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ADMITTED IN KY AND WV

May 22, 2023

Public Service Commission
P.O. Box 615
Frankfort, KY 40602

RE: Martin County Water District
PSC Case No. 2020-00154

To Whom It May Concern:

Enclosed please find Martin County Water District's Notice of Filing the information packet for the May 23, 2023 Board meeting.

Thank you for your attention to this matter.

Very truly yours,


BRIAN CUMBO

BC/ld

Enclosure

cc: Martin County Water District
Hon. Mary Varson Cromer

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

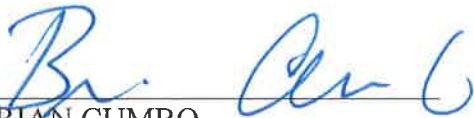
In the Matter of:

ELECTRONIC MARTIN COUNTY WATER)
DISTRICT MANAGEMENT AND OPERATION)
MONITORING PURSUANT TO KRS 278.250)

CASE NO. 2020-00154

NOTICE OF FILING

Comes the Martin County Water District, by counsel, and hereby gives Notice of Filing of the attached information packet for the Martin District monthly Board meeting scheduled for May 23, 2023.


BRIAN CUMBO
COUNSEL FOR MARTIN COUNTY
WATER DISTRICT
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CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was served via electronic filing on this the 22nd day of May, 2023, to the following:

Public Service Commission
ATTN: Nancy Vinsel
P.O. Box 615
Frankfort, KY 40602

Hon. Mary Varson Cromer
Appalachian Citizens' Law Center, Inc.
317 Main Street
Whitesburg, KY 41858


BRIAN CUMBO

Martin County Water District
387 E. Main St.

Phone (606) 298-3885 Inez, Kentucky 41224

Regular Meeting, Tuesday, May 23, 2023 – 6:00 p.m.
Martin County Government Center (2nd Floor)

- 1) Call the meeting to order
- 2) Review and Consideration to Approve Minutes
- 3) Review and Consideration of Financial Reports
 - A. Review and Consideration to Approve Treasurer's Report
 - B. Review and Consideration to Approve Other Financials
- 4) Review and Consideration to Approve Bills
- 5) Legal
 - A. Any Issues for Discussion with Board Attorney
- 6) Operations
 - A. Alliance Operations Report
 - B. Water Loss Report
 - C. Leak Adjustments
- 7) Capital Projects Report
 - A. Project Updates
 - B. 5 Year CIP
- 8) Other Old Business
- 9) Other New Business
 - A. 40 East Booster Station VFD
- 10) Consider Motion to Convene into Closed Executive Session
- 11) Consider Motion to Close Executive Session
- 12) Introduction of Guest-Five (5) Minute Maximum
- 13) Adjourn

Notice is hereby given that, subject to a motion duly made and adopted, the Board of Directors may hold an Executive Session subject to the laws of Kentucky.

**Martin County Water District
Regular Meeting of the Board of Directors
April 25, 2023, Meeting Minutes**

Presiding: James Kerr, Chairman

Present: Directors: Greg Crum, BJ Slone, Nina McCoy, John Hensley
Staff: Brian Cumbo (Attorney), Craig Miller (GM), Tyler Hall, (LM),
Cassandra Moore

Guests:

The Regular Meeting of the Martin County Water District was held on April 25, 2023, at the Martin County Government Center, at 42 East Main St (2nd Floor), Inez, Kentucky 41224. Mr. Kerr called the meeting to order at 6:00 p.m.

Mr. Kerr called for review of the March 28, 2023, Regular Board Meeting minutes.

- Mr. Hensley motioned to accept the March 28, 2023 minutes
- Mrs. McCoy seconded
- All ayes
- Motion carried

Mr. Kerr requested discussion of the review and consideration of the Financial Reports.

- Mr. Miller detailed each report as submitted
- Mr. Slone motioned to approve the Treasurer's report submitted
- Mr. Crum seconded
- All ayes
- Motion carried
- Mr. Miller presented Other Financials
- Mrs. McCoy motioned to approve Other Financials
- Mr. Slone seconded
- All ayes
- Motion carried

Mr. Kerr called for review and consideration to Approve Bills.

- Mr. Hensley motioned to approve the List of Bills
- Mr. Slone seconded
- All ayes

- Motion carried

Mr. Kerr asked if there were any legal issues to discuss.

- No legal issues to discuss this meeting

Mr. Kerr called for review of the Operations Report.

- Staff has completed and submitted the yearly UFR's. This keeps us up to date with all our information and records to the PSC
- Leger Electric and AEP finished permanent power installation at the Raw Water Intake site. This allowed crews to set-up the 1.8 MGD pump and resume pumping to the reservoir
- Repaired leaking brake lines and seized master cylinders on WTP sludge truck
- Greased both Turkey booster pumps
- Distribution team members have also been implementing a leak detection program that yielded great results
- R&L paving completed work on overdue asphalt and concrete repair work needed throughout the district
- Staff had two employees pass certification tests, and one missed by one question. Employee will be retesting at the next earliest convenience. Mr. Hall passed his certification test as well. Staff and AWR are extremely proud of these employees

Mr. Miller presented an update of the water loss report.

- Water loss was reported at **78.49%** for the month of March 2023
- Staff is taking a systematic approach to leak detecting and has started with the DM#4 Zone (Turkey Creek)
- Water sales were way below average
- Last week of March Staff found a huge leak at Calf Creek
- Mr. Miller provided the Board with a DM #4 (Turkey Creek) break down of tank productions for the past year
- Mr. Miller pointed out that in March the monthly production was 3,400,406 with a daily production of 97,154. He advised that from the leak you could now see on the report in April the monthly production was down to 1,305,192 monthly and 46,614 for daily production
- The average production of 46,000 per day has now been sustained for the past four (4) weeks
- This allows us to get 1 1/3 day from the tank before having to turn it back over. Turkey pump was turning on six (6) to seven (7) times per day. It's now running between one (1) and two (2) times per day
- This is less wear and tear on the pumps and allows us to keep customers in water longer should an event happen

- The average customer consumption is seven hundred forty-five thousand (745,000) a month on Turkey Creek. In order to achieve zero (0) percent water loss we should pump seven hundred forty-five thousand (745,000) a month on average. Seven hundred forty-five thousand (745,000) a month would be twenty-four thousand eight hundred thirty-three (24,833) per day or seventeen (17) gpm. Currently we are losing five hundred sixty-one thousand six eighty-nine (561,689) per month, eighteen thousand seven hundred twenty-two (18,722) per day, or thirteen (13) gpm. Thirteen (13) gpm will be a tough leak or leaks to find. This shows that the lower the loss, the harder it is to find

Mr. Miller presented the Board with the April Leak Adjustments.

- Mr. Slone motioned to approve the April Leak Adjustments
- Mr. Hensley seconded
- All ayes
- Motion carried

Mr. Miller presented an update on the capital projects report.

- Mr. Miller stated that the transfer switch is now at a secondary location. It had to be shipped from the initial manufacturer to a secondary manufacturer in order to fit our system. According to Pace it is on a priority and we should receive it in a month. This will put us sometime in June having the generator on at the water plant and ready to run twenty -four seven (24/7). It will have a phase monitor as well, and this will allow the generator to be tripped anytime we receive “dirty power”.
- Mr. Miller advised that the Raw water intake has the small pump and VFD in and ready to go. Everything is hardwired. Still waiting on Southern Flow to work on some scada issues.
- Mr. Miller stated that the last of the clarifier welds have been finished at the plant. We're about a week away from having water in the clarifier.
- Mr. Kerr moved to Capital Project update seven (7) B the five (5) year CIP.
- Mr. Miller advised he was going to continue to leave the CIP in the packet each month so the Board and Customers can continue to see what work needs done in the system.
- Mr. Kerr asked if we could change Coldwater to a one (1) on the priority scale?
- Mr. Miller recommended that Coldwater be changed to a one (1)
- Mr. Hensley motioned to make Coldwater a one (1) on the CIP priority scale
- Mr. Slone seconded
- All ayes
- Motion carried
- Mr. Miller presented the Board with an extension request from Pace Contracting.
- Pace sent a letter to Steve Caudill with Bell Engineering stating “We request a time extension to the subject project of 245 calendar days to make the Substantial Completion date December 1st and the Final Completion date December 31st for the following reasons that are out of our control: The large pump VFD at the RWI

pump station still have an expected 30-36 week lead time. No update has been provided to this point, and those lead times have not started. Pace cannot complete the electrical building expansion/remodel until those items arrive on site.”

- Mr. Slone motioned to approve the project extension request
- Mr. Hensley seconded
- All ayes
- Motion carried

Mr. Kerr inquired if there was any Other Old Business to discuss.

- Mr. Kerr asked if anyone’s mind had changed about the one call system
- Mr. Miller advised it was still on the Board packet, because we didn’t want it to just disappear from the agenda
- Mr. Miller stated he was going to investigate about different ways to get the word out about signing up for the webpage
- Mr. Hensley mentioned posting the information and sharing on the MCWD website to remind customers about signing up
- Mr. Kerr mentioned holding until six (6) months and update with the number of customers that have signed up for the alerts

Mr. Kerr inquired if there was any Other New Business to discuss.

- Staff presented the Board with a memo for the Honey Branch BPS Control Valve
- Mr. Miller stated that the district has been pumping for eight (8) hours a day for the past six (6) weeks. We will be getting a check from Prestonsburg Utilities for this past month. As we continue to fix this issue we can continue to pump. We have a right to pump twelve (12) hours a day. We start pumping twelve (12) hours a day, it will definitely have a good impact. But the issue we have right now is the control valve that is leaking. Staff has been investigating if there was another alternative that could be used, but based on the way the Bermad valve is designed we would have to re-tool the station. Another issue is once it fails we could have a “hammer” on new Rt. 3. If the board agrees, Staff recommends purchasing the six (6) inch Bermad Hydraulic Non-Slam Check Valve/Full Port Classic Body with C606 Grooved Connections from Citco Water. There are two valves on the memo
- Staff is presenting the Board with a vendor quote for a new flow control valve at the Honey Branch BPS. The valve is no longer regulating station pressure correctly during start up and shut down to prevent pipeline surges.
- Request for quotes were sent to and returned by the following:
- Citco Water six (6) inch Bermad Hydraulic Non-Slam Check Valve/Full Port Classic Body with C606 Grooved Connections with a cost of four thousand four hundred ninety-three dollars (\$4,493) with an anticipated delivery of four (4) to six (6) week lead time
- Citco Water six (6) inch Bermad Hydraulic Non-Slam Check Valve/Full Port Sigma Body with one fifty (150) Flanged Connections with a cost of four thousand two hundred ninety-six dollars (\$4,296) with an anticipated delivery of two (2) to three (3) week lead time

- Mr. Slone motioned to approve the six (6) inch Bermad Hydraulic Non-Slam Check Valve/Full Port Classic Body with C606 Grooved Connections with a cost of four thousand four hundred ninety-three dollars (\$4,493) with an anticipated delivery of four (4) to six (6) week lead time
- Mr. Hensley seconded
- All ayes
- Motion carried

Executive session not required.

