GENERAL ENGINEERING DEPT.	$17,497.85	$115,719.24	$22,167.76	$195,777.39
PRETREATMENT DEPARTMENT	$20,621.41	$130,948.43	$28,188.20	$132,659.25
TREATMENT DEPARTMENT	$299,597.69	$1,857,299.79	$329,414.18	$1,962,652.00
PUMP STATION DEPARTMENT	$42,163.83	$217,361.36	$41,743.08	$217,208.79
BILLING DEPARTMENT	$51,518.74	$330,944.00	$57,308.42	$331,525.12
ADMINISTRATIVE	$73,357.50	$527,813.40	$89,650.27	$502,224.94
DEPRECIATION EXPENSE-NON VEHICLE	$223,263.62	$1,552,412.24	$189,737.20	$1,312,756.37
PENSION EXPENSE	$51,162.50	$353,487.50	$41,666.67	$293,951.69
EMERGENCY REPAIRS	$19,780.00	$19,780.00	$0.00	$0.00
TOTAL OPERATING EXPENSES	$1,044,091.49	$6,907,680.52	$1,153,743.15	$6,682,309.57
NON-OPERATING EXPENSES				
INTEREST ON DEBT-ALL BONDS	$74,114.10	$457,685.04	$45,087.84	$325,545.77
TOTAL NON-OPERATING EXPENSES	$74,114.10	$457,685.04	$45,087.84	$325,545.77
TOTAL EXPENSES	$1,118,205.59	$7,365,365.56	$1,198,830.99	$7,007,855.34
NET INCOME (LOSS) BEFORE UNUSUAL ITEMS	$139,562.26	$1,130,548.04	$86,591.43	$1,447,410.69
DONATED PROPERTY VALUE	$61,756.55	$61,756.55	$0.00	$201,092.50
NET INCOME (LOSS)	201,318.81	1,192,304.59	86,591.43	1,648,503.19

North Little Rock Waste Water
Income Statement
For the Seven Months Ending

	JULY 2015	JULY 2014	JULY 2013	JULY 2012	JULY 2011	JULY 2010
REVENUE						
OPERATING REVENUE						
INSIDE NLR SERVICE CHARGES	$6,134,830.40	$6,035,367.21	$5,465,419.61	$4,709,562.40	$4,412,514.71	$4,343,417.13
OUTSIDE NLR SERVICE CHARGES	$1,322,183.91	$1,288,841.82	$1,175,017.16	$986,080.05	$923,854.48	$903,009.63
SHERWOOD TREATMENT CHARGES	$232,631.00	$196,777.00	$193,081.00	$194,516.00	$187,880.00	$218,820.00
CUSTOMER SERVICE CHARGES	$29,087.04	$28,259.39	$27,856.93	$27,421.04	$27,162.09	$26,942.19
SERVICE CHARGE REFUND	($5,466.90)	$0.00	$0.00	$0.00	$0.00	$0.00
INDUSTRY REGULAR CHARGES	$526,489.60	$568,087.36	$532,450.25	$459,086.43	$411,521.31	$425,717.40
INDUSTRY SURCHARGE/PENALTY CHARGES	$44,956.12	$75,747.77	$66,338.34	$92,411.12	$53,755.64	$69,414.99
INDUSTRY LATE FEE CHARGES	$11,331.14	$6,102.95	$11,108.94	$4,479.86	$5,098.16	$2,438.01
LATE FEE CHARGES-RES. & COM.	$153,470.22	$164,932.51	$147,488.40	$132,576.25	$122,700.75	$113,645.12
TIE-ON FEE CHARGES	$3,905.71	$36,684.20	$2,390.17	$1,554.64	$5,623.39	$6,309.07
CONNECTION INSPECTION PERMITS	$15,230.00	$18,185.00	$14,160.00	$15,935.00	$13,275.00	$16,795.00
PARTIAL INSPECTION PEMITS	$675.00	$90.00	$135.00	$0.00	$0.00	$0.00
TAP & STREET CUTTING PERMITS	$3,500.00	$4,900.00	$6,300.00	$5,950.00	$6,300.00	$5,950.00
REVIEW PLANS & SPECIFICATIONS	$1,983.16	$2,766.15	$221.30	$444.00	$2,791.28	$470.28
TOTAL OPERATING REVENUE	$8,474,806.40	$8,426,741.36	$7,641,967.10	$6,630,016.79	$6,172,476.81	$6,132,928.82
NON OPERATING REVENUE						
INTEREST EARNED INCOME-SECURITES	$8,197.79	$6,555.37	$7,261.55	$10,910.20	$14,560.53	$39,800.92
INTEREST EARNED INCOME-CHECKING	$1,961.87	$1,798.05	$1,647.35	$1,744.78	$2,406.22	$1,797.46
INTEREST EARNED INCOME-NOTES	$3,336.35	$3,641.91	$4,343.95	$4,369.21	$5,739.22	$4,763.22
DISCOUNTS EARNED	$137.99	$180.15	$106.25	$166.04	$142.01	$164.69
MISCELLANEOUS INCOME	$7,473.20	$16,349.19	$5,048.30	$5,700.00	$8,796.73	$417.55
PUMP STATION MAINTENANCE FEE	$0.00	$0.00	$69,700.00	$55,000.00	$97,200.00	$0.00
FEMA REIMBURSEMENTS	$0.00	$0.00	$6,491.51	($9,208.67)	$0.00	$36,611.90
TOTAL NON-OPERATING REVENUE	$21,107.20	$28,524.67	$94,598.91	$68,681.56	$128,844.71	$83,555.74
TOTAL REVENUE	$8,495,913.60	$8,455,266.03	$7,736,566.01	$6,698,698.35	$6,301,321.52	$6,216,484.56

North Little Rock Waste Water
Income Statement
For the Seven Months Ending

	JULY 2015	JULY 2014	JULY 2013	JULY 2012	JULY 2011	JULY 2010
OPERATING EXPENSES						
WALKING CREW	$8,493.62	$0.00	$2,481.46	$0.00	$0.00	$0.00
TROUBLE CREW	$80,401.57	$76,429.57	$83,011.32	$77,998.82	$79,076.40	$76,753.93
MANHOLE CREW	$54,411.63	$57,619.33	$15,469.63	$3,619.85	$7,779.36	$1,181.43
POWER DRIVE CREW	$38,239.02	$51,627.92	$69,563.29	$54,756.49	$25,374.49	$24,812.08
TELEVISION CREW #1	$61,329.92	$68,763.26	$37,027.17	$48,318.46	$11,024.47	$32,649.52
TELEVISION CREW #2	$61,480.74	$57,516.89	$63,090.84	$49,348.06	$37,867.40	$34,223.53
COLLECTION SYSTEMS-GENERAL	$638,383.22	$515,397.09	$478,476.55	$477,498.93	$415,148.46	$389,480.02
REPAIR CREW #1	$106,042.22	$120,970.45	$133,294.87	$99,359.88	$92,938.54	$10,767.46
REPAIR CREW #2	$92,727.36	$92,873.77	$87,215.63	$87,582.20	$92,956.95	$9,739.52
REPAIR CREW #3	$126,281.71	$167,224.10	$429,994.56	$261,707.98	$139,427.55	$12,018.22
REHABILITATION WORK	$0.00	$0.00	$0.00	$0.00	$0.00	$637,091.06
LESS CAPITALIZED WORK	$0.00	$0.00	$0.00	$0.00	$0.00	($250,362.97)
POWER RODDING CREW #1	$33,866.84	$37,862.04	$14,615.06	$27,585.40	$20,505.48	$0.00
POWER RODDING CREW #2	$12,818.48	$22,312.10	$15,683.09	$24,651.02	$0.00	$0.00
VAC-CON CREW #1	$96,836.85	$95,513.74	$95,082.58	$94,839.46	$62,356.74	$46,668.39
VAC-CON CREW #2	$92,977.85	$87,203.66	$79,155.83	$87,284.69	$0.00	$0.00
VAC-CON CREW #3	$79,138.38	$79,940.15	$76,117.47	$34,034.54	$0.00	$0.00
VAC-CON CREW #4	$9,245.70	$929.50	$0.00	$0.00	$0.00	$0.00
VAC-CON CREW #5	$27,484.74	$0.00	$0.00	$0.00	$0.00	$0.00
SURVEY CREW	$35,809.01	$45,378.98	$43,980.97	$43,026.67	$39,249.26	$54,848.88
LOCATION WORK	$23,063.47	$28,858.82	$33,931.72	$28,376.82	$34,112.00	$24,697.71
ENGINEERING OFFICE	$112,441.97	$117,289.01	$109,811.63	$118,006.99	$124,535.84	$116,640.30
ENGINEERING-SSES	$10,440.26	$9,843.64	$13,238.93	$13,467.95	$9,381.88	$0.00
GENERAL ENGINEERING DEPT.	$115,719.24	$195,777.39	$156,096.89	$170,636.54	$206,885.15	$210,202.68
VAC-CON CREW #2	$0.00	$0.00	$0.00	$0.00	$36,983.04	$45,046.10
VAC-CON CREW #3	$0.00	$0.00	$0.00	$0.00	$20,129.98	$21,682.61
PRETREATMENT DEPARTMENT	$130,948.43	$132,659.25	$136,629.46	$142,528.79	$113,944.43	$104,556.05
TREATMENT DEPARTMENT	$1,857,299.79	$1,962,652.00	$1,850,652.90	$1,808,469.17	$1,687,529.24	$1,683,693.77
PUMP STATION DEPARTMENT	$217,361.36	$217,208.79	$175,782.82	$169,990.83	$173,267.54	$181,122.14
BILLING DEPARTMENT	$330,944.00	$331,525.12	$309,971.37	$296,634.51	$288,962.20	$291,359.92
ADMINISTRATIVE	$527,813.40	$502,224.94	$484,028.76	$473,665.05	$509,162.82	$488,392.22
LOSS (GAIN) ON PROPERTY DISPOSALS	$0.00	$0.00	($7,753.46)	$4,773.58	($866.71)	$1,872.32
DEPRECIATION EXPENSE-NON VEHICLE	$1,552,412.24	$1,312,756.37	$1,313,919.94	$1,288,957.45	$1,186,696.57	$1,138,902.97
PENSION EXPENSE	$353,487.50	$293,951.69	$293,921.69	$258,791.69	$287,671.69	$264,540.00
EMERGENCY REPAIRS	$19,780.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL OPERATING EXPENSES	$6,907,680.52	$6,682,309.57	$6,594,492.97	$6,245,911.82	$5,702,100.77	$5,652,579.86
NON-OPERATING EXPENSES						
INTEREST ON DEBT-ALL BONDS	$457,685.04	$325,545.77	$358,311.26	$359,188.97	$288,504.96	$296,319.81
BOND ISSUANCE COSTS-ALL	$0.00	$0.00	$0.00	$11,278.82	$11,297.58	$11,315.78
TOTAL NON-OPERATING EXPENSES	$457,685.04	$325,545.77	$358,311.26	$370,467.79	$299,802.54	$307,635.59
TOTAL EXPENSES	$7,365,365.56	$7,007,855.34	$6,952,804.23	$6,616,379.61	$6,001,903.31	$5,960,215.45

