

**The Consolidated Report of Activities  
for the quarter ended June 30, 2023**

For

The Interim Stipulated Order as Entered on November 29, 2022

By United States District Judge Henry T. Wingate

In Case Number 3:22-cv-00686-HTW-LGI

The United States v The City of Jackson, Mississippi

And

EPA Grant Numbers 84054501, 84060101 SDWA Section 1442 (b)

July 31, 2023

Prepared by Edward “Ted” Henifin, P.E.

The Interim Third-Party Manager

Of the City of Jackson’s Drinking Water System



## List of Figures

	<b>Title</b>	<b>Page</b>
<b>1</b>	<b>Billing Data</b>	<b>6</b>
<b>2</b>	<b>Payment Data</b>	<b>6</b>
<b>3</b>	<b>Projects Approved in First Phase SDWA 1442 (b) Grant</b>	<b>7</b>
<b>4</b>	<b>SDWA 1442 (b) Grant Funded Projects through June 2023</b>	<b>8</b>
<b>5</b>	<b>SDWA 1442 (b) Grant Funded Projects through July 2023</b>	<b>8</b>
<b>6</b>	<b>SRF Disaster Relief Supplementary Appropriation</b>	<b>9</b>
<b>7</b>	<b>SRF FFY-2024 BIL EC Priority List</b>	<b>9</b>
<b>8</b>	<b>SRF FFY-2024 BIL LSLR Priority List</b>	<b>9</b>
<b>9</b>	<b>JXN Water Speaking Engagements</b>	<b>11</b>
<b>10</b>	<b>MBE Spend</b>	<b>12</b>
<b>11</b>	<b>Find and Fix (6-Inch Diameter and Less) Status</b>	<b>15</b>
<b>12</b>	<b>Find and Fix (6-Inch Diameter and Less) Completed Map</b>	<b>15</b>
<b>13</b>	<b>Find and Fix (6-Inch Diameter and Less) In Construction Map</b>	<b>16</b>
<b>14</b>	<b>Meter Project Status</b>	<b>17</b>
<b>15</b>	<b>Social Media Reach</b>	<b>17</b>
<b>16</b>	<b>Precautionary Boil Water Notices</b>	<b>19</b>
<b>17</b>	<b>Financial Report for ITPM Budget (ISO Format)</b>	<b>21</b>
<b>18</b>	<b>ITPM Professional Budget Spend Details</b>	<b>22</b>
<b>20</b>	<b>Payroll Details for ITPM Professional Budget</b>	<b>22</b>
<b>21</b>	<b>Proposed Amendment to the ITPM Professional Budget</b>	<b>24</b>
<b>22</b>	<b>ITPM and JXN Water Organizational Chart</b>	<b>33</b>
<b>23</b>	<b>Water Production (Into Distribution System) MGD</b>	<b>34</b>
<b>24</b>	<b>Plant Operational Costs – Chemical and Power</b>	<b>35</b>
<b>25</b>	<b>Jacobs Staffing Plan with Current Status</b>	<b>36</b>
<b>26</b>	<b>Spending Plan with Source Funding</b>	<b>37</b>

## A. Purpose

The Interim Stipulated Order, Section 16.a. requires quarterly reporting to include the following components:

- i. A description of the projects and activities conducted during the reporting period to comply with the requirements of this Stipulated Order.
- ii. A summary of any delays encountered or anticipated that may affect the ITPM's performance or implementation of this Stipulated Order, including the Priority Project List, and any actions taken to address such delays.
- iii. Any modification to the Priority Project List or Implementation Schedule consistent with Paragraphs 15 (Priority Project List) and 18 (EPA Review);
- iv. An accounting of the expenditures from, additions to, and remaining balance of the ITPM Professional Budget.
- v. A projection of work to be performed pursuant to this Stipulated Order during the next or succeeding Quarter; and
- vi. In each Status Report filed in the month of January, except in the Status Report due January 31, 2023, an audited financial statement of the ITPM Professional Account, O&M Account, and Capital Improvements Account for the City's previous fiscal year. Any information revealing bank account numbers or constituting personally identifiable information shall be redacted.

The EPA Grant that funded the Interim Third-Party Manager also has quarterly reporting requirements that include the following:

- A comparison of actual accomplishments to the outputs/outcomes (these are deliverables, reports, milestones) established in the assistance agreement work plan for the period;
- The reasons why established outputs/outcomes were not met; and
- Additional pertinent information, including, when appropriate, analysis and explanation of cost overruns or high-unit costs.

As these reports have similar requirements, this consolidated report is intended to meet the purposes and requirements of both the ISO and the EPA Safe Drinking Water Act (SDWA) Section 1442 (b) grant.

## B. Introduction

On December 20, 2022, the US EPA awarded grant number 84054501 under the authority of the Safe Drinking Water Act, Section 1442 (b). The stated purpose of the grant is as follows:

***This agreement will provide support to the City of Jackson, MS, which is currently experiencing a drinking water emergency. The City entered into an Interim Stipulated Order with the Environmental Protection Agency and Department of Justice approved in Federal District Court on November 29, 2022, and this funding will be used to fulfill commitments established in the Order. The activities include establishing an Interim Third-Party Manager who will then hire support staff, enter into and maintain contracts to accomplish tasks required in the Order and***

***deemed necessary to address violations of the Safe Drinking Water Act. Anticipated deliverables include hiring staff, entering into and maintaining contracts allowing for proper operations and maintenance of the system. Expected outcomes include supporting the System in complying with the Safe Drinking Water Act, fulfilling commitments established through the Order, and ensuring residents of Jackson have clean and safe drinking water. Intended beneficiaries include approximately 160,000 persons served by the City of Jackson Public Water System. No subawards are included in this assistance agreement. City of Jackson Public Water System Emergency Drinking Water Grant.***

This report is the second quarterly report as required by the grant agreement and covers eligible activities that began April 1, 2023, through June 30, 2023. These reports are aligned with the reporting requirements of the Interim Stipulated Order that appointed the Interim Third-Party Manager funded by and managing this grant. This report is submitted for the Court’s review and approval.

### **C. PROJECTS AND ACTIVITIES CONDUCTED DURING THE REPORTING PERIOD**

The ISO includes thirteen priority projects for the ITPM to accomplish under the terms of the ISO. The activities conducted related to the priority projects (PP) are included in Section M of this report, beginning on page 42.

Beyond the priority project work, many activities have been conducted to comply with the requirements of the ISO during this reporting period. These include:

**Billing and Collections:** JXN Water continues to work to resolve billing issues that continue to hamper collection of water-related revenues. Meter change outs, poor data quality for customer accounts, the mixture of various meter types in service, and lack of adequately trained and skilled staff have allowed a significant number of bills to become “stranded” in the billing system. Other customers report unsuccessful efforts to even have bills generated over the past years. During the reporting period, a focused effort was made to get these bills released and out to customers. Unfortunately, this effort released hundreds of extremely high bills, that were based on erroneous estimates. Those with erroneous estimates were corrected and re-billed. Efforts continue to resolve all these issues which will continue to be challenges until all meters are changed out.

Billing data, which includes deposits for new services, miscellaneous charges (primarily connection fees) and actual water and sewer charges, is shown in Figure 1 and payment data in Figure 2 for the four months, December 2022 through June 2023. The collection rate for this period was 56.2 percent.

Figure 1 – Billing Data

## C2M Financial Overview: Billing Data

COMMERCIAL - Billing Data							
	Bills Generated	Deposit	Misc Service	Water	Wastewater	Monthly TOTAL	Sanitation
DEC '22	4,652	\$ 15,350.00	\$ 45,407.98	\$ 1,270,200.54	\$ 1,552,610.15	\$ 2,883,568.67	\$ 925.00
JAN '23	4,675	\$ 10,295.00	\$ 43,096.10	\$ 2,564,744.60	\$ 3,014,526.48	\$ 5,632,662.18	\$ 925.00
FEB '23	4,725	\$ 4,250.00	\$ 40,092.29	\$ 1,886,361.53	\$ 2,243,201.11	\$ 4,173,904.93	\$ 1,590.40
MAR '23	4,780	\$ 12,500.00	\$ 18,590.18	\$ 1,661,633.44	\$ 1,905,365.05	\$ 3,598,088.67	\$ 1,112.23
APR '23	5,121	\$ 8,200.00	\$ 37,692.84	\$ 2,037,484.54	\$ 2,299,778.53	\$ 4,383,155.91	\$ 1,884.40
MAY '23	5,173	\$ 3,650.00	\$ 8,523.97	\$ 1,637,637.52	\$ 1,682,097.21	\$ 3,331,908.70	\$ 999.00
JUN '23	4,895	\$ 6,785.00	\$ 6,639.94	\$ 1,386,232.49	\$ 1,539,888.66	\$ 2,939,546.09	\$ 1,369.00
<b>TOTAL:</b>	<b>34,021</b>	<b>\$ 61,030.00</b>	<b>\$ 200,043.30</b>	<b>\$ 12,444,294.66</b>	<b>\$ 14,237,467.19</b>		<b>\$ 8,805.03</b>
<b>\$26,942,835.15</b>							
RESIDENTIAL - Billing Data							
	Bills Generated	Deposit	Misc Service	Water	Wastewater	Monthly TOTAL	Sanitation
DEC '22	41,119	\$ 27,595.00	\$ 78,267.02	\$ 990,811.12	\$ 934,934.25	\$ 2,031,607.39	\$ 1,275,224.35
JAN '23	41,934	\$ 24,760.00	\$ 92,734.74	\$ 1,847,089.61	\$ 1,985,335.13	\$ 3,949,919.48	\$ 1,463,230.12
FEB '23	41,675	\$ 26,255.00	\$ 80,169.88	\$ 1,313,557.53	\$ 1,330,051.93	\$ 2,750,034.34	\$ 1,463,390.28
MAR '23	41,549	\$ 38,050.00	\$ 15,213.72	\$ 1,064,810.70	\$ 1,059,961.55	\$ 2,178,035.97	\$ 1,317,218.67
APR '23	44,289	\$ 16,160.00	\$ 36,403.04	\$ 1,485,000.39	\$ 1,568,936.41	\$ 3,106,499.84	\$ 2,184,377.89
MAY '23	44,465	\$ 22,630.00	\$ 33,469.40	\$ 1,312,400.93	\$ 1,294,074.11	\$ 2,662,574.44	\$ 1,625,695.90
JUN '23	44,034	\$ 32,500.00	\$ 10,407.54	\$ 1,223,322.26	\$ 1,009,151.85	\$ 2,275,381.65	\$ 1,331,067.84
<b>TOTAL:</b>	<b>299,065</b>	<b>\$ 187,950.00</b>	<b>\$ 346,665.34</b>	<b>\$ 9,236,992.54</b>	<b>\$ 9,182,445.23</b>		<b>\$ 10,660,205.05</b>
<b>\$18,954,053.11</b>							

JXN Water Billed Customers \$45,896,888.26 for Water related services over the past 7-months.



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Figure 2 – Payment Data

## C2M Financial Overview: Payment Data

COMMERCIAL - Payment Data							
	Bills Generated	Deposit	Misc Service	Water	Wastewater	Monthly TOTAL	Sanitation
DEC '22	4,652	\$ 6,640.00	\$ 491,307.46	\$ 1,197,071.60	\$ 1,295,079.73	\$ 2,990,098.79	\$ 301.48
JAN '23	4,675	\$ 16,620.00	\$ 185,070.73	\$ 919,516.19	\$ 944,881.94	\$ 2,066,088.86	\$ 521.58
FEB '23	4,725	\$ 5,690.00	\$ 195,811.48	\$ 794,557.91	\$ 817,637.95	\$ 1,813,697.34	\$ 389.77
MAR '23	4,780	\$ 9,700.00	\$ 582.39	\$ 971,418.88	\$ 1,032,465.32	\$ 2,014,166.59	\$ 825.77
APR '23	5,121	\$ 10,089.16	\$ 107,540.31	\$ 566,795.63	\$ 752,464.39	\$ 1,436,889.49	\$ 337.54
MAY '23	5,173	\$ 1,750.00	\$ 106,571.54	\$ 1,165,413.10	\$ 1,501,524.46	\$ 2,775,259.10	\$ 405.89
JUN '23	4,895	\$ 1,924.16	\$ 166,070.37	\$ 851,279.70	\$ 1,314,415.61	\$ 2,333,689.84	\$ 398.07
<b>TOTAL:</b>	<b>34,021</b>	<b>\$ 52,413.32</b>	<b>\$ 1,252,954.28</b>	<b>\$ 6,466,053.01</b>	<b>\$ 7,658,469.40</b>		<b>\$ 3,180.10</b>
<b>\$15,429,890.01</b>							
Residential - Payment Data							
	Bills Generated	Deposit	Misc Service	Water	Wastewater	Monthly TOTAL	Sanitation
DEC '22	41,119	\$ 24,146.92	\$ 167,497.05	\$ 722,533.10	\$ 538,246.35	\$ 1,452,423.42	\$ 930,914.68
JAN '23	41,934	\$ 26,706.07	\$ 176,258.33	\$ 808,883.30	\$ 657,954.26	\$ 1,669,801.96	\$ 996,594.91
FEB '23	41,675	\$ 24,900.00	\$ 136,969.04	\$ 803,913.89	\$ 660,937.96	\$ 1,626,720.89	\$ 956,384.11
MAR '23	41,549	\$ 31,835.00	\$ 8,601.00	\$ 859,414.57	\$ 711,351.12	\$ 1,611,201.69	\$ 1,088,521.71
APR '23	44,289	\$ 8,806.56	\$ 88,589.21	\$ 592,241.32	\$ 758,939.32	\$ 1,448,576.41	\$ 717,623.42
MAY '23	44,465	\$ 8,257.31	\$ 92,320.01	\$ 821,308.99	\$ 6,785.00	\$ 928,671.31	\$ 970,746.85
JUN '23	44,034	\$ 9,870.01	\$ 81,497.52	\$ 756,075.48	\$ 766,702.54	\$ 1,614,145.55	\$ 817,198.83
<b>TOTAL:</b>	<b>299,065</b>	<b>\$ 134,521.87</b>	<b>\$ 751,732.16</b>	<b>\$ 5,364,370.65</b>	<b>\$ 4,100,916.55</b>		<b>\$ 6,477,984.51</b>
<b>\$10,351,541.23</b>							

JXN Water Customers Paid \$25,781,431.24 for Water related services for the past 7-months. Revenue Collection Rate at 56.2%.



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**Obtaining Funding:** The ITPM worked with EPA to apply for the portion of the funding provided by the US Congress in the CAA, 2023 flowing through the authority of the SDWA, Section 1442 (b). The first phase grant was awarded on May 11, 2023, in the amount of \$115.1 million (of the appropriated \$150 million) as listed in Figure 3. The first \$44 million of this approved grant was made available on May 18, 2023. The accounting for dollars drawn down and spent during this reporting period is shown on Page 22.

**Figure 3 – Projects Approved in First Phase Application for SDWA 1442 (b) Grant**

Priority Project No.	Description	Total (Millions)		2023	2024	2025
5.a.ii	Valve and Hydrant Assessment	\$ 7.4		\$ 4.9	\$ 2.5	
5.a.vii	Service Line Inventory	\$ 0.1		\$ 0.1		
5.a.iv	Distribution System Leaks – Find and Fix	\$ 22.5		\$ 10.0	\$ 7.5	\$ 5.0
1	Phase 2 O&M Contract - Open Book Actual Cost	\$ 12.0		\$ 12.0		
1	Phase 3 O&M Contract - Long Term Fixed Price	\$ 63.0		\$ 13.0	\$ 25.0	\$ 25.0
6	System Stabilization and Sustainability Plan	\$ 2.0		\$ 2.0		
	ITPM Professional Budget	\$ 8.5		\$ 0.9	\$ 3.8	\$ 3.8
	<b>TOTAL 1442(b)</b>	<b>\$115.5</b>		<b>\$42.9</b>	<b>\$38.8</b>	<b>\$33.8</b>

**Detailed Accounting of 1442(b) Project Grant Funding:** Eligible expenses for the projects approved in the first phase of the SDWA 1442 (b) grant have been charged to the grant and the ITPM has drawn down Federal funding to pay these costs during the reporting period. Costs incurred after February 2, 2023 are eligible. The accounting is shown in Figure 4. A financial report through July (Figure 5) is included as funding had been pulled down for early July invoices, clearly showing funding has been fully obligated – actually overspent through July.