Mr. Kerr inquired if there were any guest requesting to speak.

Mr. Kerr requested a motion to adjourn.

- Mr. Hensley motioned to adjourn meeting at 6:54 p.m.
- Mrs. McCoy seconded
- All ayes
- Motion Carried

Minutes approved this _____ day of _____, 2023.

James Kerr, Chairman

Cassandra Moore, District Clerk

Martin County Water District
Balance Sheet
April 30, 2023

4/30/23

ASSETS

CURRENT ASSETS

| | | |
|--|----|-------------------|
| Checking Account - Operations | \$ | 26,137.45 |
| Revenue Fund - EFT | | 10,323.45 |
| Debt Service Surcharge Fund | | 48,472.37 |
| Management Infrastructure Surcharge Fund | | 1,000.06 |
| Security Deposits | | 98,439.60 |
| Cash on Hand | | 900.00 |
| Total Cash | | 185,272.93 |
| Accounts Receivable | | 336,898.78 |
| Allowance for Doubtful Accounts | | (45,659.54) |
| Unbilled Accounts Receivable | | 80,438.00 |
| Inventory | | 2,948.14 |
| Prepaid Expenses | | 11,115.85 |
| Total Current Assets | | 571,014.16 |

PROPERTY, PLANT, & EQUIPMENT

| | |
|---|----------------------|
| Land | 214,713.83 |
| Water Supply & Distribution System | 28,417,388.93 |
| Buildings | 500,263.89 |
| Equipment & Furniture | 6,340,341.06 |
| Vehicles | 69,420.45 |
| Leased Assets | 33,934.71 |
| Less: Accumulated Amortization - ROU leased asset | (12,626.88) |
| Less: Accumulated Depreciation | (18,669,283.40) |
| Net Property, Plant, & Equipment | 16,894,152.59 |

RESTRICTED CASH

| | |
|----------------------------------|-------------------|
| Grant Fund | 63.07 |
| Sinking Fund - RD | 4,859.69 |
| Regions Sinking Fund | 50,764.03 |
| KIA Sinking Fund | 6,135.90 |
| KACO Sinking Fund | 953.46 |
| Depreciation Fund | 1,022.32 |
| Cost of Issuance Fund 2022 | 2,098.00 |
| Certificate Fund - 2022 Debt Svc | 37,358.64 |
| Revenue Fund - 2022 | 3,429.70 |
| Accrued Interest Receivable | 365.00 |
| Total Restricted Cash | 107,049.81 |

Total Assets **\$ 17,572,216.56**

Martin County Water District
Balance Sheet
April 30, 2023

4/30/23

LIABILITIES AND DISTRICT'S EQUITY

CURRENT LIABILITIES

| | | |
|----------------------------------|----|-------------------|
| Accounts Payable | \$ | 105,307.20 |
| Sales Tax Payable | | 2,562.89 |
| School Tax Payable | | 6,714.35 |
| Long Term Debt-Current | | 54,845.14 |
| Accrued Interest Payable | | 28,523.34 |
| Customer Deposits | | 91,604.43 |
| Total Current Liabilities | | 289,557.35 |

LONG-TERM DEBT

| | | |
|--|--|---------------------|
| Lease Liability - Rent | | 22,223.69 |
| Note Payable - KIA | | 263,864.01 |
| Lease Payable - KACO | | 26,221.96 |
| Bonds Payable - 2015 E Current Refunding | | 1,585,000.00 |
| Bonds Premium - 2015 E, Net of A/Amort | | 16,356.12 |
| Bonds Payable - 2022 B | | 1,110,000.00 |
| Bonds Premium - 2022 B, Net of A/Amort | | 2,963.82 |
| Less Current Portion of L-Term Debt | | (54,845.14) |
| Other Inflow Resources - Pension | | 372,879.00 |
| Total Long-Term Debt | | 3,344,663.46 |

Total Liabilities

3,634,220.81

DISTRICT'S EQUITY

| | | |
|--------------------------------|--|----------------------|
| Retained Earnings (Deficit) | | 14,091,210.57 |
| YTD Net Income | | (153,214.82) |
| Total District's Equity | | 13,937,995.75 |

Total Liabilities and District's Equity

\$ 17,572,216.56

Martin County Water District
Statement of Revenues and Expenses
Fiscal Year Jan 01 to Dec 31
For the Month Ending
Actual vs Budget

| April, 2023 | | | YTD | | |
|-----------------|--------------------|---|---------------------|---------------------|---------------------|
| Actual | Budget | | Actual | Budget | Annual Budget |
| | | Operating Revenues | | | |
| \$ 174,673 | \$ 175,833 | Water Sales - Residential | \$ 695,342 | \$ 703,332 | \$ 2,110,000 |
| 34,283 | 29,167 | Water Sales - Commercial | 119,706 | 116,668 | 350,000 |
| 22,178 | 10,000 | Water Sales - Public Authorities | 41,790 | 40,000 | 120,000 |
| 165 | 4 | Bulk Water Sales | 165 | 16 | 50 |
| 8,075 | 2,437 | Connection Fees - Tap | 11,075 | 9,748 | 29,246 |
| 5,400 | 4,583 | Late Charge Fees | 23,252 | 18,332 | 55,000 |
| 1,175 | 2,650 | Reconnect/Meter Sets/Other Fees | 6,373 | 10,600 | 31,801 |
| 8,703 | 8,917 | Debt Service Surcharge | 34,939 | 35,668 | 107,000 |
| 15,619 | 15,839 | Management Infrastructure Surcharge | 62,714 | 63,356 | 190,070 |
| <u>270,272</u> | <u>249,430</u> | Total Operating Revenues | <u>995,357</u> | <u>997,720</u> | <u>2,993,167</u> |
| | | Operating Expenses | | | |
| - | 7,500 | Water Purchased | 12,092 | 30,000 | 90,000 |
| 168,507 | 168,507 | Management & Operations Contract | 674,028 | 674,028 | 2,022,084 |
| 18,032 | 27,917 | Utilities | 80,483 | 111,668 | 335,000 |
| 2,219 | 2,500 | Insurance | 8,815 | 10,000 | 30,000 |
| 2,422 | 5,000 | Repairs & Maintenance | 46,665 | 20,000 | 60,000 |
| 45 | 250 | Outside Services | 184 | 1,000 | 3,000 |
| 288 | 800 | Legal Expenses | 2,813 | 3,200 | 9,600 |
| - | - | Accounting/Audit | 7,985 | 8,000 | 8,000 |
| 4,167 | 4,167 | Bad Debts | 16,667 | 16,668 | 50,000 |
| - | - | Bond Trustee Fees | 900 | 500 | 500 |
| 385 | 270 | Dues | 1,540 | 1,080 | 3,235 |
| 298 | 228 | Office Expense | 1,426 | 912 | 2,732 |
| 25 | 833 | Rent Expense | 25 | 3,332 | 10,000 |
| 129 | 125 | KY 811 Services | 489 | 500 | 1,500 |
| 45 | 54 | Miscellaneous Expenses | 193 | 216 | 652 |
| 9 | 4 | Customer Deposit Interest Expense | 17 | 16 | 53 |
| <u>196,570</u> | <u>218,155</u> | Total Operating Expenses | <u>854,323</u> | <u>881,120</u> | <u>2,626,356</u> |
| <u>73,702</u> | <u>31,275</u> | Net Income B/4 Other Income (Expenses) | <u>141,034</u> | <u>116,600</u> | <u>366,811</u> |
| | | Other Income (Expenses) | | | |
| 1,645 | - | Gain (Loss) on Sale of Assets | 1,645 | - | - |
| 380 | - | Interest Income | 1,462 | - | - |
| (8,862) | (8,333) | Interest Expense | (35,767) | (33,332) | (100,000) |
| (397) | 63 | Amortization | (1,588) | 252 | 753 |
| (65,000) | (65,000) | Depreciation | (260,000) | (260,000) | (780,000) |
| <u>(72,235)</u> | <u>(73,270)</u> | Total Other Income (Expenses) | <u>(294,249)</u> | <u>(293,080)</u> | <u>(879,247)</u> |
| <u>\$ 1,467</u> | <u>\$ (41,995)</u> | Net Income (Loss) | <u>\$ (153,215)</u> | <u>\$ (176,480)</u> | <u>\$ (512,436)</u> |

**Martin County Water District
Inez, KY**

Treasury Report

| | | |
|--|---------------|----------------------|
| Billing Charges For the Month of: | Apr-23 | |
| Water Revenue | | \$ 174,673.42 |
| Water Revenue-Commercial | | 34,282.76 |
| Water Revenue-Commercial Exempt | | 6,593.33 |
| Late Charges | | 5,400.28 |
| Sales Taxes | | 2,446.86 |
| Debt Service Surcharge | | 8,702.91 |
| School Tax | | 6,728.01 |
| Management Infrastructure Surcharge | | 15,618.95 |
| Returned Check | | 1,348.60 |
| Interest on Customer Deposits | | (9.08) |
| Connection Fees | | 8,075.32 |
| Other Miscellaneous Fees | | 1,165.00 |
| Deposits Applied | | (855.00) |
| Refund Checks Paid | | 336.01 |
| Total Billing Charges | | \$ 264,507.37 |
| | | <hr/> |
| Gallons Billed | | 13,426,980 |
| | | <hr/> |
| Customers Billed | | 3,346 |
| | | <hr/> |

| | | |
|---|---------------|-------------------|
| Accounts Receivable | Apr-23 | |
| Beginning Balance | | 291,542.73 |
| Billing Charges | | 264,507.37 |
| Bad Debt (Write Offs) Recoveries | | 153.12 |
| Accounts Receivable Collections | | (219,647.60) |
| End of Month Accounts Receivable | | 336,555.62 |
| | | <hr/> |

| | | |
|---|--|---------------------|
| Operations Account | | |
| Beginning Balance | | \$ 23,590.04 |
| Deposits | | |
| Accounts Receivable Collections | | 219,647.60 |
| Accounts Receivable Collections - Pmts in EFT Revenue Account | | (89,874.07) |
| Sewer Billing Collections in Water Bank Acct - Due to MCS | | 64,859.80 |
| Customer Deposits Received | | 1,310.00 |
| Miscellaneous Income (Hydrant Meter, Tokens) | | 175.03 |
| Auctioned vehicle proceeds | | 4,000.00 |
| Prestonsburg Utilities | | 15,584.80 |
| Transfers from Other District Accts | | 87,500.00 |
| Total Deposits | | <hr/> 303,203.16 |
| Disbursements: | | |
| Checks Written | | (184,387.09) |
| Pmts made to Sanitation for A/R Collections | | (69,102.79) |
| Transfers to Other District Accts | | (15,996.89) |
| Auto Drafted Utilities | | (22,206.00) |
| Sales and School Tax Payments | | (7,568.44) |
| Returned Checks | | (1,349.54) |
| Bank Fees | | (45.00) |
| End of Month Balance | | \$ 26,137.45 |
| | | <hr/> |

| | | |
|-------------------------------------|---------------|-----------------------|
| Cash Receipts Collected To Date in: | May-23 | 201,092.11 |
| Bills Submitted for Payment in: | May-23 | (225,949.50) |
| Available Balance | 3A-4 | <hr/> 1,280.06 |