North Little Rock Waste Water
Income Statement
For the Seven Months Ending

	JULY 2015	JULY 2014	JULY 2013	JULY 2012	JULY 2011	JULY 2010
NET INCOME (LOSS) BEFORE UNUSUAL ITEMS	$1,130,548.04	$1,447,410.69	$783,761.78	$82,318.74	$299,418.21	$256,269.11
DONATED PROPERTY VALUE	$61,756.55	$201,092.50	$0.00	$0.00	$0.00	$0.00
MASTER PLAN STUDY	$0.00	$0.00	$0.00	$0.00	($114,684.08)	($57,184.81)
WHITE OAK SLOPE EROSION	$0.00	$0.00	$0.00	$0.00	($10,932.50)	$0.00
CONTRIBUTION TO CITY-CATERPILLAR & GREENLEA	$0.00	$0.00	$0.00	$0.00	($800,000.00)	$0.00
NET INCOME (LOSS)	1,192,304.59	1,648,503.19	783,761.78	82,318.74	(626,198.37)	199,084.30

NORTH LITTLE ROCK WASTE WATER UTILITY
NET INCOME DIFFERENCE
AS OF JULY 31

NET INCOME AS OF 7/31/15	$ 1,192,300	
NET INCOME AS OF 7/31/14	$ 1,648,500	
DIFFERENCE BETWEEN 2015 AND 2014	**$ (456,200)**	
INCREASE IN DEPRECIATION EXPENSE	$ (286,000)	(1)
INCREASE IN UTILITIES EXPENSE	$ (151,600)	(2)
DECREASE IN DONATED PROPERTY	$ (139,300)	(3)
INCREASE IN INTEREST EXPENSE	$ (132,200)	(4)
DECREASE IN MAINTENANCE & REPAIRS EXPENSE	$ 98,800	(5)
DECREASE IN SICK AND VACATION EXPENSE	$ 93,200	(6)
INCREASE IN SERVICE CHARGE INCOME	$ 91,200	(7)
INCREASE IN PENSION EXPENSE	$ (59,500)	(8)
DECREASE IN SLUDGE DISPOSAL EXPENSE	$ 40,400	(9)
DECREASE IN GASOLINE EXPENSE	$ 36,100	(10)
DECREASE IN INDUSTRY SURCHARGE/PENALTY INCOME	$ (30,800)	(11)
INCREASE IN OUTSIDE SERVICES	$ (20,000)	(12)
MISCELLANEOUS	$ 3,500	
	$ (456,200)	

(1) INCREASE DUE TO CLOSED PROJECTS OR ADDITIONS TO PROPERTY.
(2) INCREASE IN USAGE AT ALL TREATMENT PLANTS AND THE SHILLCUTT PUMP STATION.
(3) THE VALUE OF DONATED PROPERTY IS LOWER THIS YEAR.
(4) INCREASE DUE TO MORE PROJECTS BEING COMPLETED WHICH WERE FUNDED BY THE SERIES 2012 LOAN. WHEN PROJECTS ARE COMPLETED, THE INTEREST IS EXPENSED.
(5) DECREASE DUE TO REPAIRS TO LEAKS AND CRACKS IN VARIOUS STRUCTURES AT FAULKNER LAKE WHICH WERE MADE IN 2014.
(6) THREE EMPLOYEES RETIRED AND ONE WAS DISMISSED IN 2014. THEY WERE ALL PAID THEIR ACCRUED SICK AND VACATION TIME UP TO 240 VACATION AND 480 SICK HOURS.
(7) REPRESENTS DIFFERENCE IN RATES IN PLACE. FOR 2015, THE JANUARY RATE WAS $3.64 PER 100 CUBIC FEET. FOR 2014, THE JANUARY RATE WAS $3.32 PER 100 CUBIC FEET.
(8) INCREASE IN THE ACCRUAL FOR THE PENSION PLAN CONTRIBUTION.
(9) THE BELT PRESS WAS NOT WORKING FOR SOME OF THE TIME IN 2015, SO NOT AS MANY LOADS HAVE BEEN PICKED UP BY WASTE MANAGEMENT
(10) THERE HAS BEEN A DECREASE IN THE PRICE PER GALLON OF FUEL THIS YEAR.
(11) TYSON FOODS AND BAPTIST HAD HIGHER BOD SURCHARGES IN 2014.
(12) INCREASE REPRESENTS WHAT HAS BEEN PAID FOR THE RATE STUDY IN 2015.

(4)

CENTRAL ARKANSAS WATER/MAUMELLE UPDATE

A copy of a draft Preliminary Engineering Report for the CAW/Maumelle consolidation is attached for your review.

ACTION:

Open discussion

Central Arkansas Water
Essential & Exceptional

PRELIMINARY ENGINEERING REPORT
WASTEWATER SYSTEM
DRAFT

MAUMELLE WATER MANAGEMENT CONSOLIDATION FEASIBILITY STUDY

AUGUST 4, 2015

PREPARED BY:

HAWKINS • WEIR
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1. Introduction

1.1. History of Maumelle Water Management (MWM)

The City of Maumelle began as Maumelle New Town (MNT) in the mid 1960's. Maumelle New Town Water and Sewer Improvement District No. 306 was established in 1970 to provide water and sewer services to the eastern one-third of MNT. The suburban improvement district (SID) acquired approximately $10.6 million in funding to construct water and sewer infrastructure for the development. A second SID, Maumelle Suburban Improvement District No. 500, was organized in 1975 as a result of new legislation that expanded the authority of SID's to include all of the services traditionally provided by a municipality with the exception of police powers. In 1979 SID No. 306 was absorbed by SID No. 500, which is now known as Maumelle Water Management.

When the City of Maumelle was incorporated in 1985, MWM conveyed all of its assets to the City which were not directly related to its water and sewer services. Since that time, MWM has limited its activities to providing water and sewer services to the City of Maumelle. MWM is governed by a board of three (3) commissioners. When a vacancy on the commission occurs, it is filled by a vote of the remaining two (2) commission members. In response to the City's desire for directly appointed representation on the commission, MWM created two non-voting liaison positions on the Board. MWM has also been working towards converting the Utility from an SID to a public water authority (PWA) so that they can increase the number of board members from three (3) to five (5). The two (2) new positions were to be appointed by the City. This transition was slated to occur in mid-2015 but was delayed by the need for a significant rate increase to refinance existing debt and issue new debt required for capital improvements.