**Figure 4 – SDWA 1442 (b) Grant Funded Projects Through June 2023**

January - June, 2023				
	ITPM 2979	1442B PROJECTS	TOTAL ITPM 2979	TOTAL
Income				
Grants		15,869,545.80	15,869,545.80	\$15,869,545.80
<b>Total Income</b>	<b>\$0.00</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>
GROSS PROFIT	<b>\$0.00</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>
Expenses				
Emergency Water Supply		3,000.00	3,000.00	\$3,000.00
Find and Fix		5,804,570.42	5,804,570.42	\$5,804,570.42
O&M 1442		8,458,957.11	8,458,957.11	\$8,458,957.11
Valve Assessment		198,438.98	198,438.98	\$198,438.98
<b>Total Expenses</b>	<b>\$0.00</b>	<b>\$14,464,966.51</b>	<b>\$14,464,966.51</b>	<b>\$14,464,966.51</b>
NET OPERATING INCOME	<b>\$0.00</b>	<b>\$1,404,579.29</b>	<b>\$1,404,579.29</b>	<b>\$1,404,579.29</b>
NET INCOME	<b>\$0.00</b>	<b>\$1,404,579.29</b>	<b>\$1,404,579.29</b>	<b>\$1,404,579.29</b>

**Figure 5 – SDWA 1442 (b) Grant Funded Projects Through July 2023**

January 1 - July 28, 2023				
	ITPM 2979	1442B PROJECTS	TOTAL ITPM 2979	TOTAL
Income				
Grants		15,869,545.80	15,869,545.80	\$15,869,545.80
<b>Total Income</b>	<b>\$0.00</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>
GROSS PROFIT	<b>\$0.00</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>	<b>\$15,869,545.80</b>
Expenses				
Emergency Water Supply		48,146.16	48,146.16	\$48,146.16
Find and Fix		6,853,286.45	6,853,286.45	\$6,853,286.45
O&M 1442		8,458,957.11	8,458,957.11	\$8,458,957.11
Valve Assessment		576,508.98	576,508.98	\$576,508.98
<b>Total Expenses</b>	<b>\$0.00</b>	<b>\$15,936,898.70</b>	<b>\$15,936,898.70</b>	<b>\$15,936,898.70</b>
NET OPERATING INCOME	<b>\$0.00</b>	<b>\$ -67,352.90</b>	<b>\$ -67,352.90</b>	<b>\$ -67,352.90</b>
NET INCOME	<b>\$0.00</b>	<b>\$ -67,352.90</b>	<b>\$ -67,352.90</b>	<b>\$ -67,352.90</b>

**SRF Funding:** The balance of the funding from the CAA 2023 will be provided through the existing State Revolving Loan Fund (SRF). The ITPM developed a work plan for these funds for inclusion in the state’s intended use plan. The Mississippi Local Governments and Rural Water Systems Improvements Board approved the Intended Use Plan (IUP) for the DISASTER RELIEF SUPPLEMENTAL APPROPRIATION (a portion of the \$450 million appropriation – Figure 4) on June 30, 2023, but had not publicly advertised the 30-day public comment period for the Drinking Water Systems Improvements Revolving Loan Fund Program – Intended Use Plans. Funding should become available in Q3 after the closure of the public comment period.



**Figure 6 – SRF DISASTER RELIEF SUPPLEMENTARY APPROPRIATION**

VIII. PRIORITY LIST						
Supplemental Appropriation Priority List						
Project	Project Description	Priority Points	Service Area Population	Loan Amount Requested	Statewide Cum. \$	
<b>Category III: Primary Drinking Water Standards Projects</b>						
City of Jackson	Intake Structure Repair	27746	155,000	\$5,000,000	\$5,000,000	
<b>Category IX: Existing Facilities Upgrade (Meeting Primary Standards)</b>						
City of Jackson	Distribution System Analysis	13873	155,000	\$6,000,000	\$11,000,000	
City of Jackson	Distribution System Optimization	12332	155,000	\$32,500,000	\$43,500,000	
City of Jackson	Small Diameter Pipe Replacement	5549	155,000	\$50,000,000	\$93,500,000	
<b>Category XIII: Other</b>						
City of Jackson	Debt Retirement - SRF Loans*	215	155,000	\$24,653,146	\$118,153,146	
City of Jackson	Debt Retirement – Meter Project		155,000	TBD		
City of Jackson	Debt Retirement - Private		155,000	TBD		

\*This includes the current remaining principal balance (\$14,881,923) of refinanced loan 2, which consolidated debt with loan 1, and the balance drawn (\$9,771,223) from loan 3. An undrawn balance of \$18,182,077 currently remains on loan 3's active project.

Note: All projects appearing on the IUP are associated with this public drinking water system. Projects listed above are based in good faith from representation provided by the borrower. The program is a reimbursement program. Request for reimbursement will be reviewed to ensure conformity with eligibility requirements and compliance with applicable state and federal laws and regulations before funds are reimbursed.

The ITPM responded to a solicitation by the Mississippi Local Governments and Rural Water Systems Improvements Board for two new programs funded as part of the Bi-partisan Infrastructure Law (BIL) on June 19, 2023, requesting funding for Lead Service Line Replacements (LSLR) and for addressing Emerging Contaminants. Both were included in the IUPs, but at a fraction of the total project cost. The LSLR project is estimated at \$88 million across a 10-year construction period. The Emerging Contaminant project, scoped to add Granular Activated Carbon (GAC) filtration to the OB Curtis Water Treatment Plant, is estimated at \$119 million.

**FIGURE 7 – SRF FFY-2024 BIL EC PRIORITY LIST**

Project	Project Description	Zip Code	Priority Points	Service Area Population	Eligible PF Amount	Loan Amount Request	Statewide Cum. \$
<b>Category IX: Existing Facilities Upgrade (Meeting Primary Standards)</b>							
Jackson, City of	Study, Design & Construction, Emerging Contaminants	39216	11099	155000	\$5,000,000	\$5,000,000	\$5,000,000

**FIGURE 8 - SRF FFY-2024 BIL LSLR PRIORITY LIST**

Project	Project Description	Zip Code	Priority Points	Service Area Population	Eligible PF Amount	Loan Amount Request	Statewide Cum. \$
<b>Category XIII: Other</b>							
Jackson, City of	Replacement of Lead Service Lines	39216	110	150000	\$500,000	\$5,000,000	\$26,427,135
Mount Olive, Town of	Surveying and Inventorying Lead Service Lines	39119	102	982	\$450,000	\$1,000,000	\$27,427,135
Fayette, City of	Surveying & Inventory of Lead Service Lines	39069	0	0	\$56,250	\$125,000	\$27,552,135
Collins, City of	Surveying and Inventorying Lead Service Lines	39428	0	4000	\$175,000	\$500,000	\$28,052,135

**Disputed Debt:** The ITPM inherited nearly \$56 million in billing arrearages. Many accounts had arrearages dating back years due to the many metering and billing challenges over the past decade in Jackson. Almost all account arrearages could be attributed, in whole or in part, to those challenges or to billing for inadequate or non-existent services. Hundreds of these bills had been disputed prior to the appointment of the ITPM, and the disputes remained unresolved. Lacking adequate information to defend prior billing or resolve disputed bills, the ITPM instituted a program to compromise debt that pre-dated the ITPM appointment for all disputed accounts. To accomplish this, the ITPM retained Promise Pay to gather attestations from customers that had aging arrearages (prior to December 1, 2022) and that had disputed these charges. As of June 30, 2023, a total of 8,018 accounts attested their dispute through Promise Pay and \$18,546,102.23 in disputed charges were compromised (removed from individual accounts).

**Low Income Household Water Assistance Program (LIHWAP):** For debt that accrued post the appointment of the ITPM, the ITPM retained Promise Pay to identify qualified applicants and apply for the LIHWAP grant funding on behalf of JXN Water. As of the end of Q2, 412 accounts received Federal LIHWAP grant assistance through the state for a total amount of \$788,988.43.

**Community Engagement:** The ITPM participated in numerous meetings to discuss the ISO and the ITPM role in stabilizing and restoring the Jackson water system. The ITPM has directly participated in more than 30 community events as listed in Figure 9.

**FIGURE 9 – JXN Water Speaking Engagements**

12/05/2022	Mayor's Press Conference
12/07/2022	Town Hall at Forest Hill
12/13/2023	Jackson People Assembly - Via Zoom
12/14/2022	Delegation Lunch with John Horhn
1/2/2023	Councilman Banks Town Hall
1/8/2023	Community meeting at the Cedars
1/10/2023	Fondren Renaissance Board Meeting
1/11/2023	WMPR Radio Show - Coffee with Othor Cain
1/17/2023	Greater Belhaven Community Meeting
1/18/2023	Dinner with Chamber Board
1/23/2023	WMPR John Horhn Radio Show Guest
1/25/2023	Community Foundation - Board of Trustees
1/26/2023	Inclusive Business Participation Open House
1/27/2023	Presser to announce Financial Management Plan
2/13/2023	Jayne Avenue Neighborhood Association
2/14/2023	BOMA Mississippi Luncheon (Building Owners and Managers Association)
2/15/2023	State Street Partners and President of Millsaps
2/17/2023	Lunch with Ben Allen and others
2/21/2023	Hinds County Board of Supervisors
2/24/2023	Press Conference at Hinds Community College - Scholarship Announcement and Jacobs Contract
2/24/2023	WMPR MPower Hour (Mumford's) Radio Show Guest
3/7/2023	Millsaps Town Hall
3/21/2023	Byram Chamber of Commerce Luncheon
4/4/2023	AWWA Conference in Mobile
4/14/2023	National Association of Black Journalists - Regional Conference
5/10/2023	Podcast Interview with EJ Russell
5/17/2023	MCAMI (Minority Contractors Association of Mississippi, Inc)
5/18/2023	Mississippi Rapid Response Coalition (Danyelle Holms)
5/18/2023	Eastover Neighborhood Association
6/6/2023	Millsaps Alumni Group
6/13/2023	IREM Mississippi Luncheon (Institute of Real Estate Management)
6/19/2023	WMPR John Horhn Radio Show Guest
6/27/2023	Phoenix Club of Jackson Luncheon

**Minority Business Enterprise Engagement:** JXN Water continues to focus on MBE for direct contracts. Eliminating bonding challenges and paying invoices within days has made JXN Water friendly to MBEs. The spend to date has been significant, well over \$2.5 million, 11 percent of the total spend to date. The Jacobs Operations and Maintenance contract is by far the largest contract with JXN Water. There were no MBE firms available to meet that need. When that contract value (paid to date) is removed from the total spend, MBE spend accounts for 18 percent of the total JXN Water spend.

At the end of the reporting period, the ITPM was in negotiations with a local firm to assist with advancing MBE efforts in the coming months. One goal is to create small Black owned firms to provide some of the specialized skills that are not currently available in the Jackson area. Examples include valve and hydrant maintenance and piping contractors. These needs will go on perpetually in Jackson, long after the Interim Stipulated Order is finished.

**FIGURE 10 – MBE SPEND**

<b>Firm</b>	<b>Total Paid to Date</b>			
R&L Unlimited	\$ 73,726.00			
Fahrenheit Creative Group	\$ 220,000.00			
GCW Paving	\$ 1,043,820.00			
Love Trucking	\$ 13,230.00			
IMS	\$ 282,304.00			
Hardaway Realty	\$ 39,000.00			
Hydroflow Solutions	\$ 86,100.00			
Kelly Factory	\$ 1,800.00			
SD Systems	\$ 10,600.00			
Phoenix Security	\$ 170,844.28			
Promise Pay	\$ 709,033.54			
	<b>\$ 2,650,457.82</b>			
Total JXN Water Spend to date	\$ 24,796,587.29	<b>11%</b>	<b>Overall MBE percent by spend</b>	
Jacobs Contract	\$ 9,959,733.05			
Total JXN Water Spend w/o Jacobs	\$ 14,836,854.24	<b>18%</b>	<b>MBE percent by spend with Jacobs removed.</b>	

**Water and Sewer Billing Administration (WSBA):** Work continues to consolidate operations to minimize hand offs and responsibilities with customer billing and collections. A minimized staff has relocated from the Metro Center to JXN Water offices on Greymont Ave in Jackson. These are back-office functions dealing with resolving issues that require more research than a Customer Service Representative can provide. No payments are received at that location. In person payments can be made at anyone of the 15 locations listed on the reverse side of every bill. JXN Water continues to encourage customers to take advantage of the digital self-service (DSS) for easy on-line payment options. Additionally, self-service kiosks are on order and will be placed in convenient locations to expand customer access points for those paying in cash. These are scheduled to be in place in Q3.

The billing system is undergoing an update to move to a fully cloud-based solution that will be supported with a single contractor, BOSS. Go-Live for the update/conversion is scheduled for Q4. A project kick-off workshop was held in Q2. This meter-to-cash solution will resolve many issues that have plagued Jackson's billing issues for years.

**Call Center:** The call center operation, formerly a part of WSBA, was outsourced to ProTel during Q2. On the effective date of the ISO (November 29, 2022) the staff at WSBA, including the call center, had been reduced from nearly 70 full-time employees to fewer than 25. Callers to WSBA were routinely experiencing extremely high wait times, measured in hours. Without time to build a call center from essentially the ground up, the ITPM decided to contract out the call center function. Amazingly, a full-service contract call center was found in Central Mississippi. ProTel has been in business supporting clients throughout Mississippi for more than 30 years. A contract for 24/7 call center operations was developed and the JXN Water customer service number (601-500-5200) went live on June 5, 2023. By all measures, the call center is working very well with greatly improved services levels. Through July 10, 2023 (data was collected on this date), the call center had handled 10,984 M-F working hour calls since Go-Live on June 5 (23 weekdays). An average of over 470 per day with an average wait time of 1 minute and 46 seconds. Another 3,330 calls have been handled afterhours and on weekends. The call center continues to receive unsolicited positive feedback from JXN Water customers.

The call center can address many billing questions (majority of calls), dispatches the metering contractor for meter issues, dispatches appropriate resources for leaks, low pressure, discolored water, etc. JXN Water and ProTel are working to build a tracker to report calls by type with future quarterly reports.

**Purchase of Building:** The ITPM purchased a building at 1054 Greymont Ave to house administrative functions of JXN Water. As an interim entity, the ITPM could not enter into a long-term lease for space and found short-term leasing to be very expensive. In discussions with EPA, it was determined the purchase of an administrative building was an eligible expense under the Community Grant program. As a result, to conserve limited O&M funding, the ITPM decided to purchase a building.

1054 Greymont was developed as a shared workspace in 2020. JXN Water was leasing short-term space in the building when the ITPM approached the owner about purchasing the entire building. A purchase agreement was negotiated, appraisals obtained, and JXN Water closed on the building in Q2. The schedule was accelerated to allow relocation of the WSBA staff from the Metro Center before another summer without air conditioning. JXN Water and EPA are very close to completing all required steps for award of the Community Grant, which is anticipated in Q3. The building is an investment that can be sold if not needed after the ISO has been completed.

**Mississippi Municipality & County Water Infrastructure Grant Program Act (MCWI):** The first reimbursements requests have been submitted for one of the two approved projects. The ITPM continues to work with the MCWI staff to receive that initial reimbursement.

The two projects approved and underway are:

- **OB Curtis Filter Improvements** – This project was designed and bid prior to the effective date. The ITPM made award after the effective date to the low bidder, Hemphill Construction. The

work includes full rehabilitation of conventional filter 5 to place that filter back into service after years of dis-repair. This will increase the capacity of the conventional side of OB Curtis by 16 percent. Construction has begun. Other details can be found in the priority project status updates at the end of this report.

- **OBC and JHF Chemical Feed System Improvements** – This project will replace all the chemical feed systems to include pumps, pipes, tanks (as required) and other associated controls and equipment. The first phase of this is focused on OB Curtis. Additionally, this contract will replace the gaseous chlorine system with an on-site hypochlorite generation system, significantly improving safety. This project is nearing the 30 percent design completion and is being designed by HDR. More details can be found in the PPL status update at the end of this report.

**System Pressure Improvements:** Work to address system pressure challenges continued throughout the reporting period. Wachs Water has been working with JXN Water staff to continue to find valves, make repairs, and change positions (typically from fully closed to fully open). To date:

- 994 valves fully exercised
- 4 op nut repairs completed
- 57 valves uncovered
- 2 frozen valves repaired
- 124 valve positions changed (from closed or partially closed to open)

The system remains vulnerable but stable with pressure improvements noted throughout the system. A few outlying areas continue to have pressure issues including Merit Health Hospital, the Shannon Dale Road area off Forest Hill Road, and the Henley Young Juvenile Detention Center. Each of these are currently being addressed with solutions scheduled to be in place in Q3. The hospital will have a new supply connection, the Shannon Dale Road area will convert from the surface water system to the well water system, and the juvenile detention center, currently served with emergency tankers by JXN Water, will benefit from construction of a new loop connection in the distribution system.