Martin County Water District
Inez, KY
Treasury Report
Summary of Cash & Investments
April 30, 2023

| Bank Account | Beginning Balance | Deposits | Interest Earned, Net of Fees | Payments | Ending Balance |
|-------------------------------------|----------------------|-------------------|------------------------------------|---------------------|----------------------|
| Operations Account | \$ 23,590.04 | 303,203.16 | - | (300,655.75) | \$ 26,137.45 |
| Revenue EFT Account | 8,366.60 | 89,874.07 | - | (87,917.22) | 10,323.45 |
| Debt Service Surcharge | 43,295.02 | 5,176.58 | 0.77 | - | 48,472.37 |
| Management Infrastructure Surcharge | 1,000.15 | 9,290.31 | 0.06 | (9,290.46) | 1,000.06 |
| Security Deposits | 97,241.54 | 1,530.00 | 4.07 | (336.01) | 98,439.60 |
| Cash on Hand | 900.00 | - | - | - | 900.00 |
| Total Unrestricted Cash | 174,393.35 | 409,074.12 | 4.90 | (398,199.44) | 185,272.93 |
| Restricted Cash | | | | | |
| ARC Grant | 63.07 | - | - | - | 63.07 |
| Rockhouse Project | 15,310.00 | - | - | (10,450.31) | 4,859.69 |
| Regions Bank-KY 2015E Martin County | 40,185.31 | 10,450.31 | 128.41 | - | 50,764.03 |
| KIA Bond & Interest | 11,801.17 | - | 0.11 | (5,665.38) | 6,135.90 |
| KY Assoc of Counties Leasing Trust | 1,106.88 | - | 0.02 | (153.44) | 953.46 |
| Depreciation Reserve | 1,022.30 | - | 0.02 | - | 1,022.32 |
| Cost of Issuance Fund 2022 | 2,098.00 | - | - | - | 2,098.00 |
| Certificate Fund - 2022 Debt Svc | 37,216.19 | - | 142.45 | - | 37,358.64 |
| Revenue Fund - 2022 | 3,416.62 | - | 13.08 | - | 3,429.70 |
| Total Restricted Cash | 112,219.54 | 10,450.31 | 284.09 | (16,269.13) | 106,684.81 |
| Total Cash & Investments | \$ 286,612.89 | 419,524.43 | 288.99 | (414,468.57) | \$ 291,957.74 |

**Martin County Water District
Billing Summary**

| Date | Billed | | Gallons (000'S) | Billed # of Customers | Payments Received |
|--------|---------|-----------|--------------------|--------------------------|----------------------|
| | Revenue | YTD Total | | | |
| Apr-23 | 224,371 | 877,808 | 13,427 | 3,346 | 219,648 |
| Mar-23 | 193,481 | 653,437 | 9,299 | 3,363 | 249,444 |
| Feb-23 | 219,471 | 459,955 | 12,515 | 3,370 | 257,299 |
| Jan-23 | 240,484 | 240,484 | 14,906 | 3,383 | 296,876 |
| Dec-22 | 217,251 | 2,595,436 | 12,429 | 3,374 | 226,327 |
| Nov-22 | 213,516 | 2,378,186 | 12,064 | 3,389 | 232,620 |
| Oct-22 | 199,884 | 2,164,670 | 10,420 | 3,400 | 256,624 |
| Sep-22 | 232,922 | 1,964,786 | 13,890 | 3,417 | 262,588 |
| Aug-22 | 217,328 | 1,731,864 | 12,413 | 3,402 | 263,138 |
| Jul-22 | 226,961 | 1,514,536 | 13,381 | 3,410 | 254,075 |
| Jun-22 | 219,810 | 1,287,575 | 12,580 | 3,409 | 255,445 |
| May-22 | 227,120 | 1,067,765 | 13,264 | 3,408 | 228,491 |
| Apr-22 | 217,383 | 840,645 | 12,472 | 3,400 | 326,456 |

Martin County Water District, Inez KY
List of Bills for Consideration
23-May-23

| <u>Vendor</u> | <u>Description</u> | <u>Amount</u> |
|--------------------------------|---|----------------------|
| Operations Account | | |
| 1 AEP | Electric (26 bills) Estimated | \$ 15,297.88 |
| 2 Big Sandy RECC | Electric (9 bills) Estimated | \$ 2,539.19 |
| 3 Paintsville Utilities | Electric for token (3/03/22 to 4/03/23) Estimated | \$ 52.91 |
| 4 Martin County Public Library | Rent (June) | \$ 819.40 |
| 5 Martin County Water District | Sanitation (Apr) | \$ 141.67 |
| 6 Sales tax | 4/2023 (estimated) | \$ 2,406.89 |
| 7 School tax | 4/2023 (estimated) | \$ 6,731.14 |
| 8 Alliance Water Resources | 5/1/23-5/15/23 O&M services | \$ 84,253.50 |
| 9 Alliance Water Resources | 5/16/23-5/31/23 O&M services | \$ 84,253.50 |
| 10 Alliance Water Resources | Insurance Policy Installment (5/10) | \$ 1,156.77 |
| 11 Management Inf. Surcharge | Estimated (actual collected will be paid) | \$ 9,290.31 |
| 12 Debt Service Surcharge | Estimated (actual collected will be paid) | \$ 10,248.07 |
| 13 Kentucky Underground | 811 Services (Apr) | \$ 129.00 |
| 14 Brian Cumbo | Legal Fees | \$ 287.50 |
| 15 Estech Systems | Phone System (Apr) | \$ 219.16 |
| 16 NexBillPay | Fees (Apr) | \$ 75.00 |
| 17 Consolidated Pipe | Parts | \$ 154.25 |
| 18 Consolidated Pipe | Parts | \$ 2,459.67 |
| 19 Consolidated Pipe | Parts | \$ 236.20 |
| 20 Consolidated Pipe | Parts | \$ 8.19 |
| 21 Consolidated Pipe | Parts | \$ 679.78 |
| 22 Consolidated Pipe | Parts | \$ 310.00 |
| 23 Consolidated Pipe | Parts | \$ 379.49 |
| 24 Consolidated Pipe | Meters | \$ 2,540.00 |
| 25 Consolidated Pipe | Parts | \$ 301.67 |
| 26 Consolidated Pipe | Parts | \$ 423.06 |
| 27 Consolidated Pipe | Parts | \$ 555.30 |
| TOTAL | | \$ 225,949.50 |

| Operations Account - Debt Service Funding | | Transfer Amounts |
|--|-----------------------------------|-------------------------|
| 1 KIA | Monthly funding for KIA Bond/Loan | \$ 5,800.00 |
| 2 KACo | Monthly funding for lease payment | \$ 1,200.00 |
| 3 KRW/Regions Bank | Monthly funding for loan | \$ 10,800.00 |

Martin County Water District, Inez KY
List of Bills for Consideration
23-May-23

| <u>Vendor</u> | <u>Description</u> | <u>Amount</u> |
|-------------------------------------|--------------------------------|----------------------|
| TOTAL | | \$ 17,800.00 |
| TOTAL OPERATIONS | | \$ 243,749.50 |
| Security Deposit Account | | |
| Customer | | |
| 1 Christina Chapman | Deposit refund due to customer | \$ 10.23 |
| 2 Laura Bryant | Deposit refund due to customer | \$ 0.97 |
| 3 Eric Harris | Deposit refund due to customer | \$ 8.37 |
| 4 Linda Stacy | Deposit refund due to customer | \$ 50.05 |
| 5 Iwona Przmborowski | Deposit refund due to customer | \$ 66.88 |
| 6 Lewis Lee Blevins | Deposit refund due to customer | \$ 48.97 |
| 7 Dorse Jude | Deposit refund due to customer | \$ 59.33 |
| TOTAL | | \$ 185.47 |

**OUR
MISSION**

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

Alliance Water Resources, Inc.

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

(573) 874-8080

April 2023

Administrative

Staff is continuing to update the webpage and inform customers to sign up for alerts. The webpage can be located on the back of customer bill cards.

Water Treatment

WTP Operators performed routine backwashing of filters on Clarifiers 1 & 2 to ensure proper filtration. WTP operators also collected bi-weekly and special bacteriological and fluoride distribution system samples for system monitoring and compliance.

Started a 6-month coupon study to better evaluate effluent water characteristics and treatment efficiency to help determine if treatment adjustments are needed.

Repairs were made to the braking system of the Ford sludge truck. Staff is now able to utilize the 2,400-gallon tank for sludge removal at the WTP. However, the existing metal tank is in constant need of leak repairs.

Raw water intake VFD has issues within the drive in the AC/DC power converter. Inspections are being performed on the VFD to determine the cause of the issue and formulate a plan for repair. This issue has been resolved in the past week.

Changed belt and greased flash mix motor to aid with hydraulic mixing and ensure proper coagulation as the treatment process begins.

Picked up a new BPS cover for the Big Lick BPS that is in disrepair and causes pump/VFD access to be difficult.

Microcomm remotely repaired a signal issue that temporarily caused CI17 and online turbidimeter readings to not properly store backup readings.

Big Sandy RECC was called to restore power to the Marcus Well GST and central telemetry location after a tree downed a line near the tank. Due to quick responses from staff and Big Sandy RECC, telemetry for the system was restored within a few hours.

Generator transfer switch was delivered to the WTP along with a generator to


Professional Water and Wastewater Operations
Martin County Water District

temporarily run the plant while permanent generator is being hooked up. Total expected downtime for the WTP during the installation is 6-8 hours over the span of two days.