1.2. Consolidation of MWM by Central Arkansas Water (CAW)

MWM's water service area is bordered on the north, east, and west by CAW's service area and to the south by the Arkansas River. Multiple discussions and evaluations have taken place over the past two decades regarding various forms of partnerships between MWM and CAW. The most recent formal evaluation was performed by Hawkins-Weir Engineers, Inc. in 2013 as a part of the preparation of a water master plan for MWM. That evaluation determined that is was not economical for MWM to become a CAW wholesale customer. One June 8, 2015, a MWM representative was sent to CAW to advise them of water infrastructure improvements that were planned as a part of an upcoming rate increase. CAW was advised that those investments in MWM's water treatment and distribution system would present additional financial obstacles to the two utilities ever reaching a partnering agreement. MWM's representative asked CAW to reconsider potential opportunities for regionalization.

At their regular meeting on the afternoon of June 10, 2015, MWM's commission approved a recommended rate increase that would increase the average bill by approximately 48.5% over a three-year period. This rate increase was projected to provide for the Utilities increased O&M costs, to allow the Utility to resume funding reserve accounts, to allow the Utility to refinance its existing debt of about $11.2 million, and to allow the Utility to issue approximately $15.6 million in new bonds for a variety of infrastructure projects. The Utility's rate increase proposal was met by initial concern from residents of Maumelle and the Maumelle City Council. A public hearing was scheduled for July 6, 2015. Before that meeting would take place, a special meeting of the Maumelle Water Management Commission was called on June 18 at the request of CAW. At that meeting CAW's CEO, Graham Rich, requested that MWM enter into an agreement that would allow CAW a limited amount of time to evaluate the consolidation of MWM's water and wastewater systems into CAW. It was suggested that if the consolidation was feasible MWM's users would pay CAW's outside city water rates plus a debt service fee. The debt service fee would retire MWM's existing debt and fund any new infrastructure required to connect the systems. MWM's commission unanimously voted to enter into the agreement with CAW.

1.3. About this Report

CAW committed to provide the results of the feasibility study to MWM in September 2015. This aggressive schedule was believed necessary due to MWM's need to move forward with the formation of a public water authority should the consolidation not prove to be beneficial for all parties. As a result of the limited time afforded by this schedule, Hawkins-Weir Engineers, Inc. (HW) was only allowed about a month to plan and prepare this preliminary engineering report. That amount of time did not allow HW the time needed to perform a detailed evaluation and support this report's conclusions at the level that is the standard for our firm. Consequently this report relies heavily on the conclusions of prior evaluations and unverified statements from MWM and CAW staff. This report meticulously identifies the sources of the information it contains and identifies areas where additional study might be beneficial.

2. Capacity Requirements

2.1. Service Area

2.1.1. Demographics

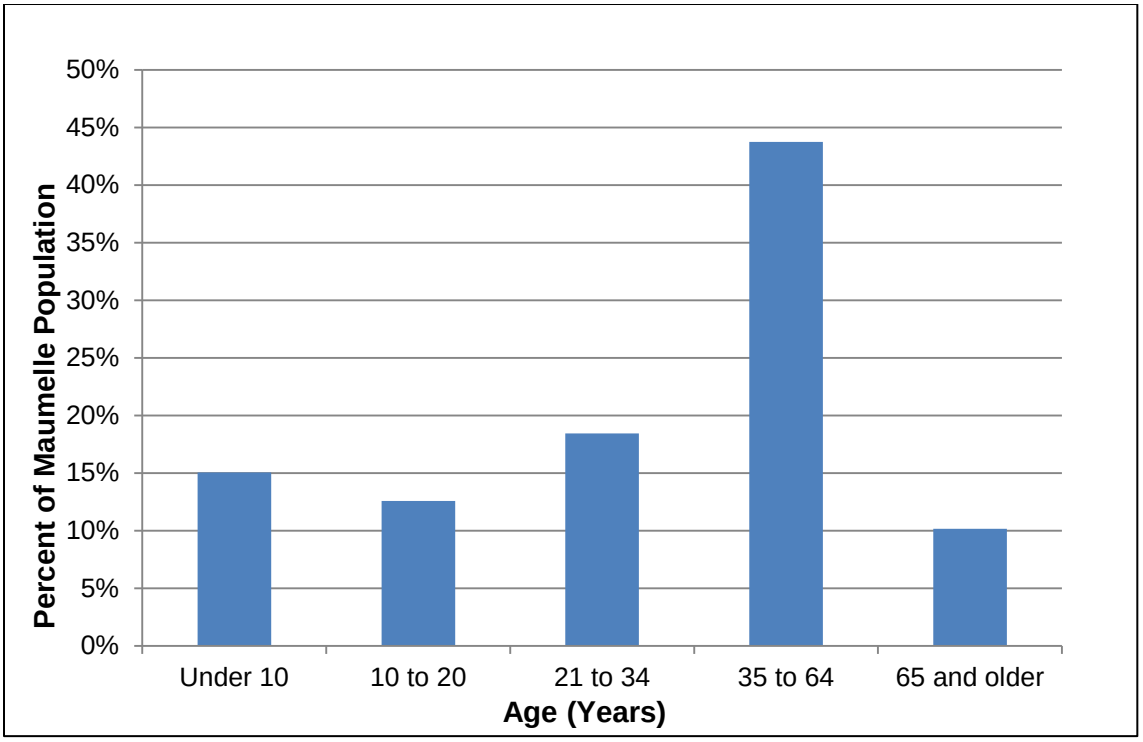
MWM service area is comprised largely of the City of Maumelle. In order to determine the service area demographic, PRIZM[1] psychographic profiles were analyzed. PRIZM is a system for characterizing neighborhoods and local workforce into one of 65 specific market segments. The PRIZM classification system provides a breakdown of people and

[1] Nielsen PRIZM Lifestage Groups. (2015). Retrieved July 24, 2015

neighborhoods based on attitude, interests, opinions and lifestyle. According to the Maumelle Forward[2] and based on PRIZM characteristics, over 70% of Maumelle households fall into "Younger Years" and "Family Life" lifestyle groups. These lifestyle groups are classified as households with young to midlife success, accumulated wealth, and sustaining families. The City of Maumelle consists primarily of upper middle class and upper class residential areas. Nearly 75% of all Maumelle households are represented in Lifestage Groups which portray wealthy lifestyles. Lifestage groups reflect household affluence, head of householder age and household composition.

From 2000 to 2014, the population of Maumelle increased by nearly 60%. Compared to the national averages in the 2010 Census, Maumelle has more individuals between the ages 25 and 54, more owner occupied households, and more households with 2-4 residents. A breakdown of age distribution within the City of Maumelle can be seen below in Figure 2.1.

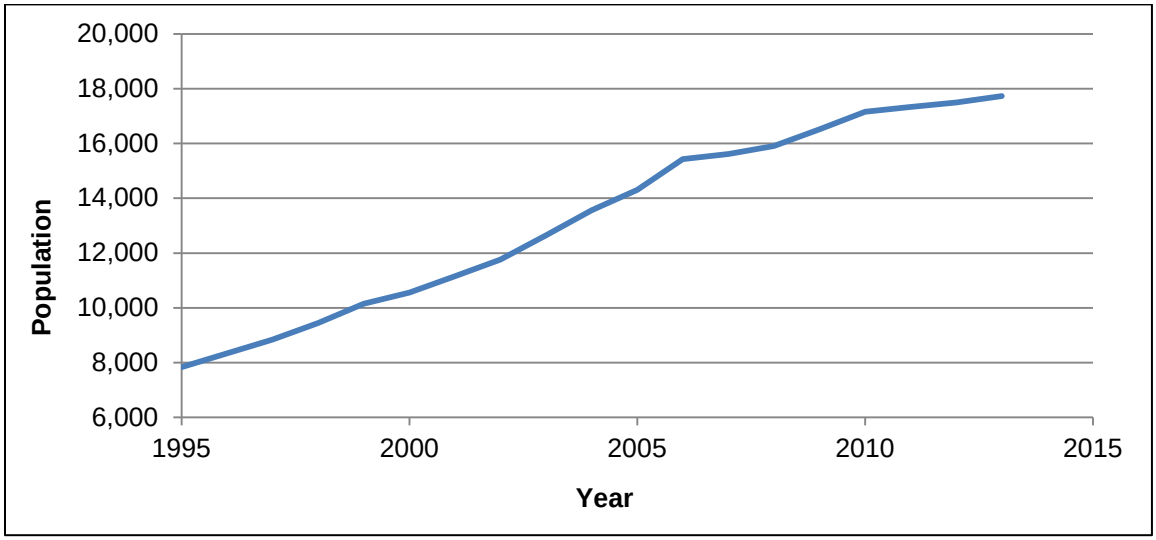
Figure 2.1 – Age Distribution for the City of Maumelle from 2010 Census



The population of Maumelle was 17,163, in 2010 according to the latest census. The current population of the City is approximately 18,000. Maumelle's population has grown at an average annual rate of approximately 4.5% as shown below in Figure 2.2.

[2] Crafton Tull (2013). Maumelle Forward: Forward Thinking, Forward Vision, Forward Progress. Little Rock, AR: Julie Luther, AICP, ASLA.

Figure 2.2 – Historic Population Growth for Maumelle, Arkansas.

