

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
MAY 13, 2024
10:15 A.M.
AGENDA

**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION FOR PUBLIC**

**Call in Number: 1-681-999-0141
Passcode: 408305**

**Teams Meeting ID: 262 828 758 218
Passcode: GuHCi4**

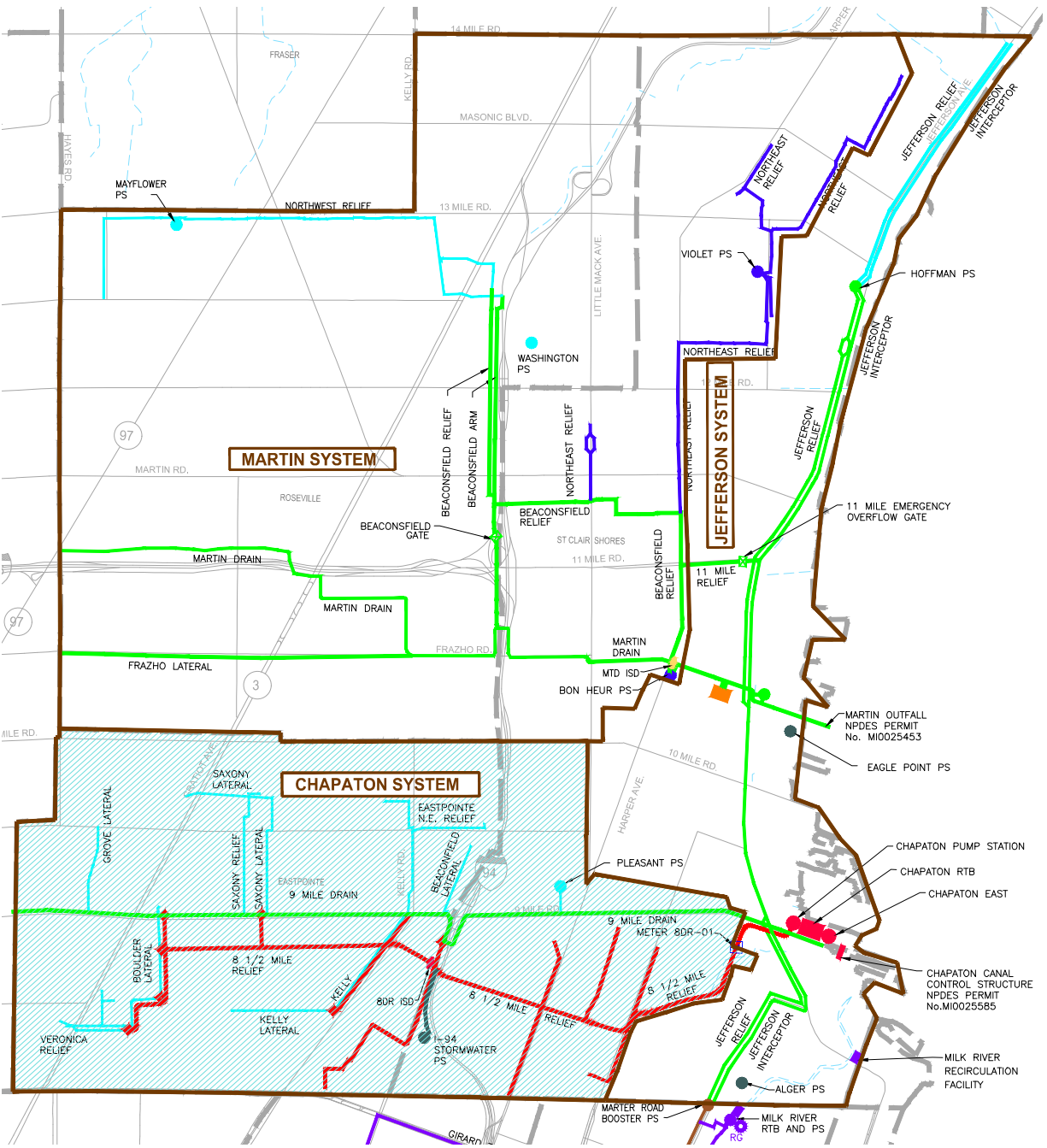
	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 13, 2024	
3. Approval of Minutes for April 8, 2024	3
4. Public Participation	
5. Project & Operational Updates – Vince Astorino	6
6. Chapaton Disinfection Tanks Lining Construction Recommendation – Vince Astorino	40
Motion: To approve the bid from Ultimate Corrosion Control, Inc. for \$101,280 for the lining of three Chapaton disinfection storage tanks.	
7. Consideration for approval of invoices (see attached)	46
8. Financial Report – Bruce Manning	47
9. Adjourn	