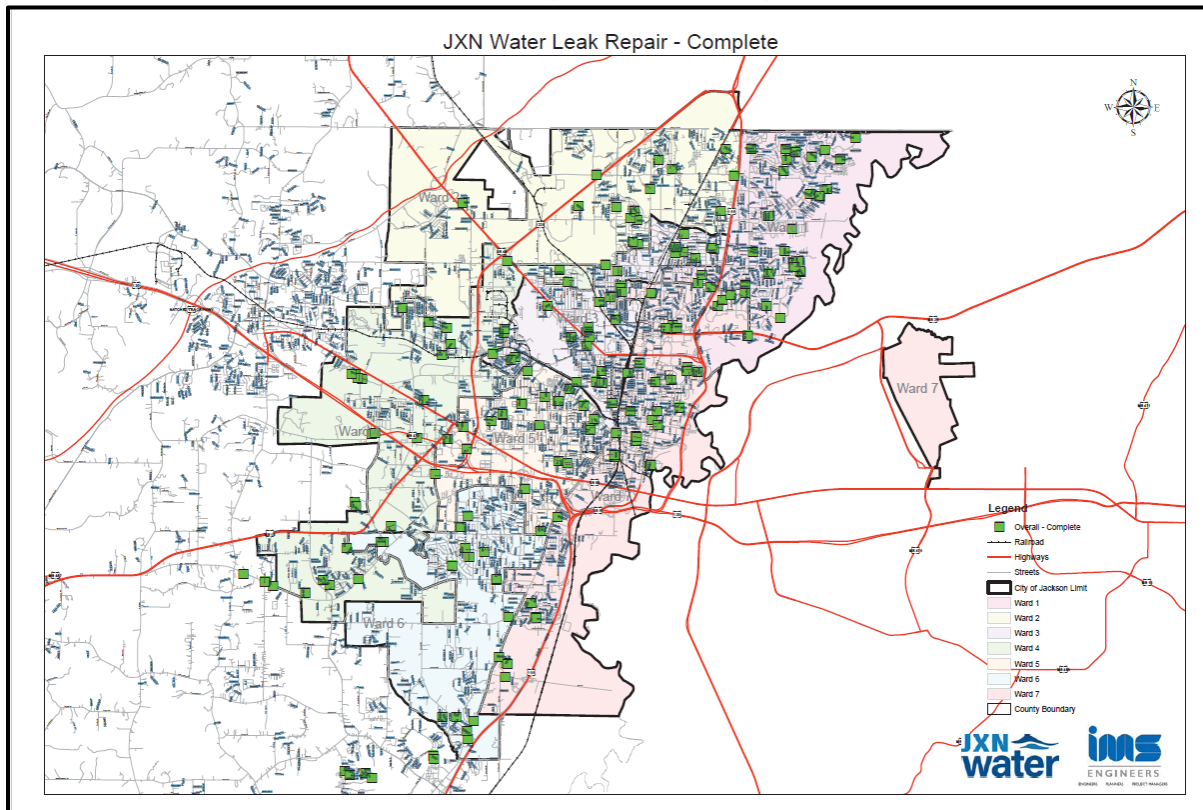
**Leak Find and Fix:**

During the reporting period the Find and Fix program stood up and made significant progress. Larger leaks are included in the Priority Project reporting at the end of this report. Small diameter leaks (6-Inch and less) are reported and mapped here. Using a combination of local contractors, JXN Water completed 208 repairs with an additional 257 under construction at the end of the quarter.

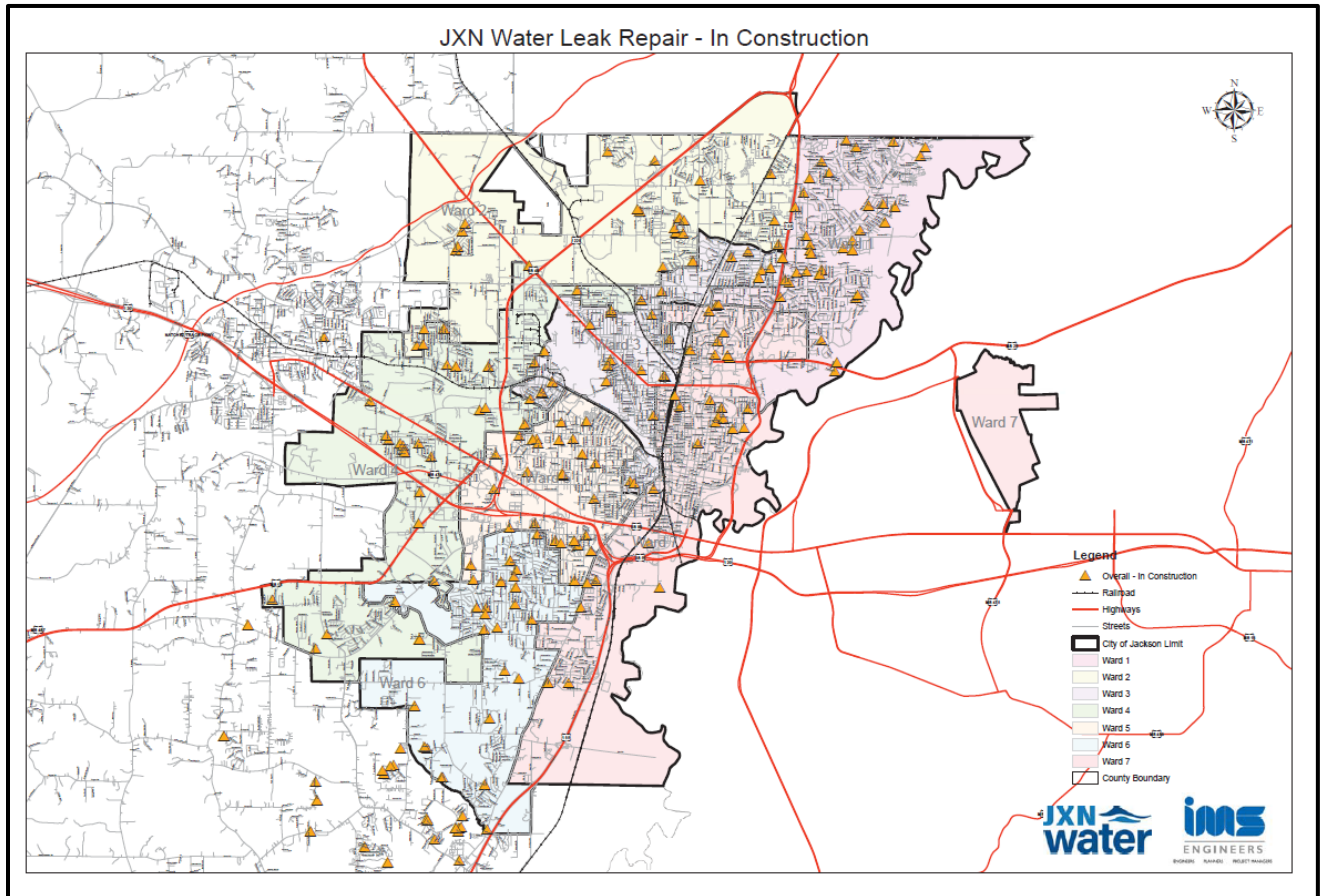
**Figure 11 – Find and Fix (6-inch diameter and less)**

ITEM NO.	REPAIR TYPE	April 2023 In Construction	April 2023 Complete	May 2023 In Construction	May 2023 Complete	June 2023 In Construction	June 2023 Complete
1	CUT REPAIR	39	3	21	44	16	87
2	HYDRANT- LEAK	4	0	11	0	23	0
3	METER-LEAK	18	13	185	15	198	31
4	TAP & METER INSTALL	12	0	7	17	2	23
5	VALVE LEAKING & REPAIRS	0	0	3	0	5	0
6	WATER-LEAK	32	16	31	44	13	67
	<b>Total</b>	<b>105</b>	<b>32</b>	<b>258</b>	<b>120</b>	<b>257</b>	<b>208</b>

**FIGURE 12 – FIND AND FIX (6-INCH AND LESS) COMPLETED MAP**



**FIGURE 16 – FIND AND FIX (6-INCH AND LESS) IN CONSTRUCTION 6/30/2023**

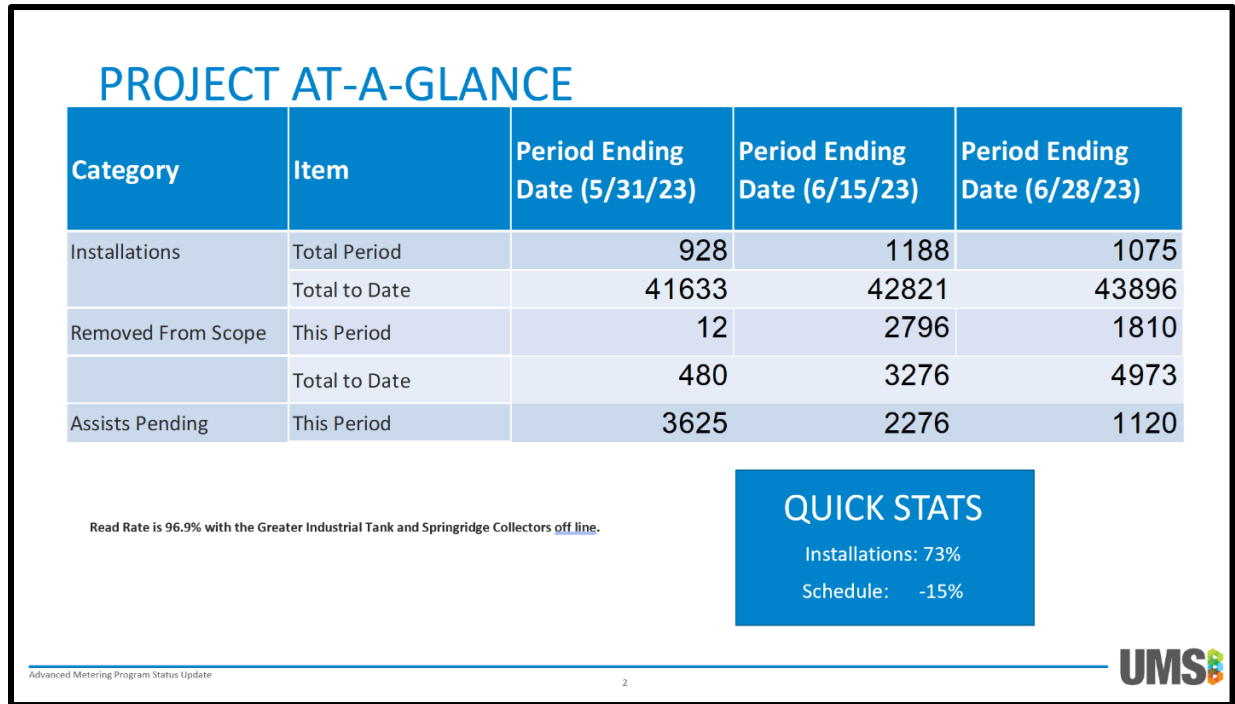


**Metering:** The contract to install Automated Metering Infrastructure (AMI) continued in the quarter. The project is now approximately 73 percent complete with over 43,000 meters installed. While the project continues to experience delays and is nearly 15 percent behind schedule, the contractor is projecting that more than 50,000 meters will be installed by the end of the next quarter. One of the biggest challenges continues to be data cleansing of the billing system. The ITPM retained Horne, LLP, to assist with data clean up in the reporting period. To date the installed meters are reporting nearly 97 percent successfully. Issues still exist around power to two collectors and the ITPM and metering contractor are working together to resolve those. Once resolved, the percentage of successful reads will increase significantly. The project status is summarized in Figure 9.



Complete meter operations were successfully outsourced to UMS. The contract consolidates all meter maintenance, repairs, reading, installs, etc., with a single source, eliminating hand-offs, inefficiencies and finger pointing.

**Figure 14 – Meter Project Status**



**Judicial Activities:** The ITPM participated in three status conferences, and three meetings with Judge Wingate and his clerk during the reporting period.

**Communications:** Additional communications resources have been added to the ITPM staff and consulting team. All communication efforts are coordinated by Ameerah Palicios with HDR. Jacobs hired an on-site communications specialist, Tepricka Morgan, who while focused on Jacobs’ specific needs will be supporting the ITPM needs as well. The Fahrenheit Creative Group continues to provide significant creative work, media monitoring, and campaign design and execution. Communications efforts will continue to mature in the coming months. A communications strategy workshop was held at the end of June and the Strategic Communications Plan should be complete in Q3. Articles of interest can be found on the JXN Water website and social media summary can be found in Figure 15

Figure 15 – Social Media Reach

LINKS	TOTAL ENGAGEMENT	AVG. ENGAGEMENT	JOURNALIST SHARES
9683	123,570	19	1,571
JOURNALIST REACH	UVM		
60,201,126	25,039,143,961		

Insights by 

**Precautionary Boil Water Notices:** There have been no city-wide precautionary boil-water notices since December 2022. Smaller impact BWN will continue as pipe breaks and repairs are made throughout the normal course of business. A listing of the BWNs issued during the reporting period can be found in Figure 16.

**FIGURE 16 – Precautionary Boil Water Notices**

Boil Water Notice Date	Surface Water System	Well System	Area Impacted	# Connections
4/6/2023	X		Waterford Drive, Village Green Circle, Moss Forest Circle [50-199] Autumn Hill Drive	100
4/7/2023	X		Waterford Drive, Village Green Circle, Moss Forest Circle [50-199] Autumn Hill Drive	100
4/11/2023		X	[9800-9899] Crooked Creek Boulevard, Crooked Creek Circle Ashley Cove, Adam Cove, Clear Creek Cove, Pebble Cove	100
4/14/2023	X		{3100-3199} Woodbine Street	10
4/17/23		X	[3800-4499] Henderson Rd, Myrtle Drive, Velma Drive Tuesday Lane, Bellwood Grove, Oak Vineyard Drive, Big Oak Drive Oak Hollow Cove	100
4/18/23		X	<del>Greenmont</del> Drive	100
4/19/23		X	Statesman Drive	10
4/19/23	X		[1500-1699] Belmont Street	15
4/21/23	X		<del>Brackenshire</del> Circle	25
4/21/23		X	Archer Way; Byram	15
4/28/23	X		[5000-5799] I-55 South, East Frontage Road, Holiday Rambler Lane Holiday Lane, Southpoint Drive, Executive Boulevard Evangel Street	25
4/28/23		X	Woodlark Drive	25
5/4/23	X		Meadows Circle	10
5/4/23	X		5000-5799] I-55 South, East Frontage Road, Holiday Rambler Lane Holiday Lane, Southpoint Drive, Executive Boulevard, Evangel Street	25
5/4/23	X		Meadows Circle	10
5/4/23	X		[1000-1199] W Pearl Street	10
5/23/23		X	Lake Dockery subdivision	200
6/1/23	X		[2100-2299] Castle Hill Drive [2200-2299] Breckenridge Drive	25
6/1/23		X	Tynes Drive Ryan Cove	50

#### **D. SUMMARY OF DELAYS ENCOUNTERED OR ANTICIPATED**

No delays that should impact the achievement of the objectives of the ISO were encountered during the reporting period.

#### **E. MODIFICATIONS TO THE PRIORITY PROJECT LIST OR SCHEDULE**

There are a few projects that appear to have some schedule slippage due to a variety of issues. Primarily it appears a request for modification will be necessary for the following projects:

- PPL 3 – Corrosion Control – A new Optimized Corrosion Control Plan has been proposed and will likely result in an extension through December 2023.
- PPL 7 – SCADA – Evaluation should meet date per schedule, but construction cannot be scheduled until more details are clarified with the 30 percent design (BODR)
- PPL 8 – Chemical Feed Replacement – This project grew significantly in scope from a component repair to a full system replacement. Design is at 30 percent and final completion is currently scheduled for late 2024
- PPL 9 – Chlorine System Replacement – This is included with the design package for PPL 8. At 30 percent the construction schedule has not been determined. A CMAR delivery is being considered to expedite this portion of the project.

A formal request to modify these schedules will be submitted in accordance with the ISO in the coming weeks.

#### **F. ACCOUNTING OF ITPM PROFESSIONAL BUDGET**

The summary financial report through the end of the second quarter is shown in Figure 17. All budget categories are at or below the annual percentage (seven months cumulative) 58.3 percent of the year. The ITPM staff wages and fringes are below budget as the City has not invoiced for the share of salary and benefits they are providing.

Details of the ITPM Professional Budget spending can be found in Figure 22.