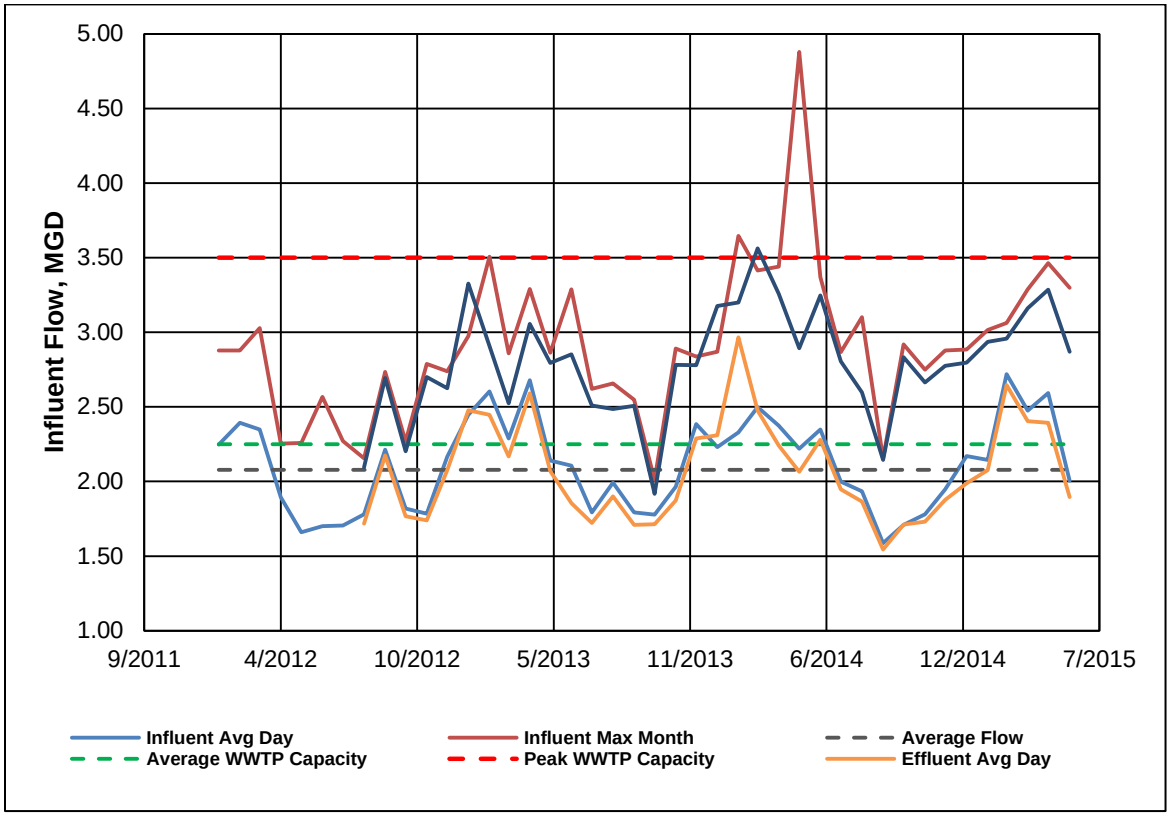


Maumelle Forward cites studies performed by Metroplan that project the population of Maumelle at 27,718 by the year 2030. Based on the slower growth rate of Maumelle between 2008 and 2012, the planning document projects a slightly lower 2030 population of 24,235. The population of Maumelle is projected to be 47,091 at full buildout, per the *Maumelle Forward* planning document. Based on a linear projection of current growth, the City of Maumelle could reach its projected maximum capacity around the year 2060.

2.1.2. Historical Wastewater Flows

MWM's effluent flow at the WWTP has averaged 2.11 MGD over that same period with a max day average of 2.92 MGD. The effluent flow at the WWTP has averaged 2.08 MGD over that same period with a max day average of 2.80 MGD. Figure 2.3 below illustrates the flow variation with time. The Exhibit also provides a visual representation of the WWTP's current utilization. Discussion of the plant's treatment capacity is included in later sections of this report. The plant's limited hydraulic discharge capacity has historically been addressed through on-site equalization storage.

Figure 2.3 - Historical Wastewater Flow vs. WWTP Capacity



2.1.3. Significant Industrial Dischargers

MWM is not required to have an ADEQ approved industrial pretreatment program. MWM regulates each industry on a case by case basis, utilizing individual agreements as needed. Agreements include surcharges when appropriate. Currently MWM has agreements with most industrial dischargers. Only Kimberly Clark, Molex and Cintas have monitored discharges. Kimberly Clark and Cintas are subject to surcharges while Molex is subject to EPA Metal Finishing Categorical Standards and local metal limitations. MWM also has an agreement with Kimberly Clark to refund them monthly for wastewater charge associated with water consumed in their industrial process. There is no meter measuring Kimberly Clark's wastewater discharge, rather, Kimberly Clark uses a proprietary formula to calculate the volume that they report to MWM.

2.2. Flow Projections

The preliminary engineering report evaluating the capital needs for MWM to consolidate into CAW identified a projected increase in the peak water demand of approximately 50% to 10.2 MGD at full buildout. That projected increase was estimated to occur over a period of 45 years based on Maumelle's historic population growth. Applying the same growth rate to MWM's wastewater peak flow yields a projected peak of 5.2 MGD. This simplified projection assumes that MWM's collection system is maintained to prevent a significant increase in the contribution of infiltration and inflow (I&I). MWM's average peak wastewater flow is currently

80% of the WWTP's max discharge capacity. The plant has discharged at or near its peak capacity on multiple occasions during the period evaluated by Figure 2.3. HW recommends that an increase of the effluent pump station's capacity be implemented within the next five (5) years.

3. Existing Wastewater System

3.1. Collection System

3.1.1. Collection System Overview

The Maumelle wastewater collection system encompasses approximately 6,400 of the 8,300 acres within the City limits of Maumelle. There is an elevation differential of 300 feet across the service of area of Maumelle Water Management. The wastewater collection system is a combination of gravity mains, pumping stations and force mains. The flows are collected at a centrally located wastewater treatment facility described in Section 3.2 of this report.

3.1.2. System Inventory

The gravity collection system consists of six inch through twenty-four inch gravity sewer mains with total footages as shown in the Table 3.1. Pipe materials are concrete, PVC, and ductile iron.

Table 3.1 – Gravity Sewer Inventory

PIPE DIA (IN)	LENGTH (FT)
6	18,400
8	509,600
10	26,700
12	15,900
14	645
15	18,500
18	10,100
20	8,900
21	4,200
24	7,500
TOTAL	**620,445**

The collection system includes approximately 3,100 manholes. There is no tabulation for services lines. Force mains vary in size from two inch through twenty inch as shown in Table 3.2. Pipe material is typically PVC for all sizes with the exception of the twenty inch pipe which is ductile iron.

Table 3.2 – Force Main Inventory

PIPE DIA (IN)	LENGTHS (FT)
2	3,700
3	800
4	13,200
6	10,600
8	11,800
10	5,900
12	11,800
20	11,500
TOTAL	**69,300**

3.1.3. Pump Stations

There are currently twenty-five (25) active pump stations in the collection system maintained by Maumelle Water Management. All pump stations are equipped with dual submersible pumps, with the exception of the pump station at Murphy Drive which is equipped with two vertical wet-pit turbine pumps. The pump stations are monitored and controlled by means of a Supervisory Control and Data Acquisition (SCADA) network. Table 3.3 provides available data for the various pump stations.

3.1.4. System Capacity Limitations & Maintenance Concerns

Wastewater collection systems are designed to convey sewage, not stormwater. Even so, there are many areas within sewage collection systems that can handle large amounts of stormwater flow from inflow and infiltration (I&I). I&I enters collection systems through leaking pipe joints, pipe breaks, illegal connections, and other areas. There are bottlenecks within most sewer systems that prevent the complete conveyance of wet weather flows which often result in sanitary sewer overflows (SSOs). This is a very common problem in sewage systems nationwide which is in no way unique to MWM's collection system. MWM reported the sixty-two (62) SSOs to ADEQ that occurred between November 2010 and October 2014. Table 3.4 categorizes each of the SSOs reported during that time period into one (1) of seven (7) groups based on their cause. As a result of the reported SSO's, ADEQ issued a draft Consent Administrative Order (CAO) to MWM on February 5, 2015.