Collected second of four UCMR 5 samples to be sent for PFAs evaluation by an EPA certified laboratory.

Revised main line locations on GIS for Sawmill Hollow and Venters Branch.

Distribution:

Installed a new commercial tap on Rt. 645.

Replaced 55' of 3" line on Thickety Fork due to the line being struck by contractors in multiple locations.

Extensively leak detected Old Rt. 3 from Little Country Market to Buffalo Horn BPS.

Crews completed line locate requests, replaced leaking shutoffs and setters, and routine service orders.

New tires were installed on the equipment trailer.

Replaced 40' of 6" PVC and eliminated two 90 degree fittings that ran under a section of the old highway along New Rt. 3. This should help prevent future breaks along this section of main.

Replaced leaking 200 PSI pressure gauge on the effluent line at 40 East BPS.

Repaired a line break on the 14" transmission line near the WTP. The issue was caused by a blown gasket on a Hymax coupling due to the line being in an extreme bind.

Staff repaired over fifteen ¾" service line leaks, one 1", two 6", two 3", and four 8" line breaks.

Staff completed routine service orders, replaced leaking shut-offs, completed site remediations, pre-tap inspections, and line locate requests.

Safety

The monthly safety meeting was held on April 4th and covered Distracted Driving, Vehicle Backing, and Hazardous Driving Conditions.



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 Professional Water and Wastewater Operations

Martin County Water District

Training

WTP operators Michael Sartin and Elbert Osborne attended a two-day continuing education course in Pikeville, Kentucky.

Staff attended training provided by Alliance Water Resources covering Flagger Safety and Protocol, Competent Person Training, and Defensive Driving Training.

Project Updates

| SOURCE | AMOUNT | PROJECTS |
|----------------------------|--------------------|-----------------|
| AML Pilot Nexus Grant-2017 | \$3,450,000 | A, B, C, D |
| COE 531 (25% Match) | \$1,869,718 | B, C |
| ARC Grant | \$1,200,000 | F |
| AML Pilot Nexus Grant-2018 | \$2,000,000 | I |
| Total Grant | \$8,519,718 | |

Regulatory

The Martin County Water Treatment Plant performs operational water quality monitoring to ensure compliance with all state and federal safe drinking water act requirements, including chlorine, fluoride, iron, pH, manganese, solids, turbidity, and bacteriological analysis.



Professional Water and Wastewater Operations

Martin County Water District

Water Plant Operation

| Water Pumped APRIL | |
|--|------------|
| Total Water Production (gallons) | 46,018,000 |
| Total Water Metered/Billed (gallons) | 16,586,000 |
| Other Water Used (gallons) | 469,000 |
| Average Daily Flow (Million Gallons per Day) | 1.533 MGD |
| Maximum Daily Flow | 1.617 MGD |
| Fluoride Used (lbs.) | 424.1 |
| Chlorine Used (lbs.) | 1,379.4 |
| Lab Tests | 3,630 |

Water Quality Analysis

| Test | Routine | Special | Repeat |
|--|-----------------------|--|----------------------|
| Bacteriological | 10 (Pass) | 6 (Pass) | 0 |
| | | Reported | Minimum Limit |
| Fluoride Plant Sample | 30 | 0.73 mg/l Average | 0.6 mg/l |
| Chlorine Distribution Sample | Total- 36 Free- 36 | Low Readings Total - 0.63 mg/L Free – 0.72 mg/L | 0.2 mg/l |

Customer Service Request and Work Orders

| | |
|-----------------------------|------|
| Meter Reads | 3287 |
| Meter Sets | 19 |
| Turn offs-Close account | 17 |
| Taps | 0 |
| Meter Changes | 14 |
| Disconnects for Non-payment | 21 |
| Boil Notices | 2 |
| Line Locates | 92 |
| Water Leaks/Breaks | 22 |
| Other/Investigates | 165 |



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 Professional Water and Wastewater Operations

Martin County Water District

Water Main Breaks & Service Lines

| Date | Location | Loss (Gallons) |
|-------------|-----------------|-----------------------|
| 4/3/23 | Davella | 305,528 |
| 4/3/23 | Cline Bottom | 236,349 |
| 4/4/23 | Cline Bottom | 118,174 |
| 4/5/23 | Turkey Creek | 10,570 |
| 4/6/23 | Spruce Pine | 19,573 |
| 4/6/23 | North Milo Rd | 36,615 |
| 4/6/23 | Pine Tree Ln | 39,147 |
| 4/10/23 | Thickety Fork | 97,101 |
| 4/10/23 | Thickety Fork | 48,551 |
| 4/10/23 | Thickety Fork | 44,949 |
| 4/15/23 | Little Lick | 305,125 |
| 4/15/23 | Little Lick | 166,120 |
| 4/19/23 | Hwy 645 | 20,342 |
| 4/19/23 | Hwy 645 | 33,945 |
| 4/19/23 | Buffalo Horn Rd | 61,025 |
| 4/21/23 | Coldwater | 102,995 |
| 4/22/23 | Collins Branch | 305,125 |
| 4/25/23 | Hwy 645 | 70,586 |



Repair Expenses Ending March 2023

| Expended | Actual YTD | Annual Budget | % Budget / Line Item |
|---------------------------------|-------------------|----------------------|-----------------------------|
| Bldg. & Grounds Maintenance | \$0 | \$5,000 | 0% |
| Vehicle Maintenance | \$7,782 | \$20,000 | 39% |
| Water Plant Maintenance | \$898 | \$10,000 | 9% |
| Distribution System Maintenance | \$53,582 | \$50,000 | 107% |
| Water Meter Maintenance | \$2,565 | \$10,000 | 26% |
| Street Maintenance | \$38 | \$3,141 | 1% |
| Totals | \$64,865 | \$98,141 | 66% |

Chemical Expenses Ending March 2023

| Expended | Actual YTD | Annual Budget | % Budget / Line Item |
|-------------------------|-------------------|----------------------|-----------------------------|
| Sodium Hydroxide | \$1,913 | \$11,000 | 17% |
| Polymer | \$781 | \$15,000 | 5% |
| Alum (DELPAC) | \$8,089 | \$30,000 | 27% |
| Chlorine | \$8,829 | \$20,000 | 44% |
| Permanganate | \$742 | \$19,000 | 4% |
| Fluoride | \$7,847 | \$7,000 | 112% |
| Chemicals Other - Water | \$1,705 | \$8,000 | 23% |
| Totals | \$29,906 | \$110,000 | 27% |

Notes:

- 1) Building & Grounds Maintenance
 - a. \$0.00

- 2) Vehicle Maintenance
 - a. Oil Changers \$96.74
 - b. Oil Changers \$102.74
 - c. Oil Changers \$83.51
 - d. Oil Changers \$33.38
 - e. Advance Auto \$415.51
 - f. Hutch Ford \$309.41
 - g. Advance Auto \$67.79
 - h. Tractor Supply \$397.14
 - i. Capital Tire \$63.97
 - j.

- 3) Water Plant Maintenance
 - a. Evans Hardware \$143.09
 - b. Evans Hardware \$25.42

- 4) Well Maintenance
 - a. \$0.00

- 5) Distribution System Maintenance
 - a. Consolidated Pipe & Supply \$1,848.96
 - b. USA Bluebook \$67.49
 - c. CITCO Water \$624.75
 - d. Consolidated Pipe & Supply \$564.98
 - e. Evans Hardware \$14.83
 - f. Service Pump & Supply \$1,033.50
 - g. USBPT \$225.28

- 6) Meter Maintenance
 - a. \$0

- 7) Sodium Bisulfite
 - a. CITCO Water \$226.94
 - b. CITCO Water \$1,352.11

- 8) Sodium Hydroxide
 - a. CITCO Water \$676.57
 - b. Brenntag Mid-South \$1,236.14

- 9) Lime/Caustic Soda
 - a. \$0.00

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Martin County Water District

10) Polymer
a. Brenntag Mid-South \$781.29

11) Alum
a. CITCO Water \$3,284.62

12) Chlorine
a. CITCO Water \$2,222.93
b. CITCO Water \$1,111.47

13) Permanganate
a. Brenntag Mid-South \$742.00

14) Fluoride
a. \$0

15) Chemicals Other – Water
a. \$0

PUBLIC SERVICE COMMISSION

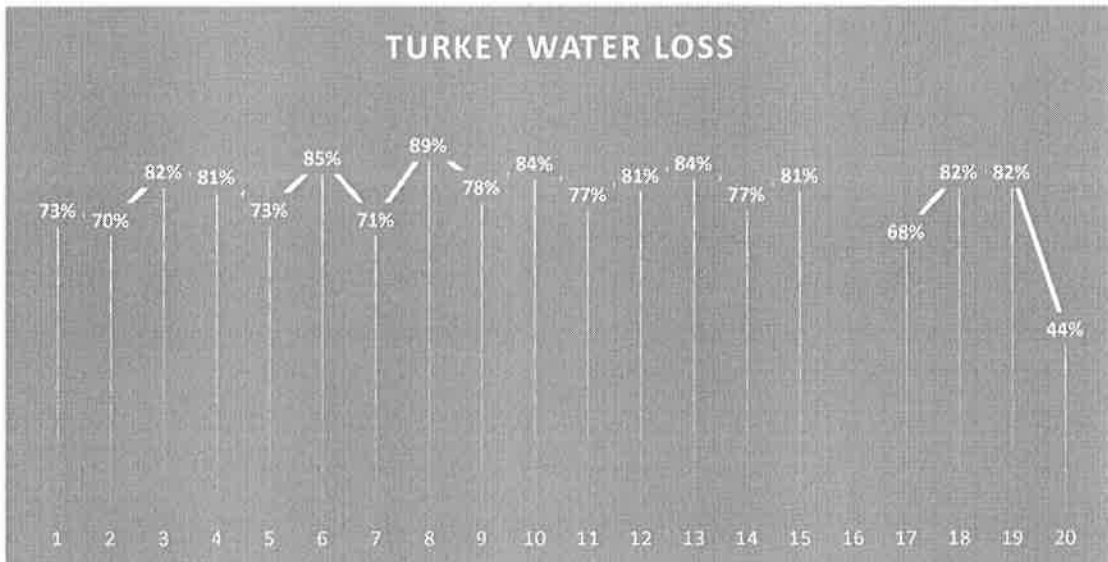
Monthly Water Loss Report

Water Utility: Martin County Water District

For the Month of: April Year: 2023

| LINE # | ITEM | GALLONS (Omit 000's) |
|--------|---|----------------------|
| 1 | WATER PRODUCED AND PURCHASED | |
| 2 | Water Produced | 46,018 |
| 3 | Water Purchased | |
| 4 | TOTAL PRODUCED AND PURCHASED | 46,018 |
| 5 | | |
| 6 | WATER SALES | |
| 7 | Residential | 10,057 |
| 8 | Commercial | 3,370 |
| 9 | Industrial | |
| 10 | Bulk Loading Stations | |
| 11 | Wholesale | |
| 12 | Public Authorities | 3,159 |
| 13 | Other Sales (explain) | |
| 14 | TOTAL WATER SALES | 16,586 |
| 15 | | |
| 16 | OTHER WATER USED | |
| 17 | Utility and/or Water Treatment Plant | 450 |
| 18 | Wastewater Plant | |
| 19 | System Flushing | |
| 20 | Fire Department | 19 |
| 21 | Other Usage (explain) | |
| 22 | TOTAL OTHER WATER USED | 469 |
| 23 | | |
| 24 | WATER LOSS | |
| 25 | Tank Overflows | |
| 26 | Line Breaks | 2,400 |
| 27 | Line Leaks | 26,563 |
| 28 | Excavation Damages | |
| 29 | Theft | |
| 30 | Other Loss | |
| 31 | TOTAL WATER LOSS | 28,963 |
| 32 | | |
| 33 | Note: Line 14 + Line 22 + Line 31 MUST Equal Line 4 | |
| 34 | | |
| 35 | WATER LOSS PERCENTAGE | |
| 36 | (Line 31 divided by Line 4) | 62.94% |