Figure 21 - Financial Report from 12/01/22 through 6/30/23 (58.3% of budget year)

	BUDGET	EXPENSE THRU 6/30	BALANCE	PERCENT OF BUDGET
ITPM Compensation - \$33,333.33/month				
<ul style="list-style-type: none"> <li>• Salary</li> <li>• Living expenses</li> <li>• Travel expenses</li> </ul>	\$400,000			
<b><i>ITPM Compensation Sub-total</i></b>	<b><i>\$400,000</i></b>	\$233,333.31	<b><i>\$166,666.69</i></b>	<b><i>58.3%</i></b>
ITPM Staff Compensation and Expenses				
<ul style="list-style-type: none"> <li>• Local deputy administrator/senior project manager</li> <li>• Project managers/contract inspectors</li> <li>• Contract administrator/invoice processor</li> <li>• Environmental compliance manager</li> <li>• Other staff as needed</li> </ul>	\$725,000	\$326,175.44		
<ul style="list-style-type: none"> <li>• Payroll taxes, fringe benefits, and human resources administration</li> </ul>	\$385,500	\$38,226.48		
<b><i>ITPM Staff Compensation and Expenses Sub-total</i></b>	<b><i>\$1,110,500</i></b>	\$364,401.92	<b><i>\$746,098.08</i></b>	<b><i>32.8%</i></b>
ITPM Contractor and Consultant Support and Services				
<ul style="list-style-type: none"> <li>• General and regulatory legal support</li> </ul>	\$200,000	\$102,464.67		
<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Financial advisor</li> </ul>	\$300,000	\$94,343.41		
<ul style="list-style-type: none"> <li>• Engineering</li> <li>• Information technology and website</li> </ul>	\$450,000			
<ul style="list-style-type: none"> <li>• Community engagement</li> <li>• Communications</li> <li>• Pricing/rates</li> <li>• Other contractors and consultants as needed</li> </ul>	\$450,000	\$52,080.00 \$154,686.79		
<b><i>ITPM Contractor and Consultant Support and Services Sub-total</i></b>	<b><i>\$1,400,000</i></b>	\$403,574.87	<b><i>\$996,425.13</i></b>	<b><i>28.8%</i></b>
Other Direct Expenses				
<ul style="list-style-type: none"> <li>• Phones and computers for ITPM and staff</li> <li>• Professional liability insurance</li> <li>• Office supplies/miscellaneous consumables</li> <li>• Other direct expenses as needed</li> </ul>				
<b><i>Other Direct Expenses Sub-total</i></b>	<b><i>\$66,000</i></b>	\$0	<b><i>\$66,000</i></b>	<b><i>0%</i></b>
<b><i>OVERALL ITPM PROFESSIONAL BUDGET TOTAL</i></b>	<b><i>\$2,976,500</i></b>	\$1,001,310.10	<b><i>\$1,975,189.90</i></b>	<b><i>33.6%</i></b>

**Figure 17 – ITPM Professional Budget Spend Details**

<b>JXN Water</b>				
Profit and Loss by Customer				
January - June, 2023				
	ITPM 2979	ITPM PROFESSIONAL (EPA)	TOTAL ITPM 2979	TOTAL
<b>Income</b>				
Grants		933,153.65	933,153.65	\$933,153.65
<b>Total Income</b>	<b>\$0.00</b>	<b>\$933,153.65</b>	<b>\$933,153.65</b>	<b>\$933,153.65</b>
<b>GROSS PROFIT</b>	<b>\$0.00</b>	<b>\$933,153.65</b>	<b>\$933,153.65</b>	<b>\$933,153.65</b>
<b>Expenses</b>				
Contractual				\$0.00
Accounting		19,343.41	19,343.41	\$19,343.41
Billing		52,080.00	52,080.00	\$52,080.00
Communications/PR		154,686.79	154,686.79	\$154,686.79
Financial Management		75,000.00	75,000.00	\$75,000.00
Legal		102,464.67	102,464.67	\$102,464.67
<b>Total Contractual</b>		<b>403,574.87</b>	<b>403,574.87</b>	<b>\$403,574.87</b>
Payroll Expenses				\$0.00
ITPM Compensation		233,333.31	233,333.31	\$233,333.31
ITPM Employee Wages		326,175.44	326,175.44	\$326,175.44
Taxes		38,226.48	38,226.48	\$38,226.48
<b>Total Payroll Expenses</b>		<b>597,735.23</b>	<b>597,735.23</b>	<b>\$597,735.23</b>
<b>Total Expenses</b>	<b>\$0.00</b>	<b>\$1,001,310.10</b>	<b>\$1,001,310.10</b>	<b>\$1,001,310.10</b>
<b>NET OPERATING INCOME</b>	<b>\$0.00</b>	<b>\$ -68,156.45</b>	<b>\$ -68,156.45</b>	<b>\$ -68,156.45</b>
<b>NET INCOME</b>	<b>\$0.00</b>	<b>\$ -68,156.45</b>	<b>\$ -68,156.45</b>	<b>\$ -68,156.45</b>

**Figure 20 – Payroll Details for ITPM Professional Budget**

Name	Salary	Bonus	Allowance	Reimbursement	Other Earnings	Total
*Abdul-Tawwab, Tariq	\$46,153.86	-	\$1,963.64	-	\$118,224.68	\$166,342.18
Byrd, Terence	\$46,153.80	-	-	-	-	\$46,153.80
Chambers, Orlando	\$11,069.19	-	-	-	-	\$11,069.19
Henifin, Ted	\$0.00	-	-	\$66,358.66	\$166,974.65	\$233,333.31
Hillman, Jordan	\$70,000.00	-	\$6,452.76	-	-	\$76,452.76
Love, Marcus	\$4,240.18	\$9.82	-	-	-	\$4,250.00
Whittsett, Tiana	\$17,753.65	-	\$4,153.86	-	-	\$21,907.51
<b>Total</b>	<b>\$195,370.68</b>	<b>\$9.82</b>	<b>\$12,570.26</b>	<b>\$66,358.66</b>	<b>\$285,199.33</b>	<b>\$559,508.75</b>

A detail of payroll data is included in Figure 22. The spending shown for payroll does not include reimbursement to the City of Jackson for salaries and benefits for these employees. Employment of these key people is critical to the success of the ISO. As an interim order, pension and benefits are not practical to establish and asking people to give up those to join JXN Water would discourage many candidates. As a result, the ITPM negotiated an arrangement with the City of Jackson to allow these employees to continue to receive their City salaries and all benefits to be fully reimbursed by the ITPM. No reimbursement request (invoice) was presented in Q2. Future reports should include these costs.

#### **G. AMENDED ITPM PROFESSIONAL BUDGET**

The 1442(b) grant that funded the ITPM Professional Account was based upon a workplan that was developed in November 2022, before anyone had a good idea of what would be required to accomplish the goals of the ISO. The ITPM will be requesting the following modifications to the ITPM Budget in accordance with the ISO as shown in Figure 21.

- Change the original listed positions to the ones shown in Figure 21
- Change the contracts originally listed to the ones in Figure 21
- Eliminate the following categories of expenses:
  - Travel
  - Supplies
  - Other (Professional Liability Insurance)
- Total Grant Value remains unchanged from approved total - \$2,670,000
- Based on current spend, request the term extend to March 31, 2024, without a change in value.

#### **H. PROPOSED BUDGET FOR 2024**

Based on current experience, the ITPM is recommending the 2024 budget remain flat, consistent with the amendment as proposed in Section G herein. The 2024 budget period should align with the proposed eligibility extension, starting on April 1, 2024 and running through March 31, 2025.

**Figure 21 – Proposed Amendment to the ITPM Professional Budget**

#NAME?									
Grant Budget									
			Original	Amended Budget					
Personnel			\$ 950,000.00	\$ 1,295,342.18					
Fringes			\$ 220,000.00	\$ 132,800.00					
Travel		Eliminated from Grant	\$ 4,000.00	\$ -					
Equipment			\$ -	\$ -					
Supplies		Eliminated from Grant	\$ 54,000.00	\$ -					
Contractual			\$ 1,430,000.00	\$ 1,241,000.00					
Construction			\$ -	\$ -					
Other		Eliminated from Grant	\$ 12,000.00	\$ -					
			\$ 2,670,000.00	\$ 2,669,142.18					
Personnel and Fringes Details									
<b>Name</b>		<b>Position</b>	<b>City Salary</b>	<b>JXN Water Salary</b>	<b>Total</b>	<b>Car Allowance</b>	<b>Estimated Fringes</b>	<b>Monthly Cost</b>	<b>Projected thru 12/23</b>
Jordan Hillman	January	Chief Operating Officer	\$ 70,000.00	\$ 130,000.00	\$ 200,000.00	\$ 12,000.00	\$ 40,000.00	\$ 20,000.00	\$ 240,000.00
Terence Byrd	January	Water Systems Program Manager	\$ 50,000.00	\$ 100,000.00	\$ 150,000.00	JXN Truck	\$ 20,000.00	\$ 14,166.67	\$ 170,000.00
Tiana Whitsett	February	Administrative Services Manager	\$ 36,000.00	\$ 84,000.00	\$ 120,000.00	\$ 12,000.00	\$ 26,400.00	\$ 12,200.00	\$ 134,200.00
Aisha Carson	August	Social Strategist	\$ 120,000.00	\$ 120,000.00	\$ 120,000.00	\$ 12,000.00	\$ 12,000.00	\$ 11,000.00	\$ 66,000.00
Orlando Chambers	February	Water Distribution Project Manager	\$ 38,000.00	\$ 42,000.00	\$ 80,000.00	JXN Truck	\$ 15,200.00	\$ 7,933.33	\$ 87,266.67
Marcus Love	April	Assistant Water Distribution Project Manager	\$ 33,000.00	\$ 32,000.00	\$ 65,000.00	JXN Truck	\$ 13,200.00	\$ 6,516.67	\$ 58,650.00
Tariq Abdul-Tawwab	Jan - Mar	Chief Experience Officer	\$ -	\$ 160,342.18	\$ 160,342.18	\$ 6,000.00	\$ 6,000.00	\$ -	\$ 166,342.18
			\$ 668,342.18	\$ 895,342.18	\$ 895,342.18	\$ 36,000.00	\$ 132,800.00	\$ -	\$ 922,458.85
ITPM Compensation				\$ 400,000.00	\$ 400,000.00				
				\$ 1,295,342.18				\$ 71,816.67	\$ 372,883.33
Contractual			Est Annual Budget	Est Monthly Cost					
Legal - AquaLaw			\$ 100,000.00						
Legal - Forman Watkins			\$ 90,000.00						
Accounting - MCL			\$ 80,000.00						
Compliance - Horne			\$ 150,000.00						
Billing		Southern Infrastructure Solutions	\$ 150,000.00						
Communications		Fahrenheit	\$ 300,000.00						
		Falcon	\$ 13,000.00						
		HDR	\$ 153,000.00						
		KSO	\$ 5,000.00						
Financial Advisor		PFM	\$ 200,000.00						
			\$ 1,241,000.00	\$ 103,416.67					

**I. PREVIOUS PROJECTION OF WORK TO BE PERFORMED DURING THIS REPORTING PERIOD**

The quarterly report for the quarter ended March 31, 2023, included the following list of work to be completed during this reporting period. Progress is noted for each item below:

- Developing a sustainable water maintenance pipe repair process – adding new on-call contract resources available to JXN Water - **DONE**
- Implementing a Work Order System – **STILL IN PROGRESS**
- Outsourcing the Call Center - **DONE**
- Purchasing and build-out of a new administrative facility - **DONE**
- Gathering community input on future revenue approaches and governance - **POSTPONED**
- Development of a strategic communications plan – **WORKSHOP HELD**
- Finalizing the pilot project for small diameter pipe replacement – **UNDER DESIGN**
- Improving billing and collection efforts – move beyond the current 56 percent collection rate **NO PROGRESS**
- Identifying and resolving significant water loss – continue our successful program which has resulted in a clear downward trend in water production needs from the plants and wells – **ON GOING**



## **J. PROJECTION OF WORK TO BE PERFORMED DURING THE NEXT REPORTING PERIOD**

The priority project update has other anticipated work to be performed by contract in the next reporting period. The following items are priorities for the JXN Water staff, some of which overlaps/repeats the information in the priority project updates.

### **Priority Project #1 – Phase 1 Jacobs O&M Contract (short term contract)**

Continue monitoring performance and coordinating distribution system needs with the Jacobs team operating the plants and wells.

- Byrd supported by Jordan

### **Priority Project #1 – Phase 2 Jacobs O&M Long Term Contract**

Continue negotiations with Jacobs. Still working issues around long-term liability protection language. Chemical and power costs are still not locked in. Process continues to be adjusted and new chemical feed and chlorine systems are not in place. As a result a hybrid pricing arrangement is under negotiation where chemicals and power remain reimbursable until processes are stable – contracts for chemical feed and chlorine complete and corrosion control optimized. Hybrid contract (part fixed price and part reimbursable) in place by October 1, 2023 and chemicals and power in fixed price contract no later than 10/2026.\

- Ted negotiating supported by AquaLaw

### **Priority Project #5.iv. Water loss identification and reduction**

#### **Small Pipe Leak – Find and Fix**

Continue work throughout the system to find and fix leaking water lines. This effort is focused on leaks on pipes 6 inches in diameter and smaller. The local DBE engineering firm (IMS) is managing the field effort (inspections, work order management, etc.) and repairs are being made by Gould Enterprises. GCW Paving (a Jackson based Black-owned business) is performing most of the pavement patching and site restoration services with a second small firm under contract to assist. Overall program management is performed by Stantec.

- Contractor resources
  - Gould Enterprises
  - GCW Paving
  - R&L Donaldson (Paving)
  - IMS – Project management
  - Stantec – Engineering Support/Work Order development
- JXN Resources
  - Orlando supported by Marcus

- Invoices and payments – Tiana and Ted
- Dispatch - Angie
- Work Order Management – Jordan

### **Larger Leaks and Breaks – Find and Fix**

Continue work throughout the system to find and repair leaks and breaks on larger diameter pipes (over 8 inches in diameter).

- Contractor Resources
  - UCI
  - Rangeline
  - GCW Paving
  - Stantec – Engineering Support
  - Asterra
  - Wachs as needed
- JXN Resources
  - Jordan and Byrd supported by Orlando and Marcus
  - Invoices and payments – Tiana and Ted
  - Work Order Management – Jordan

### **Priority Project #5.v.ii Service Line Inventory and Replacement Planning**

Continue working with Blue Conduit to validate existing service line inventory (currently no positive verification of any lead service lines in Jackson). Blue Conduit will use data analytics developed during the Flint Michigan crisis to identify potential locations of lead service lines. These will be field verified and the Blue Conduit algorithm adjusted with the results of field verifications. This iterative process has proven very reliable and accurate in other cities across the United States.

- Contractor Resources
  - Blue Conduit
  - UMS
  - Stantec PM – potholing coordination
- JXN Resources
  - Jordan

### **Small and Minority Business Initiative**

JXN Water’s goal is to create or expand a minimum of four locally Black owned businesses that will meet specific long-term needs of JXN Water as well as other water utilities in Central Mississippi. This work will be managed through an agreement with the Jones Group to develop a small and minority business initiative for JXN Water. The Jones Group will work with JXN Water to develop and execute an actionable plan to build capacity in Jackson for specific bodies of work in the small and minority business community.

The Jones Group’s methodology and approach aims to address the need for targeted, comprehensive support and development of contracting opportunities for small and minority businesses. Recognizing the importance of fostering diversity, equity, and inclusion in the local business ecosystem, they will implement a multi-faceted approach to empower and promote the growth of small and minority businesses.

### **Water Aesthetic Issue Investigations**

Need to establish a contract for investigation of water aesthetic complaints using a trusted local contractor. The concept is to have a contractor on-call to respond quickly to customer complaints about color, odor, taste, etc., of their drinking water. The contractor would visit with the customer, take water samples, investigate potential sources within the house, etc.,.

- Contractor Resources
  - Jacobs
  - Environmental

### **Lead and Copper Rule Program**

Need to perform a top to bottom review – gather historical data on homes with previous exceedances and determine next steps. Work to meet WQPs to eliminate customer notification requirements – less than 9 exceedances of WQPs eliminates need to notify customers.

- Contractor Resources
  - Jacobs
- JXN Water Resources
  - Ted

### **Plant Process Projects (Carry over from prior to ISO Effective Date)**

Continue to manage construction projects at the plants that were underway on the Effective Date of the ISO. These include the Membrane Building, Winterization at OB Curtis, Corrosion Control at OBC and JWF. These are SRF funded projects requiring coordination with the City of Jackson for payment processing through the SRF.

- Contractor Resources
  - Hemphill
  - Cornerstone – Limited to Engineer of Record issues, payment processing with Jacobs’ approval

- Jacobs – Construction Services – Mia
- COJ Resources
  - Robert Lee
- JXN Resources
  - Byrd – Coordination meetings
  - Ted - Invoices

**OBC Filter Project/Media/Valve/Sludge Removal/Chlorine System**

This contract to make general repairs to the conventional filters was designed and advertised prior to the effective date of the ISO. The ITPM chose to award the contract, funded through the MCWI (ARPA) program. During this quarter work will continue, focused on getting Filter 5 fully restored.