Table 3.3 – Pump Station SCADA Breakdown

STATION ID	PUMPS	PUMP HP	DESIGN CAPACITY	PUMP BRAND	VOLTS	GEN SET	LOCATION
Lift Sta #1	3	50.0	1000 @ 98'	Allis Chalmers	480/3	X	Murphy Dr.
Lift Sta #5	2	3.7		Peabody Barnes	230/1		147 Ridgeland
Lift Sta #6	2	2.0		Peabody Barnes	230/1		Ridgeland & Odom
Lift Sta #7	2	29.0		Homa	480/3		193 Diamond Point
Lift Sta #8	2	7.5	320 @ 37'	Peabody Barnes	230/1		Odom & Ouachita
Lift Sta #9	2	2.0		Hydromatic	230/1		13 Shara Lane
Lift Sta #10	2	2.0		Homa	230/1		12 Masters Place
Lift Sta #11	2	7.5		Peabody Barnes	230/1		61 Northfork Dr.
Lift Sta #12	2	25.0		Hydromatic	480/3		6 Crystal Mtn Lane
Lift Sta #14	2	29.0		HOMA	230/3		9 Breezewood Dr.
Lift Sta #15	2	7.5		Hydromatic	230/3		122 Quapaw Trail
Lift Sta #16	2	20.0	375 @ 74'	HOMA	230/3		Counts Massie & Country Club
Lift Sta #17	2	40.0		Fairbanks	480/3	X	140 Maumelle Valley Dr.
Lift Sta #18	2	5.0		Hydromatic	230/1		119 Bouriese Dr.
Lift Sta #19	2	5.0		Hydromatic	230/1		215 Maranes Dr.
Lift Sta #20	2	25.0	230 @ 129'	Hydromatic	230/3		112 Seminole Dr.
Lift Sta #22	2	5.0		EMU/USEMCO	480/3		Carnahan
Lift Sta #23	2	5.0		Hydromatic	480/3		Odom & Melville
Lift Sta #24	2	2.0		Hydromatic	230/1		Seminole
Lift Sta #25	2	15.0		Hydromatic	480/3		Maumelle Blvd. & Crystal Hill
Lift Sta #26	2	2.0		Hydromatic	230/1		Savanna
Lift Sta #27	3	15.0		Myers	480/3		Naylor Dr.
Lift Sta #28	2	5.0		Gould	480/3		CCA Ball Fields
Lift Sta #29	2	10.0		Hydromatic	480/3		151 Lake Valley
Lift Sta #30	2	20.0	800 @ 50'	Hydromatic	480/3		High School Campus

Table 3.4 – Causes of Reported Collection System Overflows (2010 – 2014)

Year	WWTP Equalization Basin	Sludge Drying Beds	WTP Backwash	Power Failure	Mechanical Failure	Capacity	Sewer Clog	Annual Total
2011	2	0	0	0	1	1	5	**9**
2012	2	3	3	1	2	0	13	**24**
2013	3	1	0	5	1	2	4	**16**
2014	4	0	2	1	1	0	5	**13**
Total	**11**	**4**	**5**	**7**	**5**	**3**	**27**	**62**

The causes of the reported SSOs are further detailed below. MWM determined that many of the reported incidents were misreported and did not qualify as SSOs.

- **WWTP Equalization Basin** – MWM's WWTP includes primary and secondary equalization basins. When the primary equalization basin fills beyond its capacity during wet weather it can overflow into the secondary equalization basin. These overflows were incorrectly reported as SSOs eleven (11) times during the period. These occurrences do not qualify as SSOs since they did not originate from the

sanitary sewer collection system and they should not have been reported as such by MWM. No sewage escaped treatment as a result of these events. The practice of overflowing the primary equalization basin into the secondary equalization basin became standard practice at the WWTP following the renewal of our NPDES permit in January 2015.

- **Sludge Drying Beds** – MWM's solids handling process includes sludge drying beds. Four (4) of the reported SSOs during the period were instances where a quantity of digested waste activated sludge spilled during transfer to or from the drying beds. In each instance the spill was promptly cleaned and disinfected and the plant's BMPs were reviewed to prevent reoccurrence. These occurrences do not qualify as SSOs since they did not originate from the sanitary sewer collection system and they should not have been reported as such by MWM.

- **WTP Backwash** – MWM altered the handling of the water treatment plant's (WTP) backwash and sludge blowdown stream when the treatment process was changed from lime softening to sodium hydroxide (NaOH) softening. When operating as a lime softening plant the backwash and blowdown stream was sent to the on-site sludge settling/storage basin and the settled water was pumped to the sanitary sewer. The WTP treatment process was changed to NaOH softening and the operators were told that the NaOH sludge discharge did not have to be settled and the wastewater treatment plant (WWTP) would have no problem handling this type of waste. After a year of operation the WTP operators discovered, due to SSOs submitted by the WWTP operators, that they had been misinformed. The NaOH sludge settled and plated the sanitary sewer lines causing reduction in diameter. When this was discovered the WTP sludge settling/storage basin was placed back in service and only settled water was sent to the sewer. The sewer lines were cleaned and televised to ensure the problem would not recur. There has not been any SSOs caused by the WTP since 2014.

- **Power Failure** – Electrical service is provided to MWM by Entergy Arkansas. Seven (7) SSOs were reported at MWM lift stations during the period that were a direct result of loss of power to those stations. MWM utilizes portable generators to energize the pump stations during power outages. During widespread outages the generators have to be continuously moved between the affected pump stations to prevent their wet wells from overflowing. The overflows that were reported were the result of the inability to provide temporary power quickly enough to a particular lift station.

- **Mechanical Failure** – Mechanical failures at lift stations or the WWTP can adversely impact the collection system and occasionally result in an SSO. SSOs of this nature were reported five (5) times within MWM's collection system during the approximate four (4) year period. One of the instances resulted from a failure at the WWTP that caused the collection system to backup and overflow a nearby manhole. Another of

the occurrences was due to an air relief valve sticking open. The three (3) remaining SSOs occurred due to a mechanical failure at a lift station. One of those issues was reported to have only consisted of five (5) gallons spilled.

- **Capacity** – An SSO is caused by a capacity issue when the sewer collection system is insufficient to convey the instantaneous flow by gravity. When the system fills up and is overwhelmed, the system becomes pressurized and overflows can occur from manholes or through sewer service laterals. Only three (3) capacity related SSOs have been recorded from MWM's collection system during the period. Each occurred at a manhole and was the direct result of one of two significant wet weather events.

MWM conceded that only forty-seven (47) of the reported sixty-two (62) events were actually SSOs that occurred within their collection system over the approximate 3-year period. Only three (3) of those events resulted from capacity limitations within the collection system. One of those events occurred on December 26, 2011 while the other two (2) overflows occurred on April 2, 2013. Abnormally high rainfall and localized flooding occurred on each of these two days. The extremely limited number of SSOs resulting from wet weather events over the three (3) year period indicates that capacity issues are not significant within MWM's collection system.

Thirty-nine (39) overflows were determined to be caused by clogging of the sewer and power or mechanical failures within the collection system. To address these issues MWM agreed to develop a continuous Critical Action Plan (CAP) for its collection system. The primary focus of the CAP, which has not yet been written, will be to identify all feasible steps to mitigate the impact of non-wet weather related SSOs in their collection system. Due in part to MWM's commitment to complete the CAP within six (6) months and implement its findings within two (2) years, ADEQ agreed to withdraw the proposed CAO on June 19, 2015.

3.2. Treatment

3.2.1. Treatment Overview

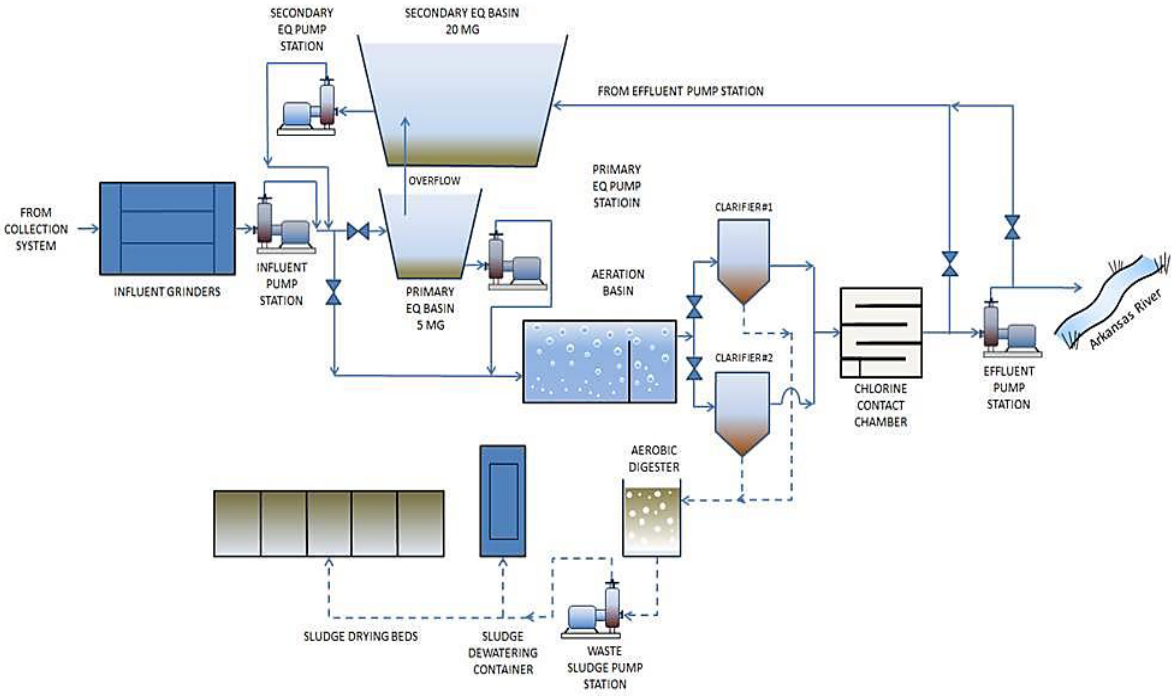
MWM's wastewater treatment plant (WWTP) utilizes the extended aeration modification of the activated sludge process. Exhibit 3.1 is an aerial photo of the primary portion of the treatment plant. Exhibit 3.2 provides a process flow diagram for the plant.