| DM4 (Turkey Creek) | MONTHLY PRODUCTION | WEEKLY PRODUCTION | DAILY PRODUCTION | CONSUMPTION | WATER LOSS |
|--------------------|--------------------|-------------------|------------------|-------------|------------|
| 2022 | | | | | |
| January | 3,181,171 | 795,293 | 113,613 | 864,540 | 73% |
| February | 3,040,382 | 760,096 | 108,585 | 897,510 | 70% |
| March | 3,481,597 | 696,319 | 99,474 | 616,740 | 82% |
| April | 3,483,669 | 870,917 | 124,417 | 665,270 | 81% |
| May | 3,055,865 | 763,966 | 109,138 | 825,370 | 73% |
| June | 5,040,627 | 1,008,125 | 144,018 | 731,380 | 85% |
| July | 3,377,925 | 844,481 | 120,640 | 991,430 | 71% |
| August | 6,093,688 | 1,523,422 | 217,632 | 691,520 | 89% |
| September | 3,307,924 | 826,981 | 118,140 | 712,590 | 78% |
| October | 3,218,456 | 804,614 | 114,945 | 508,920 | 84% |
| November | 3,226,741 | 645,348 | 92,193 | 751,590 | 77% |
| December | 3,542,191 | 885,548 | 126,507 | 665,170 | 81% |
| 2023 | | | | | |
| January | 2,950,560 | 737,640 | 105,377 | 957,530 | 68% |
| February | 3,048,035 | 762,009 | 108,858 | 547,450 | 82% |
| March | 3,400,406 | 680,081 | 97,154 | 613,010 | 82% |
| April | 1,325,893 | 331,473 | 47,353 | 743,503 | 44% |



Notes

Average customer consumption is 745,000 a month
 In order to achieve 0% water loss we should pump 745,000 a month on average
 745,000 a month would be 24,833 per day or 17gpm
 Currently we are losing 582,390 per month, 19,413 per day, or 13.5gpm
13.5gpm will still be a tough leak or leaks to find.

**MARTIN COUNTY WATER & SANITATION DISTRICT
LEAK ADJUSTMENT REQUESTS
5/19/2023**

broken line; repaired

| | | | |
|-----------------------------------|---------|---------|----------|
| BILLED GALLONS/COST | 193,860 | 2054.03 | |
| AVG GALLONS/BILL | 2,000 | 41.42 | |
| LEAK GALLONS/PURCH COS | 191,860 | 383.72 | |
| PAY (avg+leak cost) | | 425.14 | |
| WRITE OFF (billed-avg-purch cost) | | 1628.89 | |
| LATE PENALTIES TO ADJ | | 205.40 | 1,834.29 |

replaced master bath flush valve

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 18,380 | 213.25 | |
| BILLED GALLONS/COST | 4,420 | 66.81 | |
| AVG GALLONS/BILL | 3,000 | 51.91 | |
| LEAK GALLONS/PURCH COS | 15,380 | 30.76 | |
| LEAK GALLONS/PURCH COS | 1,420 | 2.84 | |
| PAY (avg+leak cost) | | 82.67 | |
| PAY (avg+leak cost) | | 54.75 | |
| WRITE OFF (billed-avg-purch cost) | | 130.58 | |
| WRITE OFF (billed-avg-purch cost) | | 12.06 | 142.64 |
| LATE PENALTIES TO ADJ | | 0.00 | 0.00 |
| SEWER | 18,380 | 275.59 | 227.78 |
| SEWER | 4,420 | 68.84 | 21.03 |
| SEWER ADJ | 3,000 | 47.81 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 391.45 |

replaced toilet seal

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 18,830 | 217.97 | |
| BILLED GALLONS/COST | 25,450 | 287.41 | |
| AVG GALLONS/BILL | 4,000 | 62.40 | |
| LEAK GALLONS/PURCH COS | 14,830 | 29.66 | |
| LEAK GALLONS/PURCH COS | 21,450 | 42.90 | |
| PAY (avg+leak cost) | | 92.06 | |
| PAY (avg+leak cost) | | 105.30 | |
| WRITE OFF (billed-avg-purch cost) | | 125.91 | |
| WRITE OFF (billed-avg-purch cost) | | 182.11 | 308.02 |
| LATE PENALTIES TO ADJ | | 0.00 | 0.00 |
| SEWER | 18,380 | 282.25 | 219.63 |
| SEWER | 25,450 | 380.29 | 317.67 |
| SEWER ADJ | 4,000 | 62.62 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 845.32 |

replaced water hose faucet

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 17,660 | 205.69 | |
| BILLED GALLONS/COST | 5,820 | 81.49 | |
| AVG GALLONS/BILL | 4,000 | 62.40 | |
| LEAK GALLONS/PURCH COS | 13,660 | 27.32 | |
| LEAK GALLONS/PURCH COS | 1,820 | 3.64 | |
| PAY (avg+leak cost) | | 89.72 | |
| PAY (avg+leak cost) | | 66.04 | |
| WRITE OFF (billed-avg-purch cost) | | 115.97 | |
| WRITE OFF (billed-avg-purch cost) | | 15.45 | 131.42 |
| LATE PENALTIES TO ADJ | | 0.00 | 0.00 |
| SEWER | 17,660 | 264.92 | 202.30 |
| SEWER | 5,820 | 89.57 | 26.95 |
| SEWER ADJ | 4,000 | 62.62 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 360.67 |

replaced fitting at meter

| | | | |
|-----------------------------------|--------|--------|-------|
| BILLED GALLONS/COST | 12,890 | 155.66 | |
| AVG GALLONS/BILL | 5,000 | 72.89 | |
| LEAK GALLONS/PURCH COS | 7,890 | 15.78 | |
| PAY (avg+leak cost) | | 88.67 | |
| WRITE OFF (billed-avg-purch cost) | | 66.99 | |
| LATE PENALTIES TO ADJ | | 0.00 | 66.99 |

pool fill up; sewer only

| | | | |
|----------------------|--------|--------|--------|
| SEWER | 17,420 | 261.37 | 169.13 |
| SEWER | 7,730 | 117.86 | 25.62 |
| SEWER ADJ | 6,000 | 92.24 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 194.75 |

replaced hot water pop off valve

| | | | |
|-----------------------------------|--------|--------|-------|
| BILLED GALLONS/COST | 12,100 | 147.37 | |
| AVG GALLONS/BILL | 2,000 | 41.42 | |
| LEAK GALLONS/PURCH COS | 10,100 | 20.20 | |
| PAY (avg+leak cost) | | 61.62 | |
| WRITE OFF (billed-avg-purch cost) | | 85.75 | |
| LATE PENALTIES TO ADJ | | 0.00 | 85.75 |

repaired leak under bathroom floor

| | | | |
|-----------------------------------|-------|-------|-------|
| BILLED GALLONS/COST | 6,190 | 85.37 | |
| AVG GALLONS/BILL | 2,000 | 41.42 | |
| LEAK GALLONS/PURCH COS | 4,190 | 8.38 | |
| PAY (avg+leak cost) | | 49.80 | |
| WRITE OFF (billed-avg-purch cost) | | 35.57 | 35.57 |
| LATE PENALTIES TO ADJ | | 0.00 | |

| | | | |
|----------------------|--------|--------|--------|
| SEWER | 13,110 | 197.54 | 164.54 |
| SEWER ADJ | 2,000 | 33.00 | |
| SWR PENALTIES TO ADJ | | 0.00 | 200.11 |

repaired commode leak

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 16,360 | 192.06 | |
| BILLED GALLONS/COST | 6,840 | 95.97 | |
| AVG GALLONS/BILL | 5,000 | 72.89 | |
| LEAK GALLONS/PURCH COS | 11,360 | 22.72 | |
| LEAK GALLONS/PURCH COS | 1,840 | 3.68 | |
| PAY (avg+leak cost) | | 95.61 | |
| PAY (avg+leak cost) | | 76.57 | |
| WRITE OFF (billed-avg-purch cost) | | 96.45 | |
| WRITE OFF (billed-avg-purch cost) | | 19.40 | 115.85 |
| LATE PENALTIES TO ADJ | | 19.21 | 19.21 |
| SEWER | 16,360 | 245.67 | 168.24 |
| SEWER | 6,840 | 110.01 | 32.58 |
| SEWER ADJ | 5,000 | 77.43 | |
| SWR PENALTIES TO ADJ | | 24.57 | 24.57 |
| | | | 335.88 |

replaced water hose

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 13,720 | 164.36 | |
| BILLED GALLONS/COST | 14,950 | 177.27 | |
| AVG GALLONS/BILL | 7,000 | 93.87 | |
| LEAK GALLONS/PURCH COS | 6,720 | 13.44 | |
| LEAK GALLONS/PURCH COS | 7,950 | 15.90 | |
| PAY (avg+leak cost) | | 107.31 | |
| WRITE OFF (billed-avg-purch cost) | | 218.42 | |
| LATE PENALTIES TO ADJ | | 34.17 | 252.59 |