- Contractor Resources
  - Hemphill
  - Jacobs – Construction Management services (Mia)
- JXN Resources
  - Byrd – inspection and management
  - Ted – Invoice payment and MCWI reimbursement

**Priority Project #9 - Chlorine System Conversion – OBC**

Work continues on the design to replace the gaseous chlorine system at OBC with an on-site hypochlorite generation system. Two system evaluated in technical memo. JXN Water team to conduct site visits to plants to see systems in operation and discuss with owners/operators during Q3. Results from site inspections will ultimately determine which system will be selected for installation. HDR working on design for required site work (tank pedestals, foundations, piping, electrical, demo, etc.) for vendor installation of system.

Project to be added to scope of MCWI Chemical Feed project.

- Contractor Resources
  - Jacobs
  - Construction contractor ????
- JXN Resources
  - Byrd and Jordan – system selection

**Priority Project #8 - Chemical Systems and Plants and Wells**

HDR engineering is designing a complete replacement of chemical feed systems at OBC and approaching 30 percent design. Design will continue with the goal of advertising the construction contract for this work in the fall of 2023.

- Contractor Resources
  - HDR

- Jacobs – O&M input and assistance
- JXN Resources
  - Byrd and Jordan

### **Priority Project 5.a.v.2. – Implement Pressure Control**

Work continues in parallel with modeling and analysis work as informed by valve assessment work. During Q3 focus will be on replacement of valves found defective within the system – including altitude valves at the tanks.

- Contractor Resources
  - Stantec with altitude valve work
- JXN Resources
  - Byrd and Jordan

### **Small Pipe Replacement Program – Pilot**

Stantec continues design on the first mile of small diameter pipe replacement. This pilot will inform the full program for replacement of 2-inch and 4-inch diameter water mains on over 100 miles of streets. Design will include all water and sewer infrastructure within the public right-of-way and a complete overlay of the street from edge-to-edge.

- Contractor Resources
  - Stantec
  - Construction
- JXN Resources
  - Jordan and Ted

### **Priority Project 5.a.ii. - Asset Management (GIS and Work Order Management Systems)**

Stantec continues to coordinate all work around mapping, modeling, GIS, asset management and work order management systems. These systems are starting from scratch. GPS locations are being field collected by Wachs Water and others in the course of their work and fed to Stantec for incorporation in GIS system. Work will continue through Q3.

- Contactor Resources
  - Stantec
  - Cartegraph
  - Innovyze
- JXN Resources
  - Jordan

## **Billing Conversion – Meter to Cash**

Project to outsource more of billing and collection processes continues in Q3. Work is focused on moving to SaaS model (software as a service) with all Oracle processes cloud based and fully managed by BOSS. Target GO LIVE is December 11, 2023. Objectives for Q3 include clean-up of customer data, resuming severance process, and developing new rate structure.

Begin severance trials in August 2023. Select a small subset of delinquent customer accounts with Kamstrup meters installed and reading since March 31, 2023, for severance using contract resources.

Draft new rate structure plan by August 15, 2023. Present plan to City Administration no later than end of August. Present to City Council in early September.

- Contractor Resources
  - BOSS
  - UMS (Field Services)
  - Horne (Data Clean up)
  - Stantec (Rate Work)
- JXN Water Resources
  - Carla and Billing Team
  - Ted (Rate Structure)

## **Communications Strategy and Implementation**

Finalize the communications strategy with materials from the workshop held in Q2. Implement as plan is finalized.

- Contractor Resources
  - HDR – Ameerah
  - Jacobs – Tepricka
  - FCG
- JXN Water Resources
  - Ted
  - Carla

## **Priority Project 4 – Alternative Water Source Plan**

Continue to work with local vendors to provide emergency bottled water resources to customers impacted by JXN Water outages (pressure or precautionary boil water notices at large scale – 20,000 customers or more). Two local vendors responded to requests for proposals. Proposals are being evaluated and will be implemented upon EPA plan approval. Plan submittal, based on the proposal evaluations, will be in early Q3.

- JXN Water Resources
  - Ted

### **Utility Locating Service Outsourcing – 811**

Work with the Public Utilities Commission to handle all water related 811 services. Transition to a contract operation once GIS mapping is complete and accurate.

- Jordan and Ted

### **Increase Payment Convenience for JXN Water Customers**

Continue to drive customers to digital self-service (DSS) and improve experience on DSS. Q3 advertising campaign (see strategic communications plan) to make customers aware of options.

- Remote Payment Locations
  - Carla supported by Nicki and Dimitri

Cash and credit card Kiosks

- Carla

DSS Improvements

- BOSS

Advertising

- Ameerah

### **New Metering – Kamstrup AMI**

Work continues in Q3 to complete all meter installations under Sustainability Partners contract (awarded prior to ISO effective date).

- Contractor Resources
  - SP
  - UMS
  - Stantec (GPS and Acceptance)
- JXN Water Resources
  - Carla and Ted

### **Debt Retirement**

Continue work on identifying water-only debt issues that qualify for retirement with SDWA SRF funds. Need to obtain documentation from City of Jackson (CFO) for proof of payments on metering contract and other contracts funded with private debt. Continue to pursue text amendment with congressional

delegation to clarify use for both water and sewer needs. Meet with Director of MDEQ about outstanding CWSRF debt.

- Contractor Resources
  - PFM
- JXN Water Resources
  - Ted

#### **Priority Project #12 – Sediment Assessment Plan**

Move forward with Specialty Diving Services proposal for assessment of clear wells at OBC to determine quantity and method of removing sedimentation. While mobilized, conduct planning assessment for full penetration diving inspection of the two raw water mains from reservoir to OBC. Sedimentation removal and full inspection proposals will be reviewed and authorized with the goal of completing all diving work by end of September 2023.

- Contractor Resources
  - Jacobs
  - Specialty Diving Services
- JXN Water Resources
  - Jordan, Byrd, and Ted

#### **K. FEDERAL GRANT ACCOMPLISHMENTS IN RELATION TO REQUIRED OUTPUTS AND OUTCOMES**

##### **Goal 1 - Establish the Interim Third-Party Manager (ITPM) to operate, maintain, manage, and control the System in compliance with the SDWA. Comply with all requirements of the Order.**

Goal 1 was achieved during the quarter ended March 31, 2023. The ITPM established JXN Water, Inc., as the business entity required to achieve the goals and objectives of the Interim Stipulated Order and this grant.

The approved grant workplan included five tasks under Goal 1 for the Interim Third-Party Manager. While the stated goal was accomplished with establishment of the ITPM, these five tasks will continue throughout the term of the grant.

- **Implement the Project Priority List Implementation Schedule.**  
The Priority Project schedule was developed and submitted. Progress on PPL projects is provided within this report. This work will continue throughout the grant period in accordance with the schedule.
- **Advise, consult, and collaborate with the Director of Public Works.**  
Regular communications and meetings are held with the Director of Public Works and will continue throughout the grant term.

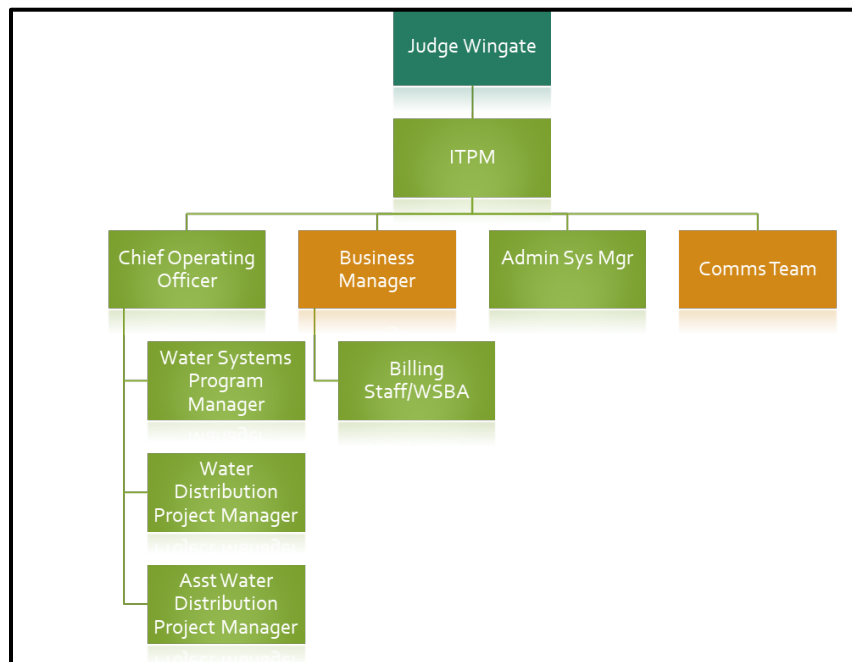


- **Perform reporting requirements; and respond to requests.**  
 All reporting requirements and requests during the quarter have been satisfied.
- **Hire, enter into contracts, alter existing contracts, seek out other funding sources, and make purchases for the benefit of the System.**  
 See details herein.
- **Develop and implement a Financial Management Plan for the System.**  
 The Financial Management Plan (FMP) was developed and submitted on January 29, 2023, as required. Implementation is on-going.

**Support Personnel:**

One additional employee was hired during the reporting period, an Assistant Water Distribution Project Manager. This position provides additional support to the on-going contractor find and fix program, coordinating isolation, customer notifications, etc. Additionally, this position allows the afterhours on-call work load to be divided among four JXN Water personnel.

**Figure 22 – ITPM and JXN Water Organization Chart**



One additional need has been identified to perform a variety of duties around grants, advocacy, communications, education and related duties. We expect to announce a hire for this position as part of the next quarterly report.

### **Contractual Support for ITPM**

With additional experience, the roles of various contractors has been evaluated and modified from the original grant workplan. At this time these are the contractors supporting the ITPM:

**Legal Services – Regulatory and General Counsel** – AquaLaw (Paul Calamita) has been engaged with the local support of Forman Watkins (Malissa Wilson). Mr. Calamita has 30 years of experience representing public drinking water and sewer utilities nationwide. Ms. Wilson is a Partner at Forman Watkins and her team is able to provide a wide range of necessary support with extensive experience with Mississippi clients.

**Accounting** – Kim Hardy, CPA with Matthews, Cutrer, and Lindsay has been retained.

**Financial Advisor** – PFM (Ricardo Callender) has been retained to provide financial advisory services. There may be additional support necessary under this item related to the debt retirement.

**Billing Support** – Southern Infrastructure Solutions is providing a former City of Jackson employee to manage the billing system and support the new billing and rate structure.

**Communications Support** – The Fahrenheit Creative Group has been retained to provide community engagement services, client consultation, account service, project management, communications strategy, crisis communications, copywriting, copy editing, graphic design, social media management, website design and development, and public relations services. JXN Water has added another contractor, Ameerah Palacios (HDR) to manage the overall communications effort.

### **Goal 2 – Establish an Operations and Maintenance Contract for the City of Jackson Water System.**

This goal was accomplished when Jacobs entered a contract with JXN Water for Operation and Maintenance of the two water treatment plants, the wells, and the storage tanks throughout the system on February 20, 2023. This contract is an open-book time and materials contract for a six-month term. During this term Jacobs will develop a better understanding of the cost to operate and maintain the plants and will use that data to inform their fixed-price bid on a ten-year contract, with a goal of awarding by October 31, 2023.

The contract requires Jacobs to meet all SDWA standards, MSDH regulations, and any other applicable laws, regulations, and standards.. The plant outcomes for this quarter are shown in Figure 23.

**Figure 23 - Water Production (into Distribution System) in million gallons per day**

<b>Plant</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>Q2 Average</b>	<b>Q1 Average</b>
OBC Conventional	12.4	13.3	14.1	<b>13.3</b>	<b>15.1</b>
OBC Membrane	22.1	22.6	22.5	<b>22.4</b>	<b>21.8</b>
JH Fewell	11.3	11.1	12.2	<b>11.5</b>	<b>13.4</b>
<b>Total</b>	<b>45.9</b>	<b>47.0</b>	<b>48.8</b>	<b>47.2</b>	<b>50.2</b>

**Power and Chemical Cost for Water Treatment**

The cost to treat water is an important metric. While Jacobs is still getting a handle on costs, with some estimating the incremental cost of water treatment (energy and chemicals) is shown in Figure 24.

**Figure 24 - Plant Operational Cost – Chemical and Electrical**

	<b>April 2023</b>	<b>May 2023</b>	<b>June 2023</b>	<b>Q2 Average</b>
Plant Flows MG (Monthly Average MG for All Plants)	1,377	1,457	1,464	1,433
Estimated Chemical and Power Cost Per MG	\$234	\$433	\$291	\$319/MG \$0.24/CCF

**O&M Contract Staffing Plan and Progress**

Jacobs has continued to aggressively recruit to fill all positions in their staffing plan. The plan calls for a long-term total of approximately 54 people with a short-term requirement for an additional 12 maintenance people to expedite corrections and deficiencies related to deferred maintenance. Eighteen full-time and one part time position have been filled with former City of Jackson employees. As of June 30, 2023, 47.5 positions of 66.5 have been filled (71 percent). Figure XX shows the current staffing plan. Those noted as BF (badge flip) were working for the City of Jackson and were directly hired by Jacobs at the contract start.

**Figure 25 – Jacobs Staffing Plan with Current Status**

<b>Water Program Manager (OFFSITE)</b>				
Josh Crowe				
<b>Water O&amp;M Project Director</b>			<b>Asst Project Manager</b>	
Tim Durham (NH - 5.23.23)			Amy McLeod (NH)	
<i>1 VACANT</i>				
<b>Business Analyst</b>	<b>Communication Director</b>	<b>Executive Admin Assistant</b>	<b>Asset Manager</b>	<b>Health &amp; Safety Manager</b>
Steve Fisher (NH)	Tepricka Morgan (NH - 6.12.23)	Annette Hill (BF: attached to PM)	<b>VACANT</b>	Robert Henderson (NH)
		<b>2 * Admin Asst</b>	<b>Planner / Scheduler</b>	
		<b>ON HOLD</b>	Kevin Pevey (NH)	
		Roberta Lindsay (BF: J)		
<p>OBC - 3 treatment facilities on site  LAB - Supports plants &amp; distribution  JHF - responsible for vertical assets</p>				
<b>Operations Manager</b>			<b>Maintenance Manager</b>	
Lenore Holmes (NH)			Artemus Skipper (NH)	
<b>OBC Operations Supervisor</b>	<b>JHF Operations Supervisor</b>	<b>Laboratory Supervisor</b>	<b>OBC Maintenance Supervisor</b>	<b>JHF Maintenance Supervisor</b>
Vincent Thomas (BF)	Keidron Porter (NH)	Monica Mitchell (NH)	Charlie Melton (NH)	James Perry (BF)
<i>14 Operators</i>	<i>12.5 Operators</i>	<i>3 Lab Staff</i>	<i>8 Maintenance Staff</i>	<i>8 Maintenance Staff</i>
<b>4 * Lead Operator</b>	<b>4 * Lead Operator</b>	<b>Lab Tech II</b>	<b>2 * Lead Mechanic</b>	<b>2 * Lead Mechanic</b>
Robert Lofton (BF)	Chris Ward (BF)	LaTanya Bennett (BF)	<b>VACANT</b>	<b>VACANT</b>
Leander Crowley (NH)	Reggie Jackson (BF)	<b>2 * Lab Tech I</b>	<b>VACANT</b>	<b>VACANT</b>
<b>VACANT</b>	<b>VACANT</b>	Stephanie Wolfe (BF)	<b>2 * Mechanic</b>	<b>2 * Mechanic</b>
<b>VACANT</b>	<b>VACANT</b>	Monica Blackman (BF)	<b>VACANT</b>	<b>VACANT</b>
<b>4 * Operator II (A-licensed)</b>	<b>2.5 * Operator II (A-licensed)</b>	<i>0 VACANT</i>	Gary Gilmer (Transition to M 6.5.23)	Demond Ayo (NH - TBD)
Rodrick Diggs (BF)	Silas Anderson - PT (BF)		<b>2 * Mechanic-In-Training</b>	<b>2 * Mechanic-In-Training</b>
Louis Latson (BF)	D'Marcus Whitlock (NH)	<b>I &amp; C Manager</b>	Rodriquez Lipsey (NH - 5.22.23)	Elvin Lindsey (BF)
John Thrasher (Start 6.26.23)	<b>VACANT</b>	<b>VACANT</b>	<b>VACANT</b>	Jarvis Brister (NH - 5.15.23)
<b>VACANT</b>		<b>3 * I &amp; C Technician</b>	<b>Electrician</b>	<b>Electrician</b>
<b>6 * Operator I / OIT</b>	<b>6 * Operator I / OIT</b>	Hekemia Lawrence (BF)	<b>VACANT</b>	<b>VACANT</b>
Joseph Turner (BF)	Katrina Gray (BF)	Roy Bennett (NH)	<b>Utility Worker</b>	<b>Utility Worker</b>
Latandra Rice (BF)	Charles Williams (BF)	<b>VACANT</b>	<b>VACANT</b>	Eddie Levy (NH - 6.14.23)
Ashley Hammitte (NH)	Dave Love (NH - 6.17.23)	<i>2 VACANT</i>		
Keona Lewis (NH)	Assante Trigg (NH)			
Kirstie Downey (NH)	Brittaney Hilliard (NH)			
Keundrus Burns (NH - 6.12.23)	Andre Straughter (NH - 6.19.23)			
= denotes an AgileOne engagement				

## Priority Project Status

The Financial Management Plan, submitted on January 29, 2023, included a spending plan that extends through the 20-year planning period. The current plan is shown in Figure 11.