3.2.2. Influent

Influent from the collection system flows through one (1) of three (3) parallel grinders before being lifted into the WWTP by an influent pump station. According to MWM, the influent pump station has a peak capacity of 4.5 MGD.

Exhibit 3.1 – WWTP Aerial Photo

Exhibit 3.2 - WWTP Process Flow Diagram

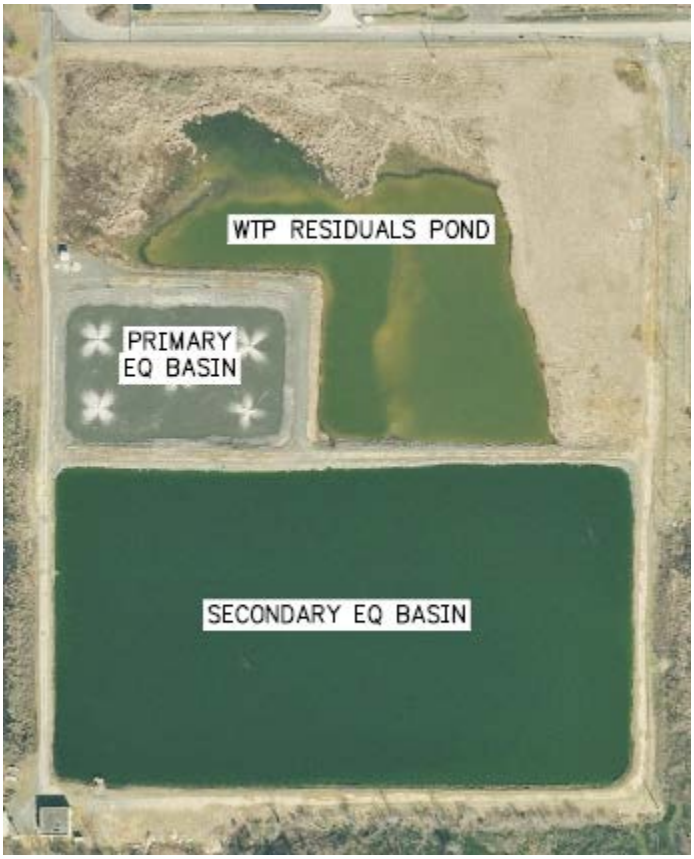


3.2.3. WWTP Ponds

Three (3) ponds are located at the MWM WWTP. An aerial photo of the ponds is included as Exhibit 3.3. Two (2) ponds (Primary and Secondary EQ Basins) are operated as influent flow equalization. The Primary EQ Basin has a five (5) million gallon volume and is partially mixed by surface aerators and all influent flow enters the treatment process through this basin. Per MWM, flow can be pumped from the primary EQ basin to the WWTP aeration basin at a maximum rate of 3.5 MGD. The Secondary EQ Basin has an approximate volume of twenty (20) million gallons and receives

Primary EQ Basin overflows and storage during force main shut down or failure, effluent pump station shut down or failure, and any other WWTP failure. All waters diverted to the Secondary EQ Basin are pumped back to the head of the WWTP for processing through the full WWTP processes.

Exhibit 3.3 – Aerial Photo of WWTP Ponds



Solids retained in the Primary EQ basin are minimal since it is completely mixed. Solids retained in the Secondary EQ basin are also believed to be minimal since only overflow from the primary EQ Basin is currently received by that basin. MWM staff believes sludge depth to average less than two feet in the Secondary EQ Basin, but have not verified the sludge depth in years.

The third pond located at the WWTP site is currently being used to store residuals generated at MWM's water treatment plant (WTP). Settled solids from the WTP backwash and clarifier blow down have been trucked from the WTP settling pond and deposited in the pond for more than 15-years. The storage facility is permitted to store water treatment plant residuals and bio-solids under ADEQ State Permit 4632-WR-2.

3.2.4. Aeration

MWM operates their aeration basin between 2,500 mg/l and 5,500 mg/l based on flows and seasonal variations. Based on *Ten States Standards*[3] conservative loading criteria of 50-lb BOD_5/day/1,000 ft^3, the aeration basin has a capacity of 2.25 MGD at normal flow. A more detailed analysis is needed to determine the true capacity of that component of the WWTP. The aeration basin utilizes coarse bubble diffusers. The aeration basin can be divided and isolated with a 33/67% split of the volume if diffuser or other maintenance is required. Air flow to the basin is provided by two positive displacement blowers. The un-enclosed blowers are located immediately south of the aeration basin. According to MWM, both blowers need to be operated simultaneously during the majority of the year to maintain an adequate dissolved oxygen concentration. The installation of a third blower is recommended to provide redundancy.

3.2.5. Secondary Clarification

During normal operations, mixed liquor from the aeration basin is sent to a single 80-foot diameter secondary clarifier with an average flow capacity of 3.5 MGD and a peak day capacity of 7 MGD. A second secondary clarifier (50-foot diameter) with an average day capacity of 1.2 MGD and a peak day capacity of 2.4 MGD can also be operated in parallel with the larger clarifier if needed.

3.2.6. Disinfection

Disinfection is accomplished by chlorination in a contact chamber with a peak capacity of 6 MGD based on a required contact time of 15 minutes. The effluent is de-chlorinated with sulfur dioxide and pumped to the Arkansas River by an effluent pump station with a reported peak capacity of 3.2 MGD. When plant flow exceeds the capacity of this pump station, operators have the option to divert a portion of effluent to the secondary equalization basin. This is a limited duration strategy since the diversion has to be discontinued once the 20 million gallon equalization basin becomes full. All volume stored in that basin is ultimately returned to the biological treatment train when peak flows subside.

3.2.7. Solids Handling

Waste sludge (WAS) from the WWTP is pumped to a single lightly aerated tank that is considered to be an aerobic digester by MWM. Aeration is provided by a single floating aerator. MWM operations staff has the option to pump the sludge to either a series of gravity drying beds or a Flo Trend Sludge Mate® Dewatering Container. Polymer can be added to the sludge prior to it being pumped to either location. After sufficient

[3] Recommended standards for wastewater facilities: Policies for the design, review and approval of plans and specifications for wastewater collection and treatment facilities: A report of the Wastewater Committee of the Great Lakes--Upper Mississippi River (2004 ed.). (2004). Albany, N.Y.: Health Education Services.

dewatering has occurred, the solids are ultimately hauled by a private contractor to a Subtitle D landfill for final disposal.

3.2.8. WWTP Available Capacity

Table 3.5 lists the approximate capacities of each component of the WWTP.

Table 3.5 Approximate Capacity of WWTP Unit Processes

Unit Process	Capacity (MGD)
Influent Grinders	9.5
Influent Pump Station	4.5
Primary Equalization Basin	5 MG
Secondary Equalization Basin	20 MG
Primary Equalization Pump Station	3.5
Secondary Equalization Pump Station	3.5
Aeration	2.25
Clarifier #1	3.5
Clarifier #2	1.2
Disinfection	6
Effluent Pump Station	3.2
Total Available Capacity	**2.25**[1]

[1] Based on 10-States Standards Criteria for aeration. More study is needed to approximate the limiting capacity of the aeration basin.

On the average day the WWTP is operating at over 90% of its capacity based on the conservative estimate of the aeration capacity used for this report. Additional study is needed to determine the true average day limitation of the system. The plant is limited to a peak capacity of 3.5 MGD which, according to MWM, is the most flow that can be pumped to the river and diverted to the secondary equalization basin without causing an overflow of the chlorine contact basin.

3.2.9. Water Plant Sludge

The third pond located at the WWTP site is used to store residuals generated at MWM's WTP. The sludge storage pond has an area of approximately eight (8) acres. It has a total sidewall depth of seven (7) feet, a maximum water depth of five (5) feet, and 3 to 1 interior side slopes. The total storage capacity of the pond (zero freeboard) is approximately 2,267,400 ft^3 or 16,961,000 gallons. At five (5) feet (two feet of freeboard) the storage capacity of the pond is approximately 1,585,200 ft^3 or 11,858,300 gallons. Prior to 1999 the pond had been used as a polishing pond in past MWM wastewater treatment plant processes.