replaced toilet seal

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 13,730 | 164.47 | |
| BILLED GALLONS/COST | 8,140 | 105.83 | |
| AVG GALLONS/BILL | 4,000 | 62.40 | |
| LEAK GALLONS/PURCH COS | 9,730 | 19.46 | |
| LEAK GALLONS/PURCH COS | 4,140 | 8.28 | |
| PAY (avg+leak cost) | | 81.86 | |
| WRITE OFF (billed-avg-purch cost) | | 180.16 | |
| LATE PENALTIES TO ADJ | | 10.58 | 190.74 |

repaired leak

| | | | |
|------------------------|-------|-------|--|
| BILLED GALLONS/COST | 7,470 | 98.80 | |
| BILLED GALLONS/COST | 6,320 | 86.74 | |
| AVG GALLONS/BILL | 3,000 | 51.91 | |
| LEAK GALLONS/PURCH COS | 4,470 | 8.94 | |
| LEAK GALLONS/PURCH COS | 3,320 | 6.64 | |

| | | | |
|-----------------------------------|-------|--------|--------|
| PAY (avg+leak cost) | | 60.85 | |
| WRITE OFF (billed-avg-purch cost) | | 118.05 | |
| LATE PENALTIES TO ADJ | | 10.58 | 128.63 |
| SEWER | 7,470 | 114.01 | 66.20 |
| SEWER | 6,320 | 96.98 | 49.17 |
| SEWER ADJ | 3,000 | 47.81 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 244.00 |

repaired leak under home

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 21,870 | 249.86 | |
| AVG GALLONS/BILL | 6,000 | 83.38 | |
| LEAK GALLONS/PURCH COS | 15,870 | 31.74 | |
| PAY (avg+leak cost) | | 115.12 | |
| WRITE OFF (billed-avg-purch cost) | | 134.74 | 159.73 |
| LATE PENALTIES TO ADJ | | 24.99 | |
| SEWER | 21,870 | 327.27 | 235.03 |
| SEWER ADJ | 6,000 | 92.24 | 394.76 |
| SWR PENALTIES TO ADJ | | 32.73 | |

repaired leak behind shower

| | | | |
|-----------------------------------|--------|--------|-------|
| BILLED GALLONS/COST | 12,000 | 146.32 | |
| AVG GALLONS/BILL | 2,000 | 41.42 | |
| LEAK GALLONS/PURCH COS | 10,000 | 20.00 | |
| PAY (avg+leak cost) | | 61.42 | |
| WRITE OFF (billed-avg-purch cost) | | 84.90 | |
| LATE PENALTIES TO ADJ | | 14.63 | 99.53 |

repaired leak at meter

| | | | |
|-----------------------------------|--------|--------|--------|
| BILLED GALLONS/COST | 19,120 | 221.01 | |
| AVG GALLONS/BILL | 5,000 | 72.89 | |
| LEAK GALLONS/PURCH COS | 14,120 | 28.24 | |
| PAY (avg+leak cost) | | 101.13 | |
| WRITE OFF (billed-avg-purch cost) | | 119.88 | |
| LATE PENALTIES TO ADJ | | 0.00 | 119.88 |

pool fill up; sewer only

| | | | |
|----------------------|--------|--------|--------|
| SEWER | 19,720 | 227.30 | 149.87 |
| SEWER | 7,070 | 108.09 | 30.66 |
| SEWER ADJ | 5,000 | 77.43 | |
| SWR PENALTIES TO ADJ | | 0.00 | 0.00 |
| | | | 180.53 |



MEETING AGENDA
PROGRESS MTG #45
MARTIN COUNTY WATER DISTRICT
MARTIN COUNTY, KENTUCKY
May 9, 2023

LOCATION: Via Teams
TIME: 3:30 PM
Present: Announcement of those Present

SUMMARY OF PROJECT FUNDING:

| <u>Source</u> | <u>Amount</u> | <u>Associated Project(s)</u> |
|---------------------------------|---------------------|------------------------------|
| AMLER (2017) | \$3,450,000 | A,B,C |
| COE 531 Partnership (25% Match) | \$1,869,718 | B,C |
| ARC Grant | \$1,200,000 | D |
| AMLER (2018) | \$2,000,000 | E |
| FEMA/STATE | \$1,201,000 | K |
| COE 531 Partnership | <u>\$1,500,000</u> | B |
| TOTAL GRANT | \$11,220,718 | |

**A. CONTRACT 113-19-02
 RWI&WTP IMPROVEMENTS**

1. The WTP and RWI sites were surveyed.
2. Basins were documented for condition assessment.
3. The Preliminary Engineering Report for the project was completed and distributed.
4. The Phase I Environmental Site Assessment required by the Corps of Engineers was completed and submitted.
5. Vendor proposals for replacement equipment were requested and reviewed.
6. Plans and specifications were developed.
7. Project mapping for NEPA purposes was submitted to AML on February 6, 2020.
8. Project description and Opinion of Probable Construction Costs were submitted to AML on February 17, 2020.
9. Project was submitted for DOW review on March 13, 2020. DOW Construction Permit issued on June 3, 2020.
10. Project was submitted for a COE 4345 Permit Application review on March 20, 2020. Permit was issued on June 8, 2020.
11. The AML Authorization to Proceed was granted on July 31, 2020.

12. The Project was submitted to DOW for a Permit to Construct Along or Across a Stream on April 14, 2020. The DOW requested a public notice be run in the Mountain Citizen newspaper. The notice ran on June 24th, July 1st and July 8th. The period for public comments or objections related to the project ran through July 29th. The permit was issued on August 13, 2020.
13. Project was submitted to Corps of Engineers for Plan and Specification Review March 20, 2020. Corps provided review comments on April 28, 2020. Final plans and specifications including all electrical and structural components of the project were forwarded to the Corps of Engineers for final review during the week of July 13th. The Corps of Engineers completed its review of the final plans / specifications including the opinion of probable cost and certified the package.
14. The Corps of Engineers advertised the Draft Environmental Assessment (DEA) and Finding of No Significant Impact (FONSI) for the project on August 4, 2020 for the 30-day public comment period. KY SHPO requested further consultation. The FONSI was issued October 29, 2020.
15. Project was sent out for bidding on November 11, 2020.
16. A pre-bid meeting for interested contractors was held @ 1:00 p.m. on December 1, 2020.
17. Bids for the project were originally received on December 15, 2020 at 1:00 p.m. Only one bid was received (submitted by Pace Contracting). The project bid was in excess of the available funds.
18. The project was rebid.
19. Bids for the project rebid were opened on April 13th at 1:00 p.m. at the office of the Big Sandy Area Development District. There were four plan holders for the rebid. Only one bid was received (submitted by Pace Contracting).
20. The bid submitted by Pace was \$3,858,387.00.
21. The base bid of \$3,858,387.00 submitted compares to a base bid of \$3,396,220.00 submitted by Pace in December 2020. The difference was \$462,167.00 between the bids.
22. The combined base bids for the RWI/WTP Project and Water Line Replacement in the Beauty/Lovely Project exceeded the funds available for construction activities. Given the grave condition of the Raw Water Intake and Water Treatment Plant, the MCWD took the following actions:
 - A. Defer the construction of the Water Line Replacement in the Beauty / Lovely area until a later date and use the funds budgeted for this project for construction of the RWI/WTP Project.
 - B. Continued submitting funding requests in an effort to obtain funding to construct the Water Line Replacement Project in the Beauty / Lovely area as soon as possible.

- C. Awarded the Raw Water Intake / Water Treatment Plant Project to Pace Contracting based on the base bid received with the deletions outlined in Table 1.

TABLE 1

| DESCRIPTION | PRIORITY TO ADD BACK | AMOUNT |
|--|----------------------|------------------------|
| Base Bid submitted by Pace Contracting, Inc. | N/A | \$3,858,387.00 |
| Delete - Backup Generator | 1 | \$ (175,000.00) |
| Delete - Roof Replacement over Garage | 2 | \$ (31,818.00) |
| Delete - 60' & 20' Sections of 10-Inch Pipe | 3 | \$ (11,143.00) |
| Delete - Cash Allowance for Second Trailer | 4 | \$ (20,000.00) |
| Delete - Temporary Piping | N/A | \$ (10,000.00) |
| Change - Augur Cast Piles to Micro Piles | N/A | \$ (17,000.00) |
| Change - Buried Conduit from Rigid to PVC | N/A | \$ (20,000.00) |
| Reduce - Pace Markup | N/A | \$ (50,000.00) |
| Reduce - Various Unit Price Items | N/A | \$ (50,000.00) |
| TOTAL AWARD AMOUNT | | \$ 3,473,426.00 |

23. A letter awarding the project to Pace under the conditions outlined in Table 1 and subject to concurrence of all the state and federal agencies was sent to Pace on July 9, 2021.
24. Authorization to Proceed was received from AML on September 1, 2021. The USACE had previously granted approval.
25. Executed contract books and bonds were received from Pace on September 8, 2021.
26. A preconstruction meeting was held on September 22, 2021 at the offices of the Big Sandy Area Development District.
27. Contract books were signed and dated by the Big Sandy Area Development District at the preconstruction meeting.
28. A Notice to Proceed (NTP) was issued at the preconstruction meeting. The contract required the contractor be given ten days from the issuance of the NTP before the contract time started.
29. The Contract time began on October 4, 2021.
30. The contractor has performed the following major items of work since the last meeting:
 - Completed permanent power switch-over at RWI station.
 - Completed new chemical injection assembly.
 - Installed remaining hardware and handrails at RWI.
31. Major equipment deliveries we are awaiting:
 - Generator Transfer Switch is arriving tomorrow (May 9th).
32. Next steps for Generator Hookup
 - AEP will shut off power to plant (will be coordinated with the district).

- It will take 3-4 hours to hook up the temporary generator and restore power to the plant.
 - Setting the ATS and hooking up the permanent back-up generator will require 2 days (plant will run off temporary generator during this time).
 - 3-4 hours will then be needed to return to normal power configuration.
 - AEP will then turn permanent power back on with the permanent backup generator functional.
33. Remaining work:
- Grout backwash gullet of Unit 1.
 - Startup Unit 1.
 - Begin Unit 3 repair once Unit 1 is operational.