**Figure 26 – Spending Plan with Source Funding**

Source	Project No.	Description	Total	2023	2024	2025	2026	2027	2028
1442b	2	Winterization	\$ 1.0	\$ 1.0					
1442b	3	Corrosion Control	\$ 1.0	\$ 1.0					
1442b	5.a.ii	Valve and Hydrant Assessment	\$ 7.4	\$ 4.9	\$ 2.5				
1442b	5.a.vii	Service Line Inventory	\$ 0.1	\$ 0.1					
1442b	5.a.iv	Distribution System Leaks - Find and Fix	\$ 22.5	\$ 10.0	\$ 7.5	\$ 5.0			
1442b	7	SCADA Improvements	\$ 5.0	\$ 1.0	\$ 4.0				
1442b	11	Plant Treatment Processes	\$ 17.0	\$ 7.0	\$ 5.0	\$ 5.0			
1442b	12	Sediment Assessment and Removal	\$ 2.0	\$ 2.0					
1442b	13	Resilient Power Plan	\$ 6.0	\$ 3.0	\$ 2.0	\$ 1.0			
1442b		EPA Administration	\$ 4.5	\$ 1.5	\$ 1.5	\$ 1.5			
1442b		ITPM Professional Budget	\$ 8.5	\$ 0.9	\$ 3.8	\$ 3.8			
			\$ 75.0						
1442b	1	O&M Contract	\$ 75.0	\$ 25.0	\$ 25.0	\$ 25.0			
		<b>TOTAL 1442b</b>	<b>\$ 150.0</b>						
ARPA	8 & 9	OBC/JHF Chemical Feed Improvements and Chlorine System	\$ 5.9	\$ 5.9					
ARPA	11.g	JHF Filters	\$ 9.8		\$ 4.0	\$ 5.8			
ARPA	11.a.g	OBC Filters/Conventional and Membrane	\$ 9.6		\$ 9.6				
ARPA	11.i.j	JHF Pumps	\$ 5.5		\$ 5.5				
ARPA	11.b.	OBC Raw Water Pumps	\$ 3.3		\$ 3.3				
Active ARPA		48 Inch Transmission Line	\$ 7.8	\$ 7.8					
Active ARPA	11.g	OBC Filter Mods	\$ 5.0	\$ 5.0					
Active ARPA (Hinds Co)	5.a.v	Distribution System Optimization - South Jackson	\$ 12.0	\$ 3.0	\$ 9.0				
		<b>TOTAL ARPA</b>	<b>\$ 58.9</b>						
BRIC		New Plant Feasibility Study and Planning	\$ 13.8		\$ 4.0	\$ 4.0	\$ 4.0	\$ 1.8	
Comm Grant	4	Alternative Water Response Plan	\$ 1.0	\$ 1.0					
Comm Grant	6	System Stabilization and Sustainability Plan	\$ 1.2	\$ 1.2					
Comm Grant		WSBA Facility Replacement	\$ 1.8	\$ 1.8					
		<b>TOTAL COMMUNITY GRANT</b>	<b>\$ 4.0</b>						
NEW SRF		Implement BRIC Study Findings (New/Rehab)	\$ 150.0						
Pay-Go		Distribution System Repairs	\$ 65.0						
Pay-Go		Plant Treatment Processes	\$ 65.0						
Pay-Go		Small Pipe Replacement	\$ 65.0						
Pay-Go		Sewer System Repairs	\$ 178.0		\$ 20.0	\$ 25.0	\$ 12.0	\$ 16.0	\$ 20.0
		<b>TOTAL PAY-GO</b>	<b>\$ 373.0</b>						
Active SRF Loan 3		Membrane Train	\$ 0.3	\$ 0.3					
Active SRF Loan 3		Membrane Building	\$ 1.5	\$ 1.5					
Active SRF Loan 3		OBC Winterization	\$ 4.1	\$ 4.1					
Active SRF Loan 3		JHF Corrosion Control	\$ 9.6	\$ 5.0	\$ 4.6				
Active SRF Loan 3		JHF Filters 24/26	\$ 1.8	\$ 1.8					
		<b>TOTAL ACTIVE SRF LOAN 3</b>	<b>\$ 17.3</b>						
SRF Omni	5.a.v	Distribution System Optimization	\$ 32.5	\$ 4.5	\$ 14.0	\$ 10.0	\$ 4.0		
SRF Omni	5.a.i	Distribution System Assessment/Modeling	\$ 6.0	\$ 4.0	\$ 2.0				
SRF Omni	5.a.vii	Corrosion Control Renewal	\$ 4.0		\$ 4.0				
SRF Omni	10	Intake Structure Repair	\$ 5.0	\$ 2.0	\$ 3.0				
SRF Omni		Implement BRIC Study Findings (New/Rehab)	\$ 60.5					\$ 0.5	\$ 30.0
SRF Omni		Small Pipe Replacement	\$ 50.0	\$ 10.0	\$ 20.0	\$ 20.0			
SRF Omni		Retire Private Debt	\$ 175.5	\$ 175.5					
SRF Omni		Retire SRF	\$ 114.5	\$ 114.5					
SRF Omni		EPA Administration/Technical Assistance	\$ 2.0	\$ 1.2	\$ 0.2	\$ 0.2	\$ 0.2	\$ 0.1	\$ 0.1
		<b>TOTAL SRF OMNIBUS</b>	<b>\$ 450.0</b>						
SRF Omni (CD)	11.g	General Filter Repairs at JHF	\$ 2.8		\$ 2.8				
USCOE 219/CR		Small Pipe Replacement	\$ 20.0	\$ 20.0					
USCOE 219/WRDA		Small Pipe Replacement	\$ 30.0		\$ 30.0				
USCOE 219/WRDA		Sewer System Work	\$ 70.0	\$ 5.0	\$ 20.0	\$ 20.0	\$ 20.0	\$ 5.0	
		<b>TOTAL CIP SPEND (All Sources) 2023-2042</b>	<b>\$ 942.0</b>	\$ 113.9	\$ 176.8	\$ 95.8	\$ 40.0	\$ 23.3	\$ 50.0
		TOTAL FEDERAL SPEND CIP*	\$ 359.6						
		*Includes US Army Corps of Engineers Section 219 funding							
		TOTAL FEDERAL SPEND O&M	\$ 75.0						
		TOTAL FEDERAL SPEND DEBT RETIREMENT	\$ 290.0						
		TOTAL ARPA SPEND	\$ 58.9						
		TOTAL JXN WATER PAY-GO	\$ 373.0						
		TOTAL NEW SRF (2030-2035)	\$ 150.0						
		<b>GRAND TOTAL INVESTMENT 2023-2042</b>	<b>\$ 1,306.5</b>						

Each of the 13 Priority Projects included in the ISO have funding sources identified in the Spending Plan. The Spending Plan has these 13 projects accomplished by the end of 2025. While that is the plan, many of the priority projects are still at a conceptual level. Engineering has not been initiated that may increase estimates or identify long-lead time materials that could delay one or more of the Priority Projects. The quarterly reports will provide regular updates for each Priority Project.

The ISO also required an Implementation Schedule for the Priority Projects. Anticipated deviations from the dates in the Implementation Schedule will be noted in each update within the quarterly report and formally requested in accordance with the ISO after submittal of the report. The updated Implementation Schedule is below. Requests to modify the PPL deadlines will follow this report in accordance with the ISO.

#### **L. Priority Project List – Implementation Schedule**

##### **1. O&M Contract**

- a. Establish, support, and maintain a contract(s) for operation and maintenance of the System. The contract must establish clear level of service goals including minimum appropriate staffing in accordance with Miss. Admin. Code § 15-20-72.2.2.1(5) and all applicable laws and regulations.
  - Phase 1 – Contract operations for both plants and wells based on open-book cost plus model. This phase allows for continued negotiations to long-term contract while contractor is learning more about costs to operate to start by **March 2023**
  - Phase 2 – Contract operations of complete system – including distribution system with an initial 5-year term with options to renew. ~~July 2023~~ **New Date 10/31/2023 in Q1 report.**

##### **2. Winterization of system** – This project completes work in progress as of the effective date. This work was contracted by the City of Jackson. JXN Water is managing these through Jacobs Consulting. Once complete early Q3, Jacobs will review the plants for any gaps and provide a detailed assessment of any needed further measures.

- a. Develop and implement to the extent funding and schedule permit a comprehensive plan to properly winterize both O.B. Curtis and J.H. Fewell.
  - Short term immediate measures – **March 2023**
  - Plan for longer-term measures – **July 2023**
  - Implement plan for winter 2023/2024 – **December 2023**
- b. Complete membrane winterization project.
  - **August 2023**

##### **3. Corrosion control** – This project was originally intended to complete the projects that were

under construction as of the ISO effective date. A full review has resulted in JXN Water requesting a change from the approved OCCT from the MSDH. Approval is anticipated based on discussions with MSDH and implementation will be complete by the end of Q4.

- a. Address any outstanding issues impeding full implementation of optimized corrosion control treatment (“OCCT”) at J.H. Fewell and O.B. Curtis, and complete implementation of such OCCT as required by MSDH and consistent with the MSDH-approved OCCT plans to meet State-approved water quality parameters.

- ~~September 2023~~ Extensive lead times on equipment has slowed completion down at both plants. JH Fewell is further along and anticipated to be complete in early Q4 with OB Curtis a few months behind. ITPM will be requesting a revision to this schedule to extend to **December 31, 2023**.

4. **Alternative water source plan**

- a. Implement an Alternative Water Source Plan (“AWSP”) including entering into agreements for the immediate provision of alternative water - at least one gallon per person per day. A revised plan scope will be submitted to EPA in August 2023 to reflect local contractor/vendor capabilities.

- **October 2023**

5. **Distribution system study, analysis, and implementation**

- a. Develop a plan for EPA review and approval for distribution system study and analysis to include at a minimum: **Plan submittal July 2023 (within 60 days – no schedule adjustment required)**

- i. A GIS-based dynamic hydraulic model
- ii. Valve and hydrant location and assessment, including valve size
  - iii. An asset management system
  - iv. Water loss identification and reduction
- v. System operation optimization and configuration standards
  - 1. Pressure study – HGL analysis
  - 2. Implement pressure control/pressure zones/booster pumping as recommended and as funding and schedule permit.
    - vi. Corrosion control
  - vii. Service line inventory and replacement planning
    - 1. Prioritize replacement of any lead lines found, with schedule approved by EPA and MSDH.
    - 2. Update lead service line replacement plan in compliance with Lead and Copper Rule Revisions.

- b. Implement plan as funding and schedule permit. **Implementation of many activities has commenced with all elements to commence no later than plan approval – will continue into 2024 and beyond.**

6. **System stabilization and sustainability plan - ~~March 2023~~ New date 10/31/2023 in Q1 report.**
  - a. Develop a sustainable plan to stabilize and invest in the water system to ensure safe and reliable drinking water for all of Jackson, all the time.
  - b. Key areas to be addressed include sustainable revenue models, appropriate levels of renewal and replacement, asset management plan, service levels, water demand modeling, and other related factors.
  
7. **SCADA system improvements** – sensors, actuators, sensors, etc. This project is to evaluate and replace the SCADA system at OB Curtis and JH Fewell.
  - September 2023 – unable to estimate completion until upgrade evaluation is completed in September 2023 (30 percent design) at which time construction schedule will be developed and submitted.
  
8. **Chemical systems at plants and wells**
  - a. Assess and repair, as necessary, all chemical feed pumps and associated equipment at all facilities, including but not limited to; controls, sensors, weight indicators, and feed lines, to return all chemical feeds to fully functional status, ensure operational redundancy, and establish flow paced automated dosing for all chemical feed systems.
    - ~~Complete Oct 2023~~ This project grew to a complete replacement of all chemical feed systems at OB Curtis. PP 9 has been included in the design currently at 30 percent. Schedule for contract completion extends to end of 2024. Detailed schedule will be provided with request to adjust.
  
9. **Chlorine system improvements at O.B. Curtis**
  - a. Make replacements or immediate interim repairs as necessary for continuous safe operation.
    - **February 2023** – Complete to operate in accordance with Jacobs’ safety protocols.
  - b. Develop and implement plan to eliminate use of gaseous chlorine at O.B. Curtis.
    - **October 2023** – Plan has been developed and design started to be accomplished in coordination with PP 8. Design is at 30 percent.
  
10. **Intake Structure Repairs**



- a. Assess and repair, as necessary, the intake structures at J.H. Fewell and O.B. Curtis, including, but not limited to, sensors (including related remote SCADA capabilities), chemical feed systems, valves, electrical components, screens, physical structure, and any appurtenances, to return the intake structures and related components to fully operational status.
    - **Complete December 2023** – JHF scope may be much more complex and if so – a specific schedule will be developed once assessment is complete in Summer 2023.
11. Treatment facilities (J.H. Fewell and O.B. Curtis as applicable) unit processes and pumps – evaluate performance and restore redundancy – **Start Dec 2022 with assessment by JACOBS. Work accomplished throughout year in coordination with JACOBS as contract operator. No completion date can be established until extent of repair/remediation/replacement work can be determined.**
- a. Membrane system
  - b. Raw water pumping and screening
  - c. Oxidation basins
  - d. Rapid mix
  - e. Flocculation and sedimentation
  - f. Sludge removal
  - g. Filters
  - h. UV
  - i. Transfer pumping
  - j. High service pumping
12. **Sludge assessment in all finished water storage facilities**
- a. Assess sludge levels and remove as required. Develop operating procedures to minimize future sludge accumulation in all finished water storage facilities.
 

**Assessment June 2023** – Divers are scheduled for August 2023 for assessment. ?  
So which is it, June or August  
**Removal, if required, December 2023**
13. **Resilient power plan**
- a. Assess power vulnerability throughout the system and develop and implement a plan to address issues identified in the assessment, as funding and schedule permit.
 