3.3. Wastewater Characteristics

3.3.1. Influent Characterization

Influent measurements recorded by MWM at their WWTP were evaluated for this report over a period from January 2012 through June 2015. The results of that evaluation are summarized in Table 3.6. below. This information indicates that MWM's influent wastewater could be characterized as medium strength[4]. HW noted that the TSS levels in the influent were elevated during the summer months. It can be speculated that this seasonal variation is caused by algae growth in the plant's equalization basin.

Table 3.6 - MWM Influent Wastewater Characteristics

Constituent	Concentration (mg/l)
Influent BOD	194
Influent TSS	227

The alkalinity in MWM's drinking water typically exceeds 150 mg/l as $CaCO_3$. The current influent alkalinity at MWM's WWTP ranges from 150 – 200 mg/l as $CaCO_3$. Alkalinity is of particular importance in wastewater treatment when nitrification is required. Approximately 7.2 mg/l of alkalinity is consumed in the nitrification process for every 1.0 mg/l of ammonia nitrified. The influent ammonia concentration in medium strength wastewater typically averages around 25 mg/l[4]. MWM's current NPDES Permit does not include an ammonia limit. Little Rock Wastewater, who also discharges into the Arkansas River, on the other hand, has been put on notice that their NPDES permit will include an ammonia limit by 2017. That limit is anticipated to be 6 mg/l at one of their WWTPs and 12 mg/l at the other.

The current level of alkalinity at MWM's WWTP would not be a limiting factor in the plant's ability to comply with a future ammonia limit. The alkalinity in CAW's finished water, on the other hand averages 10 mg/l as $CaCO_3$. Unless sufficient alkalinity is added from other sources, such as industrial discharges, the low level of background alkalinity provided by CAW could result in difficulties in meeting a future ammonia limit. In a worst case scenario this limitation could be overcome by supplementing alkalinity at the WWTP which would increase the plant's operating costs. Considering MWM's existing NPDES Permit requirements and based on typical permitting practices, ammonia removal should not be required at MWM's WWTP over the next 5 – 10 years.

[4] Metcalf & Eddy, Inc. (2003). Wastewater Engineering: Treatment and Reuse. *McGraw Hill,* Table 3-15: *Typical Composition of Untreated Domestic Wastewater*, pg. 186.

3.3.2. Effluent Quality

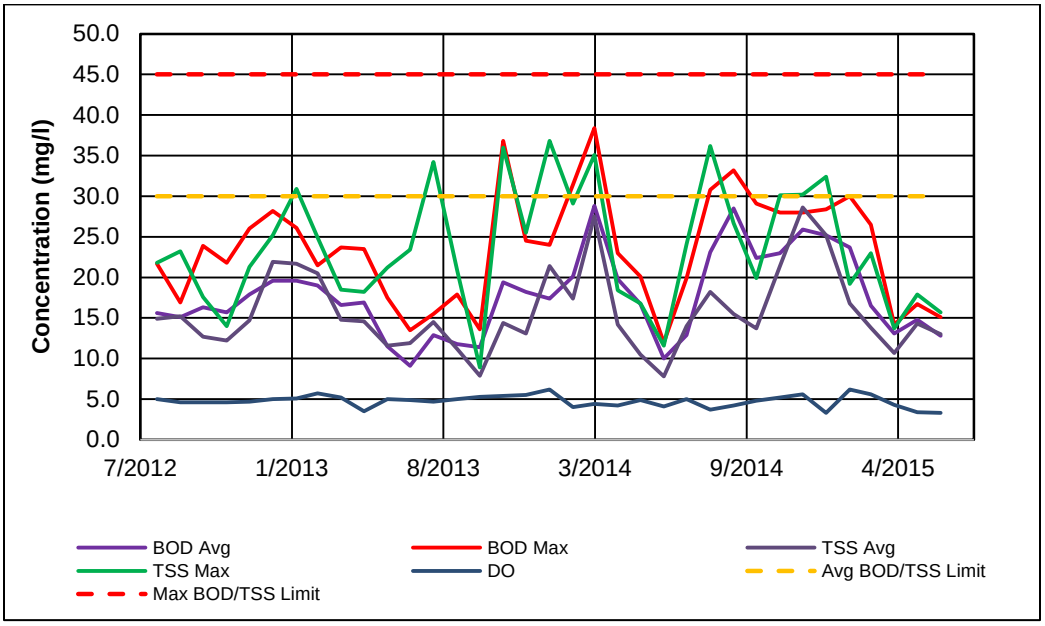
MWM's WWTP's minimum effluent quality is dictated by NPDES Permit AR0033626 issued by the Arkansas Department of Environmental Quality (ADEQ). The effective date of this permit was January 1, 2015 and the permit expires on December 31, 2019. The key effluent limitations stipulated by that permit are listed in Table 3.7 below:

Table 3.7 - MWM Influent Wastewater Characteristics

Effluent Characteristic	Discharge Limitation		
	Mass lbs/day	Concentration mg/l	mg/l
	Monthly Avg.	Monthly Avg.	7-Day Avg.
Flow	N/A	Report, MGD	Report, MGD Daily Max
BOD_5	875.7	30	45
TSS	875.7	30	45
DO	N/A	2.0 (Inst. Min)	
FCB		Colonies/100 ml	
April - Sept	N/A	200	400
Oct - Mar	N/A	1000	2000
TRC	N/A	No Measurable	
pH	N/A	Minimum 6.0	Maximum 9.0

Figure 3.1 below illustrates the WWTP's compliance with its BOD_5 and TSS effluent limits from August 2012 through June 2015. It also shows that the plant remained in consistent compliance for minimum DO levels. The plant did have one exceedance for 7-day Fecal in April of 2014 due to a mechanical failure at the plant which has since been resolved.

Figure 3.1 - MWM Effluent Quality



4. Capital Needs of Existing Wastewater System

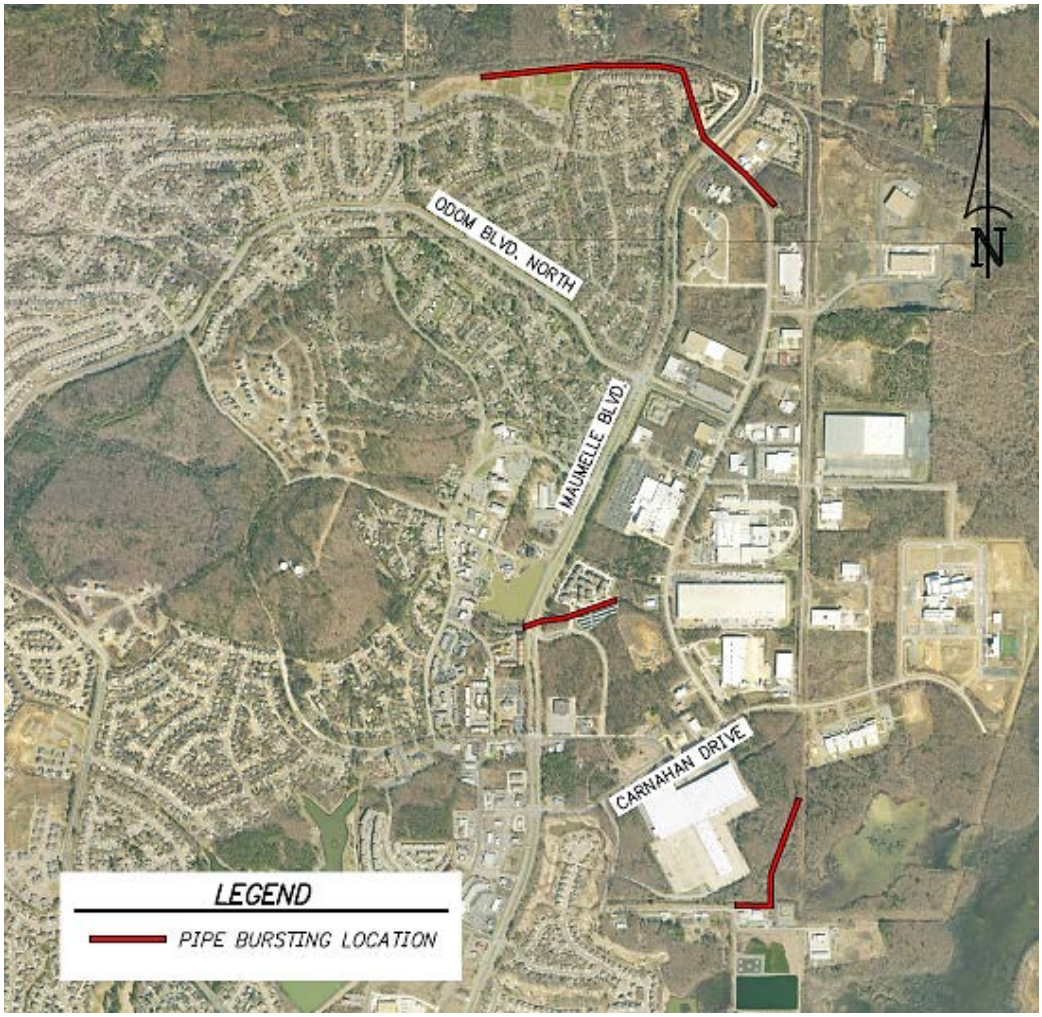
4.1. Collection System

The following projects were identified as immediate needs in MWM's Short and Long Range Plan, 2015 Update. The need for these projects is supported by previous failures and observations of the MWM Staff. A full sewer system evaluation study should be performed to identify any additional pipe rehabilitation that is needed.