**B. CONTRACT 113-19-03
LINE IMPROVEMENTS**

1. Bell was able to locate several sets of As-Built Drawings of the water distribution system. Bell scanned copies of all plan sets and returned to MCWD with digital copies of plan sets for MCWD future use.
2. Bell and MCWD personnel have been in the field multiple times locating existing lines, surveying existing meters, valves and fire hydrants and determining routing of new water lines.
3. Location of features affecting alignment of the waterline have been completed.
4. The Phase I Environmental Site Assessment required by the Corps of Engineers was completed and submitted.
5. Plans and specifications have been developed.
6. Project mapping for NEPA purposes was submitted to AML on February 10, 2020.
7. Project description and Opinion of Probable Construction Costs were submitted to AML on February 17, 2020.
8. Project was submitted for DOW review on March 13, 2020. DOW Construction Permit was issued on April 27, 2020.
9. Project submitted to Corps of Engineers Plan and Specification Review March 20, 2020. Corps provided review comments on April 28, 2020. Bell responded to comments and resubmitted plans/specifications on May 7, 2020. The Corps of Engineers completed its review of the final plans / specifications including the opinion of probable cost and certified the package.
10. Project was submitted to KYTC on April 6, 2020 for review. KYTC Encroachment Permit was issued on May 13, 2020.
11. Submitted to DOW for Permit to Construct Along or Across a Stream April 14, 2020. The permit was issued on June 17, 2020.

12. The AML Authorization to Proceed was granted on July 31, 2020.
13. The Corps of Engineers advertised the Draft Environmental Assessment (DEA) and Finding of No Significant Impact (FONSI) for the project on August 4, 2020 for the 30-day public comment period. KY SHPO requested further consultation. The FONSI was issued October 29, 2020.
14. Project was sent out for bidding on November 11, 2020.
15. A pre-bid meeting for interested contractors was held @ 11:00 a.m. on December 1, 2020.
16. Bids for the project were originally received on December 15, 2020 at 11:00 a.m. Five bids were received.
17. The project was rebid.
18. Bids for the project rebid were opened on March 30 2021 at 11:00 a.m. at the office of the Big Sandy Area Development District. There were six plan holders for the rebid. Three bids were received (BP Pipeline, Buchanan Contracting, and Conkurs, LLC).
19. The low bid was submitted by Conhurst with a base bid of \$910,810.00 and a total bid with alternate of \$1,744,066.00.
20. \$1.5M in additional project funding through the Corps of Engineers is now available. Changes have been made to the plans. Review plans with MCWD, coordinate bid date with funding agency and advertise the project for bids. Anticipate rebidding the project within the next several weeks.

C. WATER SYSTEM CAPITAL IMPROVEMENT PLAN / HYDRAULIC MODELING

1. Document is required by PSC
2. Bell has completed field review of RWI, WTP, Storage Tanks, Pumping Stations and PRV's.
3. Bell & UK met in Martin County on June 21, 2019 to coordinate collection of field data the week of July 8, 2019. This effort was for calibration of the Hydraulic Model.
4. UK professors and 3 students traveled to Martin County on July 8, 2019 to begin effort of collecting field data (pressures and flows) at key points throughout the water distribution system. Bell had a team of four individuals that were to join the UK team on July 10, 2019; however, MCWD had some major line breaks on July 9, 2019 and were unable to recover water supply during the week to allow flowing water from hydrants.
5. The effort to collect flow data was rescheduled for August 6 and 7, 2019, however, on August 5, 2019 MCWD has a failure of a PRV which would not allow the flowing of the hydrants.
6. The collection of the field data was rescheduled and occurred on August 14 and 15, 2019.

7. Field data has been reviewed. UK returned to the field in an effort to repeat two tests for the Hazen Williams coefficient that appeared suspect.
8. Money is in place to pay for the Hydraulic Model through AML 2017 Grant. OSM refused to allow for payment of the CIP through the 2018 Grant. The funds associated with that have been realigned toward additional waterline replacement.
9. UK delivered testing forms to Bell.
10. PRVs, tanks, lines, etc. have been input into the model.
11. Alliance Resources provided usage data and address information for each customer to effectively distribute demand throughout the system.
12. Model was calibrated using field collected data.
13. Bell has been working with UK to coordinate modeling efforts.
14. A Zoom meeting was held between the Kentucky Division of Water, University of Kentucky and Bell on July 1, 2020 to discuss the modeling. A second Zoom meeting was held on July 7, 2020 between UK and Bell to further discuss items that are needed.
15. Data has been shared between UK and Bell.
16. A trip to obtain additional field data was made in mid-July 2020.
17. The hydraulic model is operational and has been checked against previously recorded field observations. The results being output by the model are consistent with the observations obtained in the field.
18. Bell and UK are sharing model information.

**D. CONTRACT 113-19-04
ARC WATERLINE REPLACEMENT PROJECT**

1. Bell received the signed contract on August 2, 2019.
2. Bell and MCWD personnel have been in the field multiple times locating existing lines, surveying existing meters, valves and fire hydrants and determining routing of new water lines.
3. Location of all features affecting alignment of the waterline has been completed including gas lines.
4. Plans and specifications have been developed.
5. Project was submitted for DOW review on March 27, 2020. DOW Construction Permit issued April 27, 2020.
6. Project was submitted to KYTC on April 6, 2020 for review. KYTC Encroachment Permit was issued April 24, 2020.
7. Bids for the project were opened on May 29, 2020. Three bids were received for the project. The low bid in the amount of \$390,725.00 was submitted by Boca Enterprises, Inc.
8. A conversation was held with DLG representative on June 8, 2020 concerning using the remaining funds to continue laying additional mainline & service

lines, along with, installing new meters in the Lovely area. ARC approved allowing the funds to be used to replace additional mainline, service line and water meters.

9. Issues were resolved with the Contractor concerning contract time associated with the additional construction activities.
10. The Contract has been executed and the Contractor has submitted the required performance and payment bonds.
11. A preconstruction meeting was held on September 9, 2020 at the offices of Alliance Water Resources.
12. Project construction was completed.
13. Record Drawings have been forwarded to the MCWD. Bell received the final signed Contractor pay request, the release of liens and claims and consent of surety. This information was forwarded on to the District and Big Sandy Area Development District for execution and processing.
14. The project is closed. We are maintaining it on the project list through the warranty period.
15. There is \$85,832 in unspent funds from this project. The district is looking to add telemetry to the KY 292 Pumping Station and KY 292 South Tank with these funds. This will allow the district to monitor tank levels and water usage remotely and respond in a timely manner to breaks in the line. Bell is working on project design now.
16. The ADD has worked with DLG and determined this project will have to be advertised for bidding. Bid documents for the project are essentially complete. Advertise project for bids upon funding agency concurrence.

E. USP BIG SANDY, EASTERN KENTUCKY BUSINESS PARK & BIG SANDY AIRPORT WATER PROJECT

1. Project budget was revised and sent to AML on September 19, 2019.
2. The Memorandum of Agreement between AML and BSADD was signed by BSADD on September 25th. The MOA was signed by AML on October 1, 2019.
3. A contract for engineering services has been executed by the Big Sandy Area Development District.
4. Bell and MCWD personnel went to the field to review potential tank and pump station sites.
5. The Preliminary Engineering Report for the project is complete and has been distributed.
6. Plans have been prepared for the 250,000-gallon water storage tank.
7. Bell, Alliance and MCWD coordinated with the mineral lease holder and the surface owner concerning location of the proposed tank and pump station.

BSADD, Bell and Alliance representatives met with the property owner on January 30, 2020.

8. On March 3rd, the property owner advised most of the property is permitted with only a phase one bond release.
9. Bell and Alliance met on-site with the property owner on May 5, 2020 and permission to move forward was granted.
10. The site was surveyed on May 27, 2020 and topographic mapping was developed.
11. At the request of the MCWD, work on this project was previously paused.
12. A request was submitted to AML asking that the project scope be revised. Components that would remain in the project include:

- Upgrade of the existing Davella Pumping Station
- Construction of a Master Meter
- Construction of a Booster Chlorination System

Proposed revised scope components:

- Relocate the proposed Pump Station so that it replaces the existing Otto Brown Station. This station is beyond its useful life and subject to confined space constraints.
- Replace existing waterline in the vicinity of the Otto Brown Station that is subject to leaks.
- Provide Modifications to the Middle Fork Tank rather than construct a new tank.

13. The request was approved by OSM.
14. Project design is continuing. Bell has made multiple trips to the field and we to perform surveying and line layout. We have also attached pressure recorders to four different hydrants to monitor pressure in the area for purposes of pump station design. Replacement water lines have been designed. Project will be forwarded to AML for NEPA review.

F. CONTRACT 113-20-02

WATER LINE RELOCATION HUNTER'S LANE

1. Met on-site with Bizzack Construction, Alliance Water Resources and representatives of other utilities on May 28, 2020.
2. A scope of work for the project is being developed.

G. KY 908 GUARDRAIL PROJECT

1. Met on-site with KYTC multiple times.

2. KYTC has advised additional funds have been requested to perform this work. They will release the project for design when those funds are approved.

H. SESTER BRANCH UTILITY RELOCATION

1. Representatives of KYTC, Alliance, Bell Engineering and the gas company met onsite to discuss the project on January 18th. Bell has forwarded the draft plans to both KYTC and the MCWD for review. Anticipate bidding & constructing the project this summer.
2. Both Engineering and construction related costs will be paid by KYTC.

I. REPLACE BRIDGE ON KY 40 OVER BUCK CREEK

1. Met with KYTC to review proposed work in April.
2. Bell will walk the project with Alliance to ensure concerns with the existing lines are addressed during the relocation. Project plans and engineering contract will then be forwarded to KYTC.
3. Both Engineering and construction related costs will be paid by KYTC.

J. HIGH SCHOOL PUMP STATION CHECK VALVE

1. Met With Alliance to discuss issues.
2. Preparing plans to add a valve vault and check value to give operations personnel more control over the direction of flow of water from the tank.
3. Project to move forward when funded.

K. FEMA BACKUP GENERATOR PROJECT

1. Seeking FEMA funding for a project that includes the following:
 - One Generator to operate 750-HP VFD Controlled RWI Pump
 - Two Generators to operate 60-HP VFD Controlled Pumping Stations
2. The district received a letter in April from FEMA advising of award in the amount of \$1,140,300. Bell has been working with the ADD to forward additional information and is preparing the contract for engineering services. Project design may begin when authorized.

L. SPICY MOUNTAIN WATER EXTENSION

1. An opinion of probable project cost for delivery of water from the Johnosn County side of the Mountain has been prepared.

M. TURKEY TANK REHABILITATION

1. Bell has finalized and forwarded an opinion of probable cost to rehabilitate the Turkey Tank. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

N. INEZ UTILITY REPLACEMENT

1. Met to discuss options for replacing the utilities in Inez. Since the streets will be torn up to replace these utilities, we are attempting to incorporate some economic development components as the streets are built back. These could include wayfinding signs, trails, parks, pavilions and streetscape improvements. Bell has finalized a contract for preliminary work that will and forwarded it to the Martin County Water District for consideration. The district has forwarded it to the City of Inez and Martin County Fiscal Court for consideration.

O. 40E WATER IMPROVEMENT PROJECT

1. Project would remove existing water connections from a waterline that is leaking and move them to a 10" parallel line. The leaking line would then be removed from service. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

P. COLDWATER WATER IMPROVEMENT PROJECT

1. Project would replace the existing waterline, service line and meters in the Coldwater area. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

Q. OLD ROUTE 3 WATER IMPROVEMENT PROJECT

1. Project would replace the existing waterline, service line and meters in the Old Route 3 area of the county. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

- R. WATER IMPROVEMENT PROJECT BETWEEN WTP AND TURKEY TANK**
1. Project would replace the existing waterline, service line and meters between the WTP and the Turkey Tank. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.
- S. COUNTYWIDE METER REPLACEMENT PROJECT**
1. Project would replace all meters (residential and commercial) in the Martin County Water District system. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

MARTIN COUNTY WATER DISTRICT 5 YEAR CAPITAL ITEMS

| CAPITAL PROJECTS IN GRANT PROCESS | PRIORITY | GRANT PORTAL YEAR | CONSTRUCTION YEAR | COST | FUNDING SOURCE | COMMENTS |
|---|----------|-------------------------|-------------------|--------------|-----------------|---|
| 40E SERVICE LINE REPLACEMENT AND 6" ABANDONMENT | 1 | 2023 | | \$ 760,000 | IN GRANT PORTAL | MOVING 50+ CUSTOMERS TO NEWER 10" LINE AND ELIMINATING OLD 6" LINE THAT IS BELIEVED TO BE LEAKING |
| TURKEY WATER LINE REPLACEMENT | 2 | 2023 | | \$ 6,822,000 | IN GRANT PORTAL | REPLACING LINE FROM THE WATER PLANT TO THE TURKEY TANK. THIS LINE HAS HAD MULTIPLE LEAKS OVER THE YEARS AND IS A CRITICAL POINT FOR A LARGE SERVICE AREA IN THE SYSTEM. |
| COLDWATER LINE REPLACEMENT | 1 | 2023 | | \$ 8,419,000 | IN GRANT PORTAL | UP TO 4 WATER LINES IN THE SAME AREA WITH MANY WEAK POINTS |
| WATER PLANT CLARIFIER III REHAB | 1 | 2020 | 2023 | \$ 250,000 | AML | THIS PROJECT WILL BE COMPLETED AS PART OF A LARGER PROJECT CURRENTLY UNDERWAY. RAKE DRIVE BEARING IS OUT. |
| TURKEY STORAGE TANK REHAB | 1 | 2023 | | \$ - | IN GRANT PORTAL | TANK IS ONE OF THE OLDEST AND IN THE WORST CONDITION IN OUR SYSTEM |
| Project 113-19-03 Replace Existing Mainline, Water Meters, Service Line, Valves & | 3 | 2019 | | \$ 1,260,658 | AML | EXISTING PROJECT BIDDING SOON |
| Projects 113-19-05 & 113-19-06 Rehabilitation of Otto Brown Booster Station, Line replacement to Middletork Tank, Upgrade of Davella Booster Station | 1 | 2019 Scope changed 2022 | | \$ 750,000 | | REPLACING FAILING UNDERGROUND BOOSTER STATION IN THE SYSTEM TO ASSIST IN PROVIDING WATER TO THE AIRPORT, PRISON AND DAVELLA REGION. |
| FEMA BACKUP GENERATOR PROJECT | 1 | 2022 | | \$ 1,320,000 | FEMA | WILL BE GENERATOR AT 40E AND 40W BOOSTER STATIONS AND THE RAW WATER INTAKE |
| METER REPLACEMENT PROJECT | 1 | 2023 | | \$ 2,000,000 | IN GRANT PORTAL | REDUCE WATER LOSS, EFFICIENCY IN OPERATIONS AND ELIMINATION OF HUMAN ERROR IN METER READING |
| HIGH SCHOOL PUMP STATION CHECK VALVE | 3 | 2022 | | \$ 70,000.00 | | ENABLE THE DISTRICT TO USE THE HIGH SCHOOL TANK TO PROVIDE WATER TO OTHER AREAS OF THE SYSTEM BESIDES THE HIGHSCHOOL |

| MARTIN COUNTY WATER DISTRICT CAPITAL ITEMS | | | | |
|--|----------|------|---------------|---|
| PROJECTS NOT IN GRANT PROCESS | PRIORITY | YEAR | COST | COMMENTS |
| INEZ WATER LINE AND VALVE REPLACEMENT | 1 | | | OLDEST SECTION OF THE SYSTEM CONSISTING OF AC LINE AND OLD SERVICES, 90% WATER LOSS |
| DISTRIBUTION BUILDING AND PIPE YARD | 3 | | | CURRENT STAFF USE THE WATER PLANT PARKING LOT FOR STORAGE OF VEHICLES AND PARTS, THE CURRENT EQUIPMENT AND VEHICLES ARE LEFT IN THE ELEMENTS WHICH CAUSE DAMAGE OVER TIME |
| 292 BOOSTER STATION AND WATER LINE REPLACEMENT | 1 | | | BOOSTER STATION HAS PASSED ITS USEFUL LIFE AND NEEDS COMPLETE REHABILITATION |
| BIG ELK WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION | 2 | | | UNDER GROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS TO BE ABOVE GROUND WITH REDUNDANCY |
| BUFFALO HORN WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION | 2 | | | UNDERGROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS TO BE ABOVE GROUND WITH REDUNDANCY |
| 645 WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION | 3 | | | UNDERGROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS REHABILITATION, CURRENTLY A HIGH WATER LOSS |
| WOLF CREEK/PIGEON ROOST WATER LINE REPLACEMENT | 2 | | | HIGH AMOUNT OF BREAKS IN THIS AREA CAUSE REPEATED OUTAGES AND LINES ARE BURIED DEEP |
| MEATHOUSE WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION | 3 | | | MEATHOUSE HAS NO REDUNDANCY AND NO SCADA TELEMETRY, THIS STATION NEEDS UPGRADED WITH REDUNDANT PUMPS AND TELEMETRY TO TOGGLE PUMPS ON AND OFF FROM THE PLANT. |
| HODE WATER LINE REPLACEMENT | 2 | | | MANY BREAKS IN THE WATER |
| CASSELL BRANCH WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION | 3 | | | BOOSTER STATION HAS ONE PUMP AND NEEDS TO HAVE REDUNDANCY, |
| CREEK CROSSING REPLACEMENT | 2 | | | MANY POINT TO WHICH THE WATER PLANT |
| VALVE INSERTION | 2 | | | MANY VALVES IN THE SYSTEM ARE INOPERABLE AND IN NEED OF REPLACEMENT, ADDITIONALLY, VAVLES ARE NEEDED FOR CONTINUED LEAK DETECTION |
| WATER PLANT HIGH SERVICE PUMP REPLACEMENT | 1 | | \$ 250,000.00 | BOTH PUMPS HAVE BEEN IN SERVICE FOR A LONG TIME AND ARE IN MUCH NEED OF REPLACEMENT |
| PASSENGER TRUCK 4X4 | 1 | 2024 | \$ 60,000.00 | CURRENT VEHICLES ARE INOPERABLE |
| 1 ton 4x4 tool truck with Hoist, Generator, and Compressor | 1 | 2023 | \$ 120,000.00 | CURRENT TRUCK IS OWNED BY SANITATION DISTRICT |
| ROAD BORE MACHINE | 1 | | \$ 15,000.00 | WOULD ALLOW THE DISTRICT TO DO ITS OWN TAPS AND BORES FOR WATER LINE INSTEAD OF CONTRACTING IT OUT. |
| ONLINE TURBIDIMETERS AND CONTROLLER | 2 | | \$ 22,626.00 | CURRENT TURBIDIMETERS ARE OBSOLETE |
| BIG LICK WATER LINE REPLACEMENT AND BOOSTER STATION REHAB | 3 | | | BOOSTER STATION HAS NO REDUNDANCY AND NEEDS A NEW BUILDING, THIS BOOSTER STATION ALSO HAS NO TELEMETRY AND CANNOT BE MONITORED FROM THE PLANT |
| PETER CAVE WATER LINE REPLACEMENT AND BOOSTER STATION REHAB | 3 | | | BOOSTER STATION HAS NO REDUNDANCY AND SEVERAL LEAKS HAVE CAUSED MANY CUSTOMER OUTAGES, BOOSTER NEEDS REHABILITATED AND LINES NEED REPLACED, |
| KERMIT WATER LINE CONNECTION | 3 | | | INTERCONNECT BETWEEN KERMIT AND MARTIN COUNTY IS BROKEN SOMEWHERE IN THE MIDDLE OF THE TUG RIVER, THIS INTERCONNECT NEEDS REPAIRED OR A NEW LINE NEEDS CONNECTED |

MARTIN COUNTY WATER DISTRICT ANNUAL CAPITAL ITEMS

| RECURRING PROJECTS | YEAR | COST | COMMENTS |
|---------------------------|-------------|--------------|--|
| 10% METER REPLACEMENT | ANNUALLY | \$ 80,000.00 | AS REQUIRED BY PSC |
| TANK INSPECTIONS/CLEANING | ANNUALLY | \$ 7,000.00 | 1 TANK PER YEAR SHOULD HAVE THEM INSPECTED EVERY 10 YEARS |
| VEHICLE REPLACEMENT | ANNUALLY | \$50,000.00 | ROUTINE FLEET MAINTENANCE AND CHANGE OUT NOT EQUIPMENT EXPENSE |

May 23rd, 2023

TO: Martin County Water District
Board of Directors

INFORMATION & DECISION

FROM: Staff

RE: 40 East Booster Station VFD

The 40 East booster pump station is currently running with one functioning VFD due to an existing VFD having major internal issues. VFDs in this station have been replaced multiple times and a Surge Protection Device (SPD) is being quoted for installation as well to mitigate power-surge issues. After installation of the SPD, a new VFD will be required to run the second pump in the station.

Requests for quotes were sent to and returned by the following:

| 40 East VFD Replacement | | | |
|-------------------------|------------------------|----------|----------------------|
| Vendor | Model/HP | Cost | Anticipated Delivery |
| Service Pump & Supply | Toshiba VFAS3/60HP | \$5,362 | 6-8 weeks |
| DEQ Controls | WEG 88/60HP | \$3,700 | N/A |
| CITCO | Allen-Bradley 22C/60HP | \$12,195 | N/A |
| USBPT | ACS 580/60HP | \$7,199 | 6-8 weeks |

Request for quote from Layne Supply was not returned.

If the board agrees, Staff recommends purchasing the WEG drive through DEQ Controls considering the cost savings associated with the purchase.