**Assessment September 2023**  
**Begin implementation December 2023 – completion cannot be estimated until scope of work is identified by assessment.**

**M. Status Updates for All Projects**

Status Change Quarter Ending June 30, 2023	Status Quarter Ending June 30, 2023	Delays	Projection of Work Ending Quarter Ending September 30, 2023
<b><i>Entire System Stabilization</i></b>			
Continued stabilization actions	<p>Plants consistently produce needed water to support the system.</p> <p>Distribution system leak detection has improved by installation of pressure monitors.</p> <p>Water tank water levels holding more consistently.</p> <p>Opened valves on smaller distribution lines (less than 16" diameter).</p> <p>Completed repair on 48" line that had major water leak. Repair approach included bypass to mitigate leak to prevent water outage to citizens.</p> <p>Identified major issues on 20" transmission main running west across city along Fortification Street. Issues include multiple breaks with one under railroad. Preparing for repair which will include bore under railroad.</p> <p>Identified major issues on 30" transmission main running along Woodrow Wilson south to Fortification Street. Issues include multiple breaks in creek and multiple broken/closed valves. Repair is designed and is ready for award.</p> <p>Procurement underway of additional 20" and larger valves to keep in stock to expedite repairs.</p> <p>Started altitude valve assessment on tanks and initiated emergency design for repair on the valve at Chastain Tank.</p> <p>Evaluated water tank storage response to plant flows.</p> <p>Implementation of call center is leading to stabilization of system as issues are more quickly identified.</p>	None	<p>Satellite sensor assessment of water loss. Assessment will be followed by acoustic detection.</p> <p>Continue evaluation of distribution system and implement corrective actions to further stabilize the system.</p> <p>Coordinate with plants to set system pressure requirements and goals.</p> <p>Continue evaluation of high-pressure areas (consistent water line breaks) for valve closures.</p>
<b><i>South Jackson System Stabilization</i></b>			
Continued stabilization actions	<p>Continuing to address pressure issues at CMMC hospital.</p> <p>Maintained operational water levels at Elaine and Suncrest tanks.</p> <p>Reviewed preliminary hydraulic model results for establishing pressure zones.</p> <p>Performed pressure checks along known transmission water lines to verify elevation/grade levels historically.</p>	None	Continue evaluation of distribution system and implement corrective actions to

**M. Status Updates for All Projects**

<b>Status Change Quarter Ending June 30, 2023</b>	<b>Status Quarter Ending June 30, 2023</b>	<b>Delays</b>	<b>Projection of Work Ending Quarter Ending September 30, 2023</b>
	<p>Tested water quality from hydrants on known transmission lines to verify which treatment plant water is providing water to the area and the quality of that water.</p> <p>Identified several potential incomplete tie-ins for further investigation and repair if required.</p>		<p>further stabilize the system.</p> <p>Pressure checks along known transmission water lines to verify elevation/grade levels historically.</p> <p>Test water quality from hydrants on known transmission lines to verify which treatment plant is providing water to the area and the quality of that water.</p> <p>Search known water line maps to find valves that could be causing pressure build-up or stagnant water based on field findings.</p>

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
1	O&M Contract	O&M contractor engaged and progressing work	Operations Consulting Support and Safety Audit	Jacobs	<p><b>General</b></p> <ul style="list-style-type: none"> <li>- Continued hiring according to staffing plan: 47.5 filled positions of 66.5 total planned positions; 18.5 positions currently filled with converted City of Jackson employees.</li> <li>- Hired 2 Operators- In Training and 1 Class A Operator.</li> <li>- Implemented preventative maintenance schedule and routines at both OB Curtis and JH Fewell.</li> <li>- Completed security assessment of water treatment plants, wells, and tank sites.</li> <li>- Initiated LT2/Crypto sampling.</li> </ul> <p><b>OB Curtis Significant Repairs and Maintenance</b></p> <ul style="list-style-type: none"> <li>- Sediment Basin drain line repaired allowing more efficient and improved basin cleaning.</li> <li>- Pulled Raw Water Pump #2 to replace broken shaft and repair motor.</li> <li>- Returned Raw Water Pump #1 to service.</li> <li>- Temporary Permanganate system installed at Barnett Reservoir.</li> </ul>	<p>Maddox Road Well has been vandalized twice in the last quarter (June and July) resulting in temporary loss of service and necessitating repairs.</p> <p>Encountering lengthy lead times for some process equipment including valves and actuators.</p>	<p>Complete installation of handrails at JH Fewell to improve fall protection for operations staff.</p> <p>Return JH Fewell Filters 24 and 26 to service providing an additional 4MGD filter capacity and operational redundancy.</p> <p>Initiate repairs needed to return the Residual Handling Facility to service at OB Curtis.</p>
		Operations Consulting Support and Safety Audit (Amendment 1)	Jacobs				
		O&M Secondment	Jacobs				
		O&M Secondment (Amendment 1)	Jacobs				
		O&M Secondment (Amendment 2)	Jacobs				
		O&M Phase 2	Jacobs				
		O&M Materials Procurement	Jacobs				
		O&M Condition Assessment	Jacobs				
		O&M Evaluation	Jacobs				

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
			O&M Staff Augmentation (Amendment 1 and 2)	Jacobs	<ul style="list-style-type: none"> <li>- Repaired multiple couplings on membrane permeate pumps that were approaching failure/end of lifecycle.</li> <li>- Installed handrails on filters to provide fall protection for operations staff.</li> <li>- Initiated engineering review of VFD installation on High Service Pumps.</li> <li>- Pulled membrane Blower B for repair.</li> <li>- Installed chlorine gas monitors.</li> </ul> <p><b>JH Fewell Significant Repairs and Maintenance</b></p> <ul style="list-style-type: none"> <li>- Pulled Raw Water Pump #2 and sent motor for repair.</li> <li>- Completed full sediment basin cleaning.</li> </ul> <p><b>JH Fewell Significant Repairs and Maintenance</b></p> <ul style="list-style-type: none"> <li>- Returned TV Road Well to service.</li> </ul>		

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
2	Winterization	Contractor engaged and progressing work	OBC Winterization Project – Construction Contract	Hemphill	Delivered soda ash bulk storage tank. Membrane Building: started up soda ash pumps, requested substantial completion and final time extension, progressed punch list items.	Delays related to the CO2 Tank pad location and decision on soda ash and dehumidification on scope of work have been accrued and continue	Start CO2 foundation pad change order work. Deliver CO2 tanks. Install soda ash bulk storage tanks. Continue electrical and controls. Closeout Membrane Building Project.

3	Corrosion Control	Contractor engaged and progressing work	<p>JHF CO<sub>2</sub> Chemical Feed Equipment Project Construction Contract</p> <p>JHF CO<sub>2</sub> Chemical Feed Equipment Project – Change Order #1 – Water Line Repair and Isolation</p> <p>JHF CO<sub>2</sub> Chemical Feed Equipment Project – Change Order #2 - Sump Pumps at Lime Silo Containment Area</p> <p>JHF CO<sub>2</sub> Chemical Feed Equipment Project – Change Order #3 - Transformer Deletion and CO2 Tank Orientation Change</p>	Hemphill	<p>Completed sludge removal at existing basins where CO2 tanks will be placed.</p> <p>Roughed in conduit and feed lines and finished pouring new concrete slabs and equipment pads for CO2 tanks over abandoned basins.</p> <p>Completed installing liquid lime feed system equipment, excluding power and water feeds.</p> <p>Installed new water hydrant and water tap between two new insert-a-valves for liquid lime system feed.</p> <p>Processed change order to delete transformer and use the existing substation panel to reduce long procurement time for transformer equipment.</p>	Equipment procurement delays have added 27 days per Change Orders 1, 2, and 3.	<p>Deliver and install CO2 tanks.</p> <p>Complete power and electrical to CO2 tanks.</p> <p>Complete installation of power and water feeds to liquid lime system.</p> <p>Complete CO2 and liquid lime chemical feed lines and diffusers.</p> <p>Receive cost proposal for site pavement and drainage improvements.</p>
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PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
3	Construction Management Services for OBC Winterization and JHF Corrosion Control	Consultant engaged and progressing work	Construction Management Services for OBC Winterization and JHF Corrosion Control (Task Order #7)  Amendment #1 to Construction Management Services (Task Order#7)  General Construction Management Services (Task Order #3)	Jacobs	<p>Continued improving, updating, and using construction project management system (Trimble ProjectSight).</p> <p>Made improvements to the payment process to streamline processing including the use of electronic signatures and electronics transmittals to each party.</p> <p>Continued construction site visits for observation and inspection.</p> <p>Continued contract administration including payment application review, submittal reviews, answering RFI's, coordination with Plant Operations, writing requests for change proposals, developing work change directives and change orders.</p> <p>Attended and then conducted monthly construction meetings for each project.</p> <p>Supported field engineering for troubleshooting construction issues and providing input to the contractor and JXN Water; continued coordinating soda ash silo decisions with corrosion control study recommendations.</p>	Construction on both the JHF Corrosion Control and OBC Winterization projects have experienced delays from original contract dates due to equipment procurement delays.	<p>Negotiate and execute as directed by JXN Water modifications required to construction contracts to address findings from corrosion control and winterization design reviews with contractor.</p> <p>Provide ongoing construction management services throughout the quarter. Advance substantial completion on JHF Corrosion Control and OBC Winterization projects during fourth quarter based on current construction schedules.</p>



PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
5a	Distribution Plan for EPA Review and Approval	Initiated development of plan including the initial work already accomplished	N/A – Plan included in already existing Task Orders for Distribution Work	Stantec/J acobs	Initiated plan.  Coordination with JXN Water’s lead water distribution engineering consultant regarding the plan.  Coordination with the Corrosion Control Study Team regarding plan development.	None	Submit plan for review and approval.

5.a. i	Distribution System Assessment and Modeling	Consultant engaged and progressing work  Addendum 1 under development for field testing, and additional modeling services.	Development of data analysis, hydraulic modeling, and alternative analysis.	Stantec	<p>Data Collection</p> <p>Continued gathering data and concluded the data gap analysis of information required for hydraulic model development.</p> <p>Stantec, with assistance from JXN Water and LEC installed 25 pressure data loggers at each storage tank and at other locations throughout the distribution system. Stantec has analyzed the data and identified data gaps and technical issues with the LEC/IQ2 platform and are working with the manufacturer to resolve the issues. Stantec developed a script to compile data more efficiently every week. This work was not in the original project scope and an addendum is being drafted.</p> <p>Stantec began planning for field testing to calibrate the hydraulic model. Stantec began developing a field-testing plan and selecting testing locations for hydrant testing and transient monitors.</p> <p>Hydraulic Modeling</p> <p>Stantec completed the Pressure Zone Boundary Analysis and presented it to JXN Water on June 21, 2023. Stantec provided insight into problem areas based on hydraulic head conditions at the tanks and standard head loss rates. Stantec identified a conceptual pressure zone boundary to alleviate the pressure zone issues in the</p>	<p>The InfoWater Pro (IWP) developed by Innovyze was hindered by many incorrect attributes and discrepancies in the pipe network compared to the new GIS database. This resulted in additional review time. Therefore, the IWP Model by Innovyze was not as advanced as planned during scope development and Stantec developed a new transmission model, in lieu of an all-pipe model. Modelers worked with the GIS team and JXN Water to digitize the transmission</p>	<p>Continue collecting and documenting data received during data gap analysis. The team will review and analyze data for hydraulic model development as data becomes available.</p> <p>Continue building the transmission model pipe network and import model demand.</p> <p>Perform field testing for model calibration including hydrant tests and transient monitoring.</p> <p>Calibrate the hydraulic model.</p> <p>Draft a Model Calibration and Pressure Boundary Analysis Report.</p> <p>Further evaluate the conceptual pressure zone and pump stations and draft conceptual project alternatives for the south side of Jackson.</p>
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					<p>southern portion of the service area.</p> <p>The IWP model developed by Innovyze was deemed not trustworthy as there were many incorrect attributes and discrepancies in the transmission pipeline network compared to the recently digitized GIS database. Stantec has decided to pursue developing a transmission pipe only hydraulic model and a task order addendum is being drafted for the additional effort.</p> <p>Completed transmission main asset digitization with assistance from the GIS Team. The total pipelines digitized can be found in 5.a.iii.</p> <p>The transmission mains were imported into a new InfoWater Pro (IWP) Model. Stantec is reviewing and updating the pipeline network in the new model to confirm hydraulic connectivity.</p> <p>Stantec began importing the tanks and pumps into the new hydraulic model.</p> <p>Stantec analyzed land use, Census data and the consumption data from Kamstrup and began developing the model demand.</p> <p>Stantec is drafting an addendum to add the groundwater system to the hydraulic model which was not included in the original task proposal</p>	<p>pipe network from scratch and import it into a new model. An addendum is being drafted for building a transmission model.</p> <p>There have been several data gaps and technical issues with the LEC/IQ2 Pressure Data Loggers. Stantec developed a script to compile data and has been working with the manufacturer to resolve data issues.</p>	
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PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
5.a. ii	Valve and Hydrant Assessment	Consultant engaged and progressing work	Leak Detection and Mapping Services	Xylem (Wachs Water)	Continued assessing valve condition in areas of concern. Completed the following repairs and field activities: <ul style="list-style-type: none"> <li>- 994 valves fully exercised</li> <li>- 4 op nut repairs completed</li> <li>- 57 valves uncovered</li> <li>- 2 frozen valves repaired</li> <li>- 124 valve positions changed</li> <li>-</li> </ul>	None.	Continue transmission main assessments and repair activities during the next quarter.  Begin assessing the entire distribution system valves and hydrants and perform needed hydrant flow tests.
5.a. ii	Valve and Hydrant Assessment	Consultant engaged and progressing work	Management of Leak Detection Services, GIS Mapping, and Field Support Services	Stantec	Completed the assessment of transmission mains.  No major valve repairs completed, frozen valves repaired, and minor repairs completed.  Assessed the valves, logged working issues.  Started repair plan.  Spreadsheet of issues.  Emergency responses – pressure issues troubleshoot valve.	None	Assessment in the distribution areas.  GIS mapping for the distribution is ongoing.  Hydrant testing program plan to be developed and executed.

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
5.a. iii	GIS Mapping	Addendum 2 under development for additional GIS scope items.	Technical management of GIS system map to support hydraulic modeling, the hydrant, valve and flushing / flow testing program, and operations and maintenance activities.	Stantec	<p>6000+ sheets digitized comprising both transmission and distribution mains. Priority Area 2 Complete</p> <p>GIS mapping created for use with <b>Distribution System Assessment and Modeling, Valve and Hydrant Assessment and Information &amp; Asset Management Support</b> tasks.</p> <p>Interactive GIS interface developed and populated.</p> <p>Have established regular imports of system valve locations and status from Xylem/Wachs field data collection; using updated valve locations to move and better connect water distribution mains.</p>	<p>Quality and consistency of maps to be digitized.</p> <p>Increased number of data sources and mapping sheets to review.</p> <p>Significant number of unmapped / unknown valves; significant time to reconcile with existing data from drawings.</p>	<p>Addendum 2 to be compiled and approval and NTP requested.</p> <p>Further digitization and mapping of priority areas.</p> <p>Procedure for capturing completed work beyond maintenance to be developed.</p> <p>Continuing work with software vendor to enable real time sharing of GIS data vs. the current regular copies of GIS data out to JXN Water, and other consultants.</p>

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
5.a. iii	Information & Asset Management	No change.	Development of Asset Management system to support operations activities.	Stantec	<p>Drafted initial set of Level of Service (LOS) standards and metrics to be reviewed and validated.</p> <p>Document workflows for capturing work and asset data for ongoing repairs and replacements in the field.</p> <p>Prototype design for work management application integrating ArcGIS applications including Survey 123 and Workforce.</p> <p>Began initial coordination with Cartegraph to assist with the CMMS implementation.</p>	None	<p>Support the implementation of Cartegraph Phase 1.</p> <p>Develop a plan for rollout of JXN Enterprise GIS.</p> <p>Prepare plan for integration of hydraulic model and utility network.</p>
5.a. iv	Distribution System Leaks – Find and Fix	Consultant engaged and progressing work	Management of Leak Detection and Repair Program	IMS	<p>Evaluated backlog of known leaks (focus on pipe diameters 6 inches and smaller).</p> <p>Performing Drive-by Windshield Leak Detection Survey of all roads in the JXN Water service area.</p> <p>Performed real time leak detection identification and issued Work Orders to Contractors.</p> <p>Provided Weekly Summary Update of program progress.</p>	None	<p>Continue to progress project and issue repair work orders.</p> <p>Continue PM Field Related Activities.</p> <p>Continued Drive-by Windshield Leak Detection Survey.</p>

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
5.a. iv	Distribution System Leaks – Find and Fix	Consultant engaged and progressing work  Addendum 1 under development for additional projects.	Management of Identification and Repair of Major Water System Leaks	Stantec	<b>48-inch main break on former Colonial Country Club</b> <ul style="list-style-type: none"> <li>- Excavated initial leak location and identified break (more than 30 feet deep) requiring additional equipment.</li> <li>- Identified a circumference break on the crown of the 48-inch water line approximately 2 feet west of the 45-degree fitting at the east side at the bottom of the creek crossing.</li> <li>- The water line was repaired and pressurized to determine if additional leaks were present.</li> <li>- After determining that no additional leaks were present, the excavated area was backfilled. All line stops were removed, and the site was restored to the original grade.</li> <li>- A site walkthrough was performed with Stantec, Rangeline Pipeline Services, and the owner’s representative. The owner’s representative approved the site restoration and Stantec confirmed directly with the owner.</li> <li>- All site restoration and clean up has been completed, fencing and gate replaced, and the project is closed out..</li> </ul>	<b>48-inch main break on former Colonial Country Club</b> <ul style="list-style-type: none"> <li>- Multiple rain events and depth of main break delayed completion of the project.</li> <li>- Depth of break on above required additional equipment to be sourced and brought in.</li> </ul>	<b>48-inch main break on former Colonial Country Club</b> <ul style="list-style-type: none"> <li>- Project complete.</li> </ul>

PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
					<b>48-inch ARV leak on East Beasley Road</b> <ul style="list-style-type: none"> <li>- Stantec recommends that a new ARV be installed along with the new valve. This was not originally requested at the time of the repair.</li> </ul>	-	<ul style="list-style-type: none"> <li>- 48-inch ARV to be installed.</li> <li>- Anticipate completion in August 2023.</li> </ul>
					<b>30-inch main break crossing Town Creek at Fortification and Prentiss Streets</b> <ul style="list-style-type: none"> <li>- Performed site survey and geotechnical investigation.</li> <li>- Started design of trenchless crossing plans and specifications.</li> </ul>	- None	<ul style="list-style-type: none"> <li>- Design and specifications will be completed, and the project will be competitively bid and under construction.</li> <li>- Anticipate repairs to begin Aug/Sep 2023.</li> </ul>
					<b>20-inch break on railroad easement south of Fortification Street –</b> <ul style="list-style-type: none"> <li>- Performed site survey and geotechnical investigation.</li> <li>- Started design of trenchless crossing plans and specifications.</li> <li>- Stantec coordinated access and permits with railroad.</li> </ul>	<ul style="list-style-type: none"> <li>- <b>20-inch break on railroad easement south of Fortification Street</b></li> <li>- Railroad easement access permissions and permits need to be obtained.</li> </ul>	<ul style="list-style-type: none"> <li>- <b>20-inch break on railroad easement south of Fortification Street</b></li> <li>- Design and specifications will be completed, and the project will be competitively bid and under construction.</li> <li>- Anticipate repairs to begin Aug/Sep 2023.</li> </ul>