- ***Rehabilitate 24" Collector across Wetlands near WWTP:*** An I&I study of this line showed the inner walls to be greatly eaten away by sewer gases. Being that this line runs through the wetlands, a failure could cause millions of gallons of inflow to the treatment facility and potentially drain the wetlands. This line section is estimated to cost $825,000 based on bursting approximately 3,500 feet or 24" RCP. Cured in place pipe (CIPP) may be an alternative method for this repair.
- ***Rehabilitate Maumelle Blvd Crossing:*** This sewer section is known to have multiple failures and to be a significant source of I&I in the system. This section is estimated to cost $345,000 based on bursting approximately 3,700 feet of 12" RCP. Cured in place pipe (CIPP) may be an alternative method for this repair.
- ***Rehabilitate 21" Collector from Diamond Point Lift Station towards Lift Station #1:*** This is a concrete line that is failing and has multiple known infiltration issues. This section is estimated to cost $1.2 million based on bursting approximately 5,000 feet of 21" RCP. Cured in place pipe (CIPP) may be an alternative method for this repair.

Exhibit 4.1 shows the locations of each of these line segments.

Exhibit 4.1 – Required Sewer System Rehabilitation



4.2. Pump Stations

A brief inspection was performed on each of MWM's pump stations from July 31 – August 3, 2015. The inspection was performed by a team comprised of representatives from MWM, North Little Rock Wastewater, and Hawkins-Weir Engineers, Inc. The inspections did not find the need for any immediate capital improvements at the pump stations. They did note wet well deterioration at a few of the sites that will need to be addressed within the next several years. Additional emergency generators may also be recommended for a select number of the pump stations to prevent power failure related SSOs. The Critical Action Plan that will be developed from MWM in the coming months will include specific recommendations for back-up power needs.

4.3. Treatment

Detailed evaluations of WWTP hydraulics, process, solids handling, and equipment condition were not performed as a part of this report. The capital needs identified in this section are based primarily on the recommendations and cost estimates detailed in MWM's

May 2015 update of their *Short & Long Range Plan.* Overall the WWTP is operating very near its peak average flow. Standard practice is to expand WWTP's at the point in time that they are operating at approximately 80% of their design condition. It is recommended that a study be performed to evaluate the need for an immediate expansion of MWM's WWTP. A reasonable assumption would be that the plant capacity be doubled to 4.5 MGD. The cost to expand the plant could range from $5 to $10 million. The paragraphs below introduce other specific needs that should be considered assuming that overall expansion of the plant is proven to be unnecessary after further evaluation of the aeration basin or if it is found to not economically possible at this time.

4.3.1. Mechanical Bar Screen

A new mechanical bar screen is recommended to address maintenance issues caused by rags entering the plant. These rags collect on the surge basin aeration equipment and cause wear and tear on pumps resulting in frequent clogging. A mechanical bar screen at the headworks will resolve this problem. The installation of a mechanically cleaned bar screen and conveyor was estimated by MWM's *Short & Long Range Plan* to cost approximately $750,000. This cost assumes that the screen can be installed in the existing structure and excludes the cost of any washing systems which are not believed to be needed for this WWTP.

4.3.2. Aeration Basins

The WWTP's aeration basins currently employs coarse air diffusers. MWM's *Short & Long Range Plan* recommends that these diffusers be upgraded with more efficient fine bubble diffusers to achieve better treatment and add to the capacity of the aeration basins. The aerobic digester is currently operated with a floating aerator. The floating aerator is insufficient to provide the level of solids reduction desired. MWM intends to replace the floating aerator with coarse bubble aeration relocated from the aeration basin. The aeration improvements were estimated to cost approximately $500,000. This estimate assumed that the capacity of the existing blowers was adequate to deliver the required demand to both the aeration basins and the digester. The estimate also did not include costs for any temporary treatment equipment that may be required for this project. HW recommends that additional engineering study be performed prior to the implementation of this project.

Both of MWM's positive displacement blowers are operated during normal conditions to provide adequate dissolved oxygen in the aeration basin. A new blower is recommended to provide redundancy for this critical function. The cost to install a new blower including the required piping and electrical modifications is estimated to be approximately $100,000.

4.3.3. Sludge Handling

MWM's *Short & Long Range Plan* identifies the need for a second Flo Trend Sludge Mate® sludge drying box at an estimated cost of $100,000. That cost assumes installation by MWM personnel. HW recommends a more conservative cost of $150,000

be assumed to account for contractor installation and any minor modifications required to the sludge pump station. The WWTP typically fills the sludge dewatering box once per day during peak sludge production periods and does not send any flow to the gravity drying beds. Since the plant has the option to utilize the gravity drying beds during peak periods, the addition of a second sludge dewatering box is considered to be a long term need for the purposes of this report.

4.3.4. Disinfection

Disinfection at the WWTP is accomplished by gaseous chlorine fed from 150-lb cylinders. 150-lb cylinders of sulfur dioxide are used for dechlorination. These chemical feed systems do not have emergency shut off valve actuators or emergency scrubber systems. Chemical feed is proportioned according to flow only. No compound loop controls are currently used to pace chlorine or sulfur dioxide based on residual values. Although MWM's *Short & Long Range Plan* does not identified the need for any improvements in this area of the WWTP, HW recommends additional study in this area to improve safety and reduce chemical usage.

4.3.5. Effluent Pump Station

As discussed earlier in this report, the WWTP has discharged at or near it peak capacity on multiple occasions since 2012. The ability to expand the effluent pump station is limited by the capacity of the 12-in diameter effluent force main. HW recommends that the effluent pump station's capacity be expanded to 5 MGD within the next five (5) years. A conceptual level cost estimate for that expansion is $500,000.

4.3.6. Water Treatment Sludge

ADEQ has previously reported that since residual bio-solids remained in the pond at the time water plant residuals were introduced into the pond, all material stored in the pond must be removed and beneficially used or disposed of as bio-solids. If this is required, the cost for the final disposal of the stored solids could be approximately $2 million. This estimate is based on an estimated quantity of sludge with a 20% solids content being disposed of at the Two Pines Landfill in Pulaski County at current tipping rates. A detailed evaluation of the sludge quantity and characteristics was not performed as a part of this report. There remains a possibility that the solids could be classified as "exceptional quality" through testing. Under this circumstance ADEQ may permit the solids to be disposed of "in place" at virtually no future cost.

4.4. Recommended Capital Improvements

A summary of the capital improvements identified in this report along with their corresponding estimated construction cost and recommended implementation schedule is listed in Table 4.1.

Table 4.1 – Recommended Capital Improvements

Description	Estimated Cost	Schedule	Notes
Sewer Rehabilitation	$2,370,000	Immediate	Cost based on Pipe Bursting. CIPP Could be Considered for Cost Reduction
WWTP Expansion	$10,000,000[1]	1 – 5 years	More Study of Existing Capacity Needed
Mechanical Bar Screen	$750,000	1 – 5 years	½" Clear Spacing
Aeration Improvements	$600,000	5 – 10 years	Fine Bubble Diffusers
WWTP Blower	$100,000	Immediate	Redundant PD Blower
Sludge Dewatering Container	$150,000	5 – 10 years	Flow Trend Sludge Mate®
Disinfection System	$200,000[1]	TBD	Safety Systems and Compound Loop Chemical Controls
Effluent Pump Station	$500,000[1]	1 – 5 Years	Expansion to 5 MGD, Pump Replacement Only.
Sludge Disposal	$2,000,000[1]	TBD	Water Plant Sludge Stored in Portion of Abandoned Sewer Lagoon
Budget Total	**$16,570,000**		

[1] More study recommended to produce cost estimates with a higher degree of reliability

5. Conclusion

The ultimate disposition of MWM wastewater system for the purpose of this evaluation is dependent on the conclusion reached regarding the consolidation of MWM's water system into CAW. If the consolidation of the water systems is not feasible then the wastewater system will likely continue to be operated by MWM. A consolidation of the water systems, on the other hand, may necessitate a transition for the wastewater system. It is anticipated that the system consolidation feasibility study will minimally evaluate the three possibilities listed below.

- Wastewater system continues to be operated by MWM
- Wastewater system is operated as a department of the City of Maumelle or by a newly formed wastewater commission appointed by the City of Maumelle
- Wastewater system is consolidated with the North Little Rock Wastewater Utility

The capital improvements recommended by this report would apply equally to each of these governance options. Of the capital improvements recommended, only the sewer rehabilitation and blower addition projects are known at this time to be immediately required. The combined budget estimate for those projects is $2,470,000. More study is recommended to develop better budget costs and determine the appropriate implementation schedule for the remaining capital improvements identified in this report.