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

CHAPATON SYSTEM MAP

Macomb County, MI

Southeast Macomb Sanitary District Wastewater Master Plan



SYSTEM LEGEND

(AS OF DATE OF PUBLICATION)

- SYSTEM BOUNDARY

DISTRICT LEGEND

(AS OF DATE OF PUBLICATION)

- 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
- SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM
- MARTIN SANITARY DIVERSION DISTRICT
- SOUTHEAST MACOMB SANITARY DISTRICT
- NORTHEAST SEWAGE DISPOSAL SYSTEM
- MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT
- LOCAL MUNICIPALITY
- OTHER

ASSET LEGEND

- PUMP STATION
- ⊠ FLOW CONTROL STRUCTURE
- RTB
- ▬ GRAVITY INTERCEPTOR
- IN-SYSTEM STORAGE DEVICE
- ◆ OVERFLOW POINT
- ⊕ LEVEL SENSOR
- ⊙ RAIN GAUGE
- Ⓜ FLOW METER

PROJECT NO.

181053

3.6

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on April 8, 2024, at 10:11 A.M.

PRESENT: Candice S. Miller, Chair
Bryan Santo, Member
Sarah Lucido, Member

PRESENT VIA TELECONFERENCE: Sterling Heights DPW, Jeff Bednar, Environmental Resources Manager

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Finance Manager; Pamela Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor; Sylvia Grot, Board of Commissioners; Don VanSyckel, Board of Commissioners; Stephen Saph Jr., Nickel & Saph Insurance Agency

The meeting was called to order by the Chair, Candice S. Miller. A motion was made by Ms. Lucido, supported by Mr. Santo to approve the agenda as presented.

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of March 11, 2024, were presented. A motion was made by Mr. Santo, supported by Ms. Lucido to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Astorino said that there were no wet weather events for the past month.

Mr. Astorino updated on the Chapaton In-System Storage project and said they are making good progress. He showed photos of the site restoration, sluice gates, bladder installation, and testing. He showed a video of the bladder inflating.

Mr. Astorino updated on the Chapaton Canal Rehabilitation project saying that there has been a lot of progress done in the past month. There has been a lot of work done on the new outfall structure. He presented a drone video comparison from the beginning of the project to now and said they are still tracking to be done at the end of this year, which is a year ahead of schedule.

Mr. Astorino stated there is no update on Chapaton Electrical upgrades. We are working through the submittals and getting things ordered.

A motion was made by Ms. Lucido supported by Mr. Santo to receive and file the project updates.

Adopted: YEAS: 3
NAYS: 0

Mr. Saph presented the insurance policy renewal.

A motion was made by Ms. Lucido, supported by Mr. Santo to approve the Chapter 20 General Liability Insurance coverage renewal with Argonaut Insurance Company in the amount of \$241,911 (8 ½ Mile share \$41,632.88).

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino said the Chapaton sluice gates are the original gates and are critical to the operations of the facility. They were originally installed in 1968 and have reached the end of their useful life. As a part of the MCPWO capital improvement plan and budget, we sought bids for replacement on MITN. We received one bid, from Z Contractor's. We are confident that they will be able to complete this project. Ms. Lucido asked what the scheduling would be for this project. Mr. Astorino said 2 years.

A motion was made by Mr. Santo, supported by Ms. Lucido to approve the bid from Z Contractors, Inc. for \$4,005,000 to replace ten gates at the Chapaton Pump Station.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$1,929,271.17 to the board for review and approval.

A motion was made by Ms. Lucido, supported by Mr. Santo to approve the invoices as presented.

Adopted: YEAS: 3
NAYS: 0

A motion to receive and file the financial report given by Mr. Manning was made by Mr. Santo and supported by Ms. Lucido.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Ms. Lucido, supported by Mr. Santo, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

Ms. Lucido inquired on the status of the Jefferson pipe. Ms. Miller said that it is an SEMSD project and we are assisting them in reviewing design options.

The meeting was adjourned at 10:43 A.M.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on April 8, 2024, the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 04/08/24



To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations Director

Date: May 13, 2024

Subject: Construction Projects Status Updates for the May 2024 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

No wet weather events for the past month.

Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

1. Submittals are being received and processed by the engineering team.
2. Construction Activities per Update Period:
 - Continued removing construction scrap, spoils, and unused materials stored along Beaconsfield greenbelt.
 - Maintained secured construction work site with swing gates and privacy fence screening.
 - Removed Construction trailer from work site location as needed for site restoration.

- Excavated and installed new underdrain at specified locations for new Beaconsfield Road pavements as required.
- Placed stone subgrade for the replacement of Beaconsfield Road pavement as designed.
- Poured in place 85% of new concrete pavements at Beaconsfield Road as proposed.
- Placed 3 ea. precast concrete over the west access vault opening located in the Beaconsfield and Oak intersection pavement as required.
- Finished assembling odor control fittings, canister located in the Beaconsfield Road greenbelt as designed per plan.
- Completed the installation of the exterior finishes, gutters, and downspouts for the Control Building as designed.
- Continued to install electrical conduit, lighting, and switches in the new Control Bldg. at the Beaconsfield site as specified.
- Consumers Energy on site to turn on natural gas supply to meter located at the Beaconsfield Control Building as requested.
- Comcast Business on site to install modem and provide internet connection locally to the Beaconsfield Control Building as requested.
- Continued initial startups and testing of process equipment, electric panels, and displays in the Control Building as required per the contract agreement.
- Placed stone subgrade and driveway pavers for access drive at the Gaukler worksite as designed.

3. Construction Look Ahead:

- Continue cleanup of construction scrap, spoils, and materials along Beaconsfield greenbelt.
- Continue Beaconsfield site security, monitoring, and documentation.
- Remove Security fence and re-open road for Beaconsfield traffic.
- Place stone and driveway pavers access drive at the Beaconsfield worksite as proposed.
- Place site restoration backfill and grade accordingly at the Beaconsfield work site.
- Remove and replace concrete pavements at the Gaukler work site.
- Paint odor control carbon canister and equipment at Beaconsfield greenbelt.
- Continue with startup and installation of the process and electrical equipment, controls, and displays at the Beaconsfield Control building as required.
- Finish placing stone and driveway pavers access drive at the Gaukler worksite as proposed.
- Finish work activities at the Kelly and Malvern site and begin site restorations.
- Work on the Control building exterior finishes and prepare to install the floor coating.
- Remove temporary utility pole in easement per agreement with property owner.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$9,673,200.00
Change Order #1	9/15/22	\$269,666.49
Revised Contract Amount		\$9,942,866.49
Total Spent to Date	Pay Apps. #1 – 23	\$8,275,296.91
Remaining Budget		\$1,667,569.58

Figure 1 – Placing Stone Sub-Base for Concrete Pavements @ Beaconsfield Rd.



Figure 2 – Testing Stone Sub-Base Compaction @ Beaconsfield Site



Figure 3 – Installing Underdrain under Pavements @ Beaconsfield Site



Macomb County Public Works Commissioner Candice S. Miller

21777 Dunham Road, Clinton Township, Michigan 48036

MAIN LINE: 586-469-5325 | ENGINEERING ¹⁰ 586-469-5910 | SOIL EROSION 586-469-5327

Figure 4 – Setting Forms for New Concrete @ Beaconsfield Site



Figure 5 – Placing Precast Panel Over Access Vault @ Beaconsfield Site



Figure 6 – Pouring Concrete at Beaconsfield & Oak Intersection



Figure 7 – Pouring Beaconsfield Road Concrete



Figure 8 – Installing New Lighting at Beaconsfield Control Bldg.



Figure 9 – Wiring & Hydraulics Installation for Sewer Gate Bypass

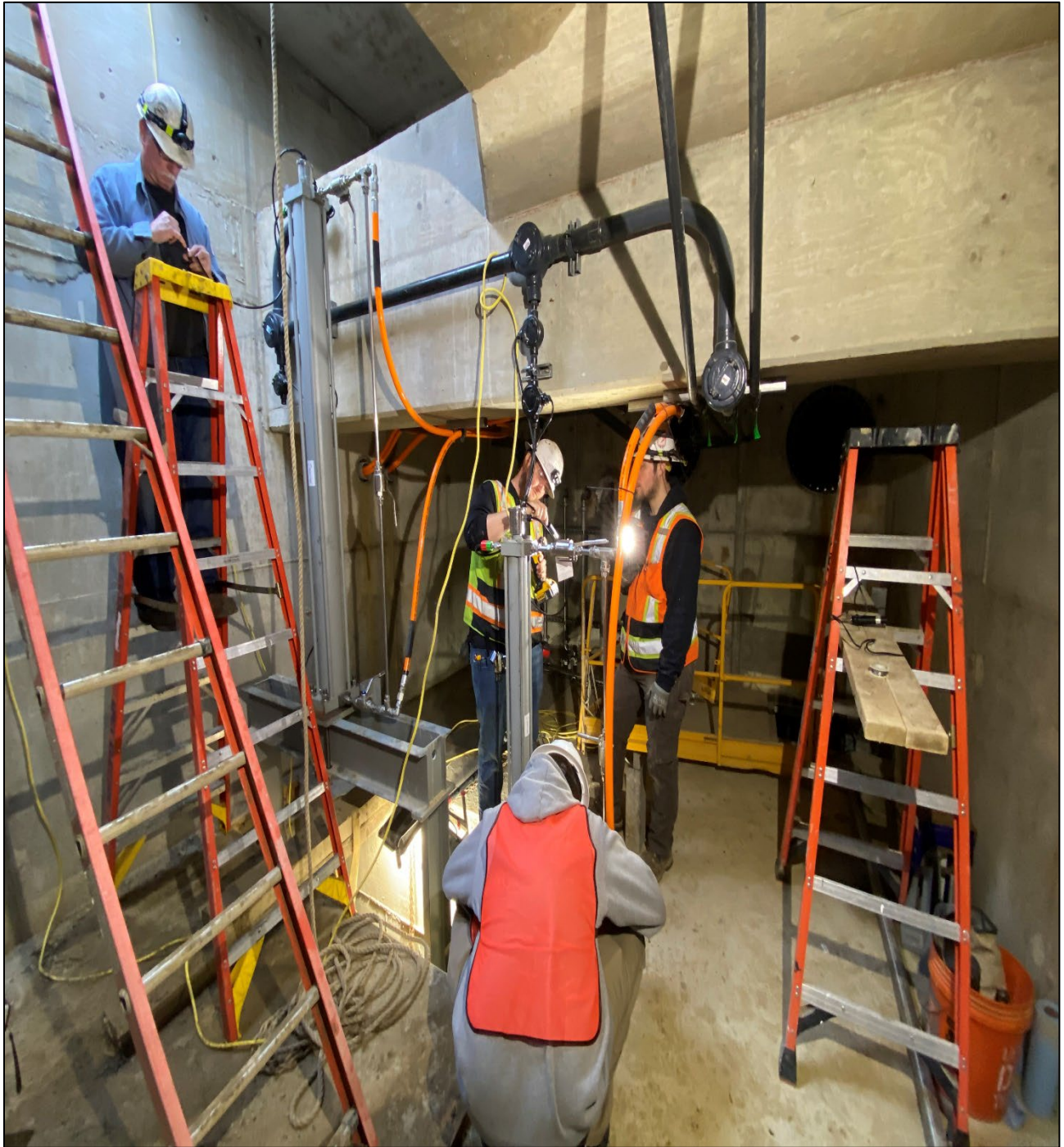


Figure 10 – Filling Odor Control Canister w/ Carbon Media @ Beaconsfield Site



Macomb County Public Works Commissioner Candice S. Miller

21777 Dunham Road, Clinton Township, Michigan 48036

MAIN LINE: 586-469-5325 | ENGINEERING 17 586-469-5910 | SOIL EROSION 586-469-5327

Figure 11 – Hanging Gutters & Downspouts @ Beaconsfield Control Building



Figure 12 – Placing Stone Sub-Base for Gaukler Site Access Driveway



Figure 13 – Placing Pavers for Gaukler Site Access Driveway



Figure 14 – Drone Aerial at 200 FT



Chapaton RTB Canal Rehabilitation Project

Contractor: Z Contractors

Engineering Consultant: Wade Trim

Project Description:

The primary focus of the project is to rehabilitate the Chapaton Treatment Canal which was last rehabilitated in the early 2000s, replace the Chapaton Canal Control Structure gates and associated building and electrical components, and raise the top of the Chapaton Treatment Canal above the 500-year flood elevation. This will provide flood resiliency for the surrounding area and will improve the water quality of Lake St. Clair by capturing more CSO and discharging fewer times per year. Additional project components include a direct process pipe to the lake to reduce treatment costs by using less water, proper abandonment of a portion of the 100-year-old 9-Mile Drain, and an 11-acre sewer separation along 9-Mile Road.

Significant project tasks that have occurred over the past month:

1. Construction Activities per Update Period:
 - Formed and poured gate structure divider walls
 - Placed forms and installed rebar / utilities for gate structure top slab
 - Continued excavating and hauling earth from canal bottom.
 - Placed geogrid and stone along southern 1/3 of canal bottom
 - Formed and poured center spillway in bottom of canal
 - Removed Aeration Chamber outfall screens
 - Poured lightweight concrete mix behind north side sheets
 - Began Phase 2 preliminary underground investigation along E. 9 Mile.

2. Construction Look Ahead:
 - Pour gate structure top slab
 - Extend utilities embedded in top slab below/into control building
 - Install storm sewer system along northerly property line
 - Continue excavating canal bottom from east to west and installing stone & geogrid
 - Install various metal screens and ladders around site
 - Take delivery of Obermeyer equipment

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount	7/28/2023	\$27,374,710.00
Change Order 001	2/12/2024	\$300,969.50
Revised Contract Amount		\$27,675,679.50
Total Spent to Date	Through Pay App. #9	\$17,694,599.40
Remaining Budget		\$9,981,080.10

Figure 15 – Divider Wall Forms



Figure 16 – Divider Wall Forms & Rebar



Figure 17 – Divider Walls Completed



Figure 18 – Top Slab Forms



Figure 19 – Top Slab Rebar and embedded Davit Crane bases



Figure 20 – Canal Bottom Excavation (exposing finished face of sheeting)



Figure 21 – Canal Bottom Excavation (exposing finished face of sheeting)



Figure 22 – Canal Bottom & Buttress - Grading, Stone, Geogrid, and Stone installation



Figure 23 – Canal Bottom Center Spillway Pour



Figure 24 – Aeration Chamber Outfall - Saw-cutting for enlarged opening

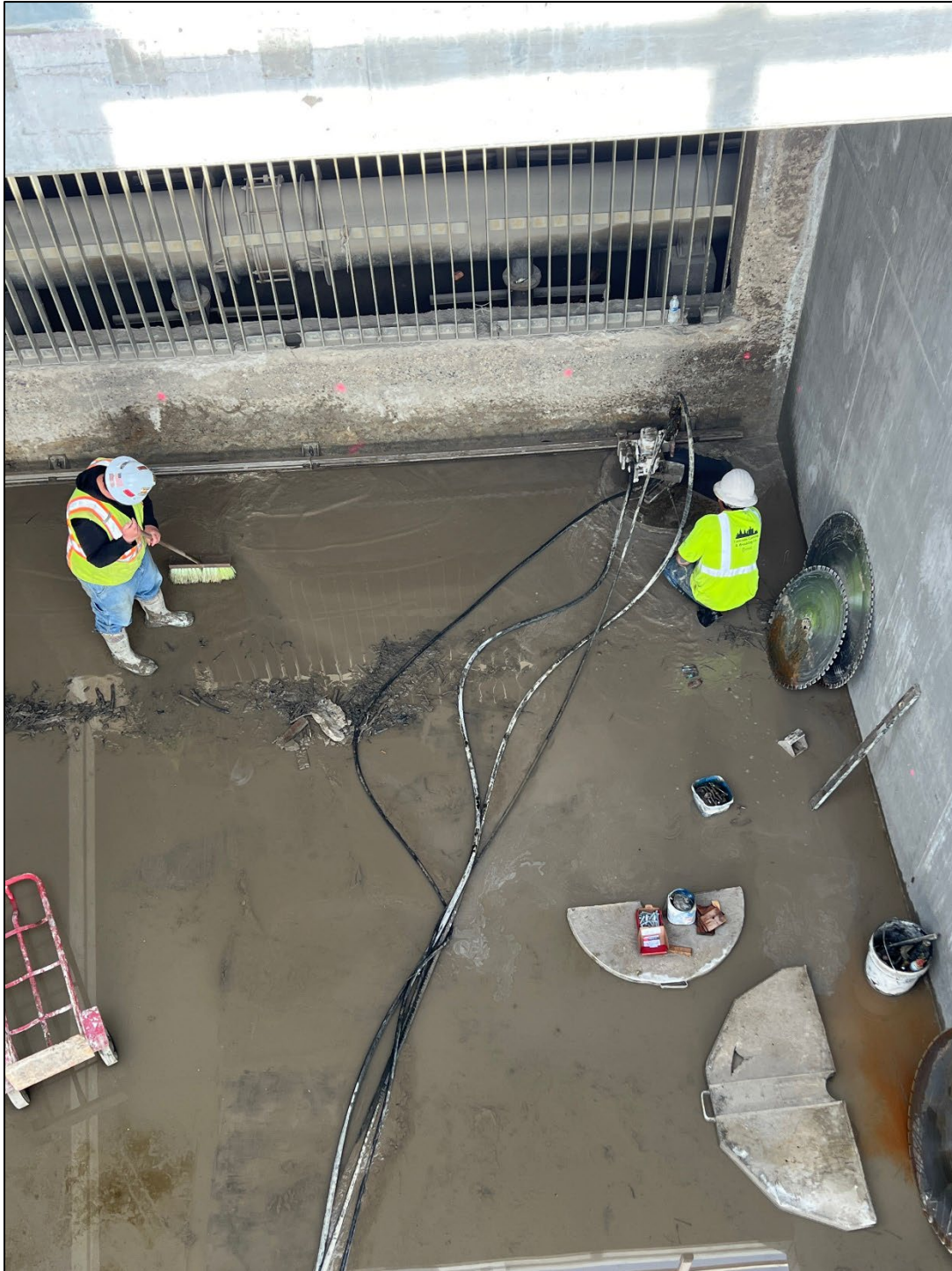


Figure 25 – Aeration Chamber Outfall - Screens/Wall removed for enlarged opening from RTB



Figure 26 – Lightweight Concrete Pour south of Aeration Building



Figure 27 – Drone Aerial at 100 FT Facing East (Baseline)



Figure 28 – Drone Aerial at 100 FT Facing East (05/07/24)



Figure 29 – Drone Aerial at 100 FT Facing West (05/07/24)



Chapaton Electrical Upgrades

Contractor: Rotor Electric

Engineering Consultant: Tetra Tech

Project Description:

The project consists of installing three 2 MW generators and all associated synchronous gear, new motor starters for each of the three stormwater pumps, new 15 kV switchgear, and a complete motor rebuild for storm pump 2. This project will increase the electrical resiliency of the Chapaton Pump Station.

Significant project tasks that have occurred over the past month:

1. Submittals are being received and processed by the engineering team.
2. Construction Activities per Update Period:
 - No construction activities at this time. On-site work is currently not planned until 2025.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$14,650,000.00
Total Spent to Date	Pay Apps. #	\$0.00
Remaining Budget		\$14,650,000.00

Chapaton Basin Gates Rehabilitation

Contractor: Z Contractors

Engineering Consultant: AEW

Project Description:

The project consists of replacing ten sluice gates at the Chapaton facility, many of which are original to 1968 when the pump station was constructed. Additional improvements include new hydraulic systems to operate the gates, removal of all obsolete equipment, and replacement of controls associated with the gates. This project will increase the reliability of these sluice gates that serve some of the most critical purposes within the overall southeast Macomb system.

Significant project tasks that have occurred over the past month:

1. Execute the contract and issue Notice to Proceed to Contractor
2. Submittals are being received and processed by the engineering team.
3. Construction Activities per Update Period:
 - No construction activities at this time. On-site work will begin once equipment is delivered.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$4,005,000.00
Total Spent to Date	Pay Apps. #	\$0.00
Remaining Budget		\$4,005,000.00

Chapaton PS Ventilation Improvements

Contractor: AC Building System

Engineering Consultant: OHM Advisors

Project Description:

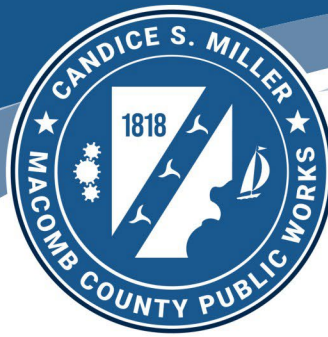
The project consists of installing two 45,000 cfm exhaust fans on the roof of the Chapaton Pump Station to reject excessive heat created when the stormwater pumps are running. Additional improvements include a set of large louvers to allow fresh air into the building, ductwork, and supporting electrical controls and equipment. This project will extend the life of the stators and windings of the 2,750 HP motors that power the three stormwater pumps.

Significant project tasks that have occurred over the past month:

4. Execute the contract and issue Notice to Proceed to Contractor
5. Submittals are being received and processed by the engineering team.
6. Construction Activities per Update Period:
 - No construction activities at this time. On-site work will begin once equipment is delivered.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$473,000.00
Total Spent to Date	Pay Apps. #	\$0.00
Remaining Budget		\$473,000.00



TO: Macomb Interceptor Drain Drainage District Board Members

FROM: Vincent Astorino, Operations Director

DATE: May 13, 2024

RE: Chapaton Disinfection Tank Lining – Construction Recommendation

The Chapaton Retention Treatment Basin (RTB) has a chemical treatment process which utilizes a concentrated sodium hypochlorite solution for disinfection requirements as part of our NPDES permit. The Chapaton RTB has three 17,000-gallon fiberglass horizontal storage tanks which were originally installed in 1997. Prior to that underground storage was utilized at the facility which were abandoned during the install in 1997. In 2013, internal PVC liners were suspended within the tanks using PVC pipe rings and rope to create a new internal liner. This product has not held up and has started to fail.

MCPWO and Fishbeck have extensively looked at options to extend the useful life of the disinfection storage tanks. It was decided that the best approach for this project was to perform a full refurbishment of the fiberglass tanks and then spray them with a corrosion resistant membrane. This membrane that will be applied has an expected useful life of 20+ years.

Once the design and project plan were put together, MCPWO and Fishbeck solicited bids for the project and received 3 bids. Those bids are as follows:

- General Acid Proofing = \$242,580
- Ultimate Corrosion Control, Inc. = \$101,280
- Unconventional Services, Inc. = \$169,000

Ultimate Corrosion Control was evaluated further and found to be satisfactory to perform the work as bid. MCPWO has budgeted \$250,000 to perform this work. Design for this task was performed through our as-needed agreement with Fishbeck for \$12,500. MCPWO is working through CCA fees with Fishbeck.

MCPWO is recommending to award the Chapaton Disinfection Tank Lining project to Ultimate Corrosion Control in the amount of \$101,280. MCPWO will utilize the standard form maintenance agreement with the contractor to ensure our terms are adhered to.

Attachments: Fishbeck Recommendation Letter 5-1-24
Ultimate Corrosion Control Proposal 4-24-24

May 1, 2024
Project No. 231308 Task 1.C

Vince Astorino
Operations Director
Macomb County Public Works
21777 Dunham Road
Clinton Township, MI 48306

Recommendation of Award
8 ½ Mile Relief Drain Drainage District
Chapaton Disinfection Tank Lining
Project No. WO-22034

Three quotes were received for the Chapaton Disinfection Tank Lining Project as follows:

- Ultimate Corrosion Control, Inc. \$101,280
- General Acid Proofing, Inc. \$242,580
- Unconventional Services, Inc. \$169,000


Quotes were evaluated based on the proposed lining system, cost, and contractor experience. All three companies provided acceptable lining systems and have experience lining tanks similar to the Chapaton Disinfection Tanks.

Based on our evaluation, we find the low bidder, Ultimate Corrosion Control, Inc., is satisfactory to perform the work under this contract.

We recommend Ultimate Corrosion Control, Inc. be conditionally awarded the contract in the amount of \$101,280.00. The conditional award requires the contractor provide acceptable insurance as required in the Contract Documents.

If you have any questions or require additional information, please contact me at 248.324.1228 or mesedki@fishbeck.com.

Sincerely,



Maria E. Sedki, PE
Vice President/Senior Civil Engineer

By email
Copy: Kris Benda – Macomb County Public Works Office
Janna Brown, PE – Fishbeck



April 24, 2024

Fishbeck
Water and Wastewater Department

Attention: Janna Brown

Reference: Three (3) - FRP Horizontal Storage Tank
9.5- dia. X 30' L- Chemical Storage Tanks
Sodium Hypochlorite

Subject: **Updated-**

Quotations for removal deteriorated Liners, surface preparation and installation of, Vinyl Ester based- 0.125-inch fiberglass reinforced, Ceilcote 652 Corrosion Resistant Lining System to all interior surfaces.

Madam,

Ultimate Corrosion Control Inc. is pleased to present this proposal and cost estimate on the above referenced project. Ultimate Corrosion Control Inc. is confident of its ability to complete this work in a timely, cost effective and safe manner. In preparing this estimate, we have relied upon our past experience gained through the completion of many projects. Our quality of service and safety speaks for itself.

The scope of work, our technical approaches, health and safety, and cost associated with this project are outlined below for your approval.

Technical Approach

Ultimate Corrosion Control Inc. shall mobilize the primary personnel and equipment needed for this project from our Clarkston, Michigan Facility.

Upon notice of approval of the necessary contracts, Ultimate Corrosion Control Inc. personnel shall review the safety and security briefing procedures for the Macomb County- Chapaton Pump Station Project.

With completion of the safety and security orientation, we shall set up the necessary equipment and begin the project.

Economic Summary

Online: www.UltiCor.com

\$96,600.00

Ninety-Six Thousand Six Hundred Dollars

Addendum No.1

UCC Inc. to supply Waste Container and remove all Waste generated during surface preparation and Lining installation, please