PPL	Description	Status Change Quarter Ending June 30, 2023	Task Order(s) Quarter Ending June 30, 2023		Summary of Work Quarter Ending June 30, 2023	Summary of Delays Encountered	Projection of Work Quarter Ending September 30, 2023
					<p><b>Pipe and Valve Replacement @ Intersection of Prentiss and Fortification</b></p> <ul style="list-style-type: none"> <li>- Performed site reconnaissance and identified repair options.</li> <li>- JXN Water sourced UCI to perform pipe and valve replacement.</li> <li>- Stantec prepared scope and figure for pipe and valve replacement.</li> </ul>	<ul style="list-style-type: none"> <li>- Condition of pipe and casing under railroad to be confirmed during site investigation. It is assumed to be re-used but could require replacement which could delay the project due to railroad permitting requirements. Anticipate work to begin July 2023.</li> </ul>	<ul style="list-style-type: none"> <li>- Anticipate work to begin July 2023.</li> </ul>
					<p><b>Northside Dr 24-inch Valve Replacement and Chastain Dr. Valve Replacements</b></p> <ul style="list-style-type: none"> <li>- Performed site reconnaissance and identified repair options.</li> <li>- Stantec prepared scope, cost proposal, and drawing for pipe and valve replacement.</li> </ul>	<ul style="list-style-type: none"> <li>- None</li> </ul>	<ul style="list-style-type: none"> <li>- Select contractors to submit proposal to JXN Water to perform the project.</li> <li>- Anticipate repairs to begin August 2023.</li> </ul>

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				<b>20-inch Pipe Replacement Emergency (Fortification – Palmyra to Prentiss)</b> <ul style="list-style-type: none"> <li>- Performed site reconnaissance and identified repair options.</li> <li>- Stantec is preparing scope, cost proposal, and figure for pipe replacement.</li> </ul>	<ul style="list-style-type: none"> <li>- None</li> </ul>	<ul style="list-style-type: none"> <li>- Project is an emergency and will be procured through select contractor proposals.</li> <li>- JXN Water to select a contractor to undertake the work.</li> <li>- Anticipate replacement to begin August 2023</li> </ul>
				<b>20-inch Pipe Replacement Design (Fortification – Prentiss to Clinton Dr)</b> <ul style="list-style-type: none"> <li>- Performed site reconnaissance and identified repair options.</li> <li>- Stantec is preparing design scope and fee.</li> </ul>	<ul style="list-style-type: none"> <li>- Railroad easement access permissions and permits need to be obtained.</li> </ul>	<ul style="list-style-type: none"> <li>- Develop design and specifications for bidding.</li> <li>- Anticipate repairs to begin October/November 2023.</li> </ul>
				<b>20-inch Pipe Design (Gallatin &amp; McDowell,)</b> <ul style="list-style-type: none"> <li>- Performed site reconnaissance and identified repair options.</li> <li>- Stantec is preparing design scope and fee</li> </ul>	<ul style="list-style-type: none"> <li>- Railroad easement access permissions and permits need to be obtained.</li> </ul>	<ul style="list-style-type: none"> <li>- Develop design and specifications for bidding.</li> <li>- Anticipate repairs to begin October/November 2023.</li> </ul>

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5.a. iv	Distribution System Small Main Replacement	Consultant engaged and progressing work	Development of Engineering Standard Details and Specifications for 2-Inch Water Main Replacement Pilot Project	Stantec	<p>Sewer lines adjacent to waterline replacements have been inspected using CCTV and manhole inspections have been completed.</p> <p>Plans are being developed with the understanding the sewer lines and manholes will be replaced per direction of JXN Water.</p> <p>Specifications and contract documents are at 90%.</p>	None	Design and specifications will be completed, and the project will be competitively bid and under construction.
5.a. v	Information & Asset Management Support	No change.	Development of Asset Management system to support operations activities.	Stantec	<p>Drafted initial set of Level of Service (LOS) standards and metrics to be reviewed and validated.</p> <p>Document workflows for capturing work and asset data for ongoing repairs and replacements in the field.</p> <p>Call Center data entry sheet created, tested and deployed.</p> <p>Designed, built and tested temporary work management application integrating ArcGIS applications including Survey 123 and Field Maps. Design approved by client.</p> <p>Began initial coordination with Cartegraph to assist with the CMMS implementation.</p>	None.	<p>Train field crews and deploy the temporary work management application.</p> <p>Cleanse legacy call center data and integrate it with the new work tracking system.</p> <p>Support the implementation of Cartegraph Phase 1.</p> <p>Develop a plan for rollout of JXN Enterprise GIS.</p> <p>Prepare plan for integration of hydraulic model and utility network.</p> <p>Build dataset and interactive tools for monitoring progress of emergency repair projects</p> <p>Start of planning of migrating GIS systems currently hosted by Stantec to systems operated by JXN Water.</p>

5.a. vi	Corrosion Control Renewal	Task order issued to consultant to perform revised desktop corrosion control study.	Review of Designs and Related Studies (Task Order #7)  Corrosion Control Desktop Study (Task Order #5)	Jacobs	<p>Completed initial review of prior corrosion-related studies and ongoing corrosion control designs and presented initial findings to JXN Water in mid-April 2023.</p> <p>Performed subsequent additional investigations into soda ash system and other similar installations in the southeast with similar operational conditions.</p> <p>Conducted meetings with similar soda ash installations to obtain operational feedback.</p> <p>Assessed feasible alternatives to soda ash to maintain approved WQPs while desktop study is being performed.</p> <p>Presented second round of corrosion control findings to JXN Water.</p> <p>Coordinated with MSDH on desired path forward for corrosion control; preparing requested follow-on letter to present discussed path forward to MSDH for review.</p> <p>Gathered historical data and information to support desk top study.</p> <p>Coordinated with ongoing process assessment for WTPs and ongoing construction projects at both WTPs pertaining to corrosion control.</p> <p>Prepared for and conducted desktop corrosion control study kick-off meeting with Jacobs, Stantec, and JXN Water.</p>	Lack of available historical data and required efforts for data collection continue to add time and complexity to this task.	<p>Continue performing desktop corrosion control study.</p> <p>Coordinate with MSDH on recommended path forward for interim corrosion control and perform design and construction work to advance implementation of approved interim solution.</p>
6	System Stabilization/Sustainability Plan – Water	Consultant engaged and	None, initial planning work progressing	Jacobs	Kicked off meeting conducted with the project team.	None	Develop and deliver the Water Treatment Plants, Wells, and

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	Treatment Plants, Wells, and Tanks Capital Improvement Plan	progressing work	under existing task order.		Compiled existing water treatment plant condition data.  Initiated analysis of condition data to support project prioritization.		Tanks Capital Improvement Plant to JXN Water.
7	SCADA Improvements	Consultant engaged and progressing work	None, initial planning work progressing under other existing task order.	Jacobs	Finalized conceptual plan for updating JXN Water SCADA, Operational Technology, and Cybersecurity systems.  Reviewed conceptual plan including recommended path forward.  Initiated scoping effort for preparing Schematic Design Report (30% Design effort).	None	Contract with consultant for development of Schematic Design Report.  Progress 30% Design.

8, 9	OBC and JHF Chemical Feed Improvements (including Chlorine System Replacement at OBC)	Consultant progressing work	<p>Replacement of OB Curtis Chemical Feed Building System – Basis of Design</p> <p>Replacement of OB Curtis Chemical Feed Building System Change Order #2 - Survey and subsurface utility evaluation (SUE) will be required. The additional effort includes the following items: complete topographic, planimetric and Level C SUE of the entire OB Curtis WTP site.</p> <p>Replacement of OB Curtis Chemical Feed Building System Change Order #3 - Incorporation of additional</p>	HDR HDR	<p>Provided initial sizing calculations for the on-site sodium hypochlorite generation system to JXN Water and Jacobs to confirm sizing.</p> <p>Submitted Technical Memo #1 and #2 to JXN Water and Jacobs for review.</p> <p>Attended multiple equipment/vendor meetings with De Nora and USGI to assist them with design criteria and proposal development related to on-site sodium hypochlorite generation.</p> <p>Completed a BIM 3D model of the Chemical Feed Building.</p> <p>Completed LIDAR scan of Raw Water Intake Structure and developed preliminary BIM 3D structural model of structure.</p> <p>Completed the following for QAQC review:</p> <ul style="list-style-type: none"> <li>- Basis of Design memorandum</li> <li>- P&amp;IDs for the chemical feed systems.</li> <li>- Detailed structural, mechanical, and HVAC demolition drawings</li> <li>- Detailed structural, mechanical, HVAC, and electrical drawings for QAQC review</li> </ul> <p>Completed topographic and utility survey of the entire plant.</p> <p>Coordinated with Pearl River Valley Water Supply District (PRVWSD) Shoreline Development to obtain record drawings of the existing intake and requirements for a new building at the intake structure.</p> <p>Completed an electrical site visit to review plant power distribution and impacts to</p>	Additional scope added to include the replacement of the chlorine and ammonia gas systems	<p>Attend on-site hypochlorite manufacturer installations to assist JXN Water in selecting an equipment vendor.</p> <p>Update estimated design and construction schedules.</p> <p>Submit Basis of Design memorandum and 30% drawings for review and workshops</p> <p>Review and incorporate plant survey into design.</p> <p>Complete subsurface borings and review geotechnical report.</p> <p>Assist JXN Water and Jacobs with alternative delivery/construction manager at risk procurement discussions as necessary.</p> <p>Re-scope the project to complete two design packages to fast-track the temporary bulk-hypochlorite system design.</p>
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			geotechnical borings and geotechnical report to support design of chemical feed systems.		<p>the Chemical Feed Building. Initial findings were presented to JXN Water and Jacobs.</p> <p>Completed preliminary design and construction schedules for traditional design, bid, build and alternative delivery procurement. Presented schedules to JXN Water and Jacobs.</p> <p>Hosted vendor workshops for De Nora and USGI to present their on-site hypochlorite generation equipment technology to JXN Water and Jacobs.</p> <p>Prepared a Class 5 opinion of probable construction cost for liquid ammonium sulfate and aqua ammonia systems. OPCC was presented to JXN Water and Jacobs in TM Nos. 1 and 2 Review Workshop.</p> <p>Engaged geotechnical subconsultant and prepared scope of work for subsurface borings.</p>		
11	Performance Evaluation and Redundancy Plant Treatment	Subject work completed.	Operations Evaluation at OBC and JHF – Phase 1 (MSA Task Order #3)	Jacobs	Visually assessed major (parent) plant assets. Did not perform predictive testing at request of O&M because of upstream and downstream equipment	None	None. Phase1 complete in Q1 2023.

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	Processes Restoration		Condition Assessment at OBC – Phase 1 (MSA Task Order #2)	Jacobs	unknowns and sensitivity to plant upsets.		
11	Source Water Quality/Treatability Characterization Study (OBC and Barnett Reservoir)	Consultant progressing work	OBC Raw Water Characterization and Treatability Study (Task Order #6)  Process Hydraulic Assessments at OBC and JHF and JHF and OBC Raw Water Characterization and Treatability Study (Amendment 1)	Jacobs	Completed process analysis and regulatory review of both WTPs.  Continued bench-scale testing and water characterization.  Progressed hydraulic model of both WTP.  Began working on developing projects for CIP and overall prioritization.	None	Complete process review for both WTPs.  Complete on dynamic simulation model for both WTPs.  Complete bench-scale pre-treatment treatability study at both WTPs.  Begin developing project list based on investigation results and condition and operational assessments being performed under separate authorizations.  Develop overall CIP with schedule for both WTPs.



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11. a,g	OBC Filter Conventional and Membrane	Contractor progressing work	Filter Rehabilitation Contact for OBC  OBC Filter Rehabilitation – Change Order #1 - Valve and Actuator Manufacturer Change and Sediment Basin Drain Line Scope Reduction	Hemphill	<p><b>Filter 5 – filter cell rehabilitation</b></p> <ul style="list-style-type: none"> <li>- Executed WCD-04. Contractor is proceeding with submittals and equipment procurement.</li> <li>- Completed work related to clearing the drain line between the sediment basins and equalization basins. The line was found to be clear and did not need to be replaced.</li> <li>- Approved Change Order #1 provided alternate valve and actuator manufacturers and added additional valve and actuator replacements associated with the conventional filters. Change order credited the drain line repair work that was not necessary. This change resulted in a (\$1.67M) credit.</li> </ul> <p><b>Temporary sludge removal system installation</b></p> <ul style="list-style-type: none"> <li>- Reviewing and selecting equipment (hoseless sludge collectors).</li> <li>- Progressed design of sludge removal system.</li> <li>- Incorporating replacement of the effluent launders into the design.</li> </ul>	None	<p><b>Filter 5 – filter cell rehabilitation</b></p> <ul style="list-style-type: none"> <li>- Continue with valve and actuator submittals and equipment procurement.</li> </ul> <p><b>Temporary sludge removal system installation</b></p> <ul style="list-style-type: none"> <li>- Complete design temporary sludge removal system and effluent launder replacement in Sedimentation Basins 1, 2, and 3.</li> <li>- Submit to Contractor for pricing.</li> <li>- Begin installation effort.</li> </ul>

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11. g	JHF Filters	Contractor progressing work	JHF Filters 24 and 26 Contract  JHF Filters 24 and 26 Change Order # 1 – Concrete Crack and Leak Repair  JHF Filters 24 and 26 Change Order # 2 – Filter to Waste Tie-in to Waste Gullet and 30” Backwash Valve Replacement	Hemphill	Completed initial exploration of Filters 24 and 26, observed leaking in both Filters 24 and 26, and corrected leaks through concrete.  Executed Change Order #2 which includes tying in 6-inch filter-to-waste lines into the waste gullet, and replacing 30-inch backwash valve.	Change Order 01 and 02 added 89 days to the contract.	Repair all leaks and return both filters into operation.  Complete punch list items.

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Other	Plant Operations Program Management	Consultant progressing work	Jackson Water Program Management Support (Task Order #2)	Jacobs	<p>Maintaining governance framework implemented in Q1.</p> <p>Developing draft workflows and tools for various processes including construction management, quality, engineering project delivery, etc.</p> <p>Provided immediate engineering management services to expedite delivery of ongoing work including SCADA, CIP development, and surface to well conversion.</p> <p>Prepared and delivered progress performance reports.</p> <p>Onboarded communications manager and initiated communications process development.</p>	None	Complete development and implementation of management plans, including Controls, Procurement, Performance Management, Communications, Engineering Management, Construction Management, Health and Safety, and Quality Assurance.
Other	Forrest Hill Surface to Well Conversion	Initiated work.	Engineering/Design Support and Existing Contract Redesign Services (Task Order #4)	Jacobs	Initiated project and project planning.	None	Prepare and submit communications plan, sampling plan, transition request letter to MSDH, and modelling plan and model analysis.

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Other	Strategic Communications Strategy and Consultation	Issued task order for communications strategy support and initiated work.	Issued task order for communications strategy support issued	HDR	<p>Prepared communications research.</p> <p>Audited existing messaging, channels, tactics, and opportunities.</p> <p>Prepared community analytics reports.</p> <p>Prepared comparison reports by ward.</p> <p>Assessed media coverage and public sentiment.</p> <p>Conducted research via conversation with Jackson contacts.</p> <p>Assisted Interim Third-Party Manager with media communications, press releases and public meeting preparation.</p> <p>Facilitated Communications Strategy Workshop in Jackson on June 28-29, 2023. Objectives included capturing the current and future desired states of the JXN Water brand and discussing the implementation plan for the path forward.</p>	None	<p>Finalize Communications and Media Strategy document.</p> <p>Continue providing as-needed communications support.</p> <p>Technical messaging and support for social media, paid media, website and video.</p> <p>Newsroom development.</p>

Notes:

ARV = air release valve  
 BIM = Building Information Modelling  
 CMMS = Computerized Maintenance Management System  
 CO<sub>2</sub> = carbon dioxide  
 GIS = geographic information system

MSDH = Mississippi State Department of Health  
 NTP = Notice to Proceed  
 O&M = operations and maintenance  
 P&ID = piping and instrumentation diagram  
 QA/QC – quality assurance/quality control

SCADA = supervisory control and data acquisition  
 SOP = standard operating procedure  
 SRF = State Revolving Fund  
 TM = technical memorandum(s)  
 WCD – Work Change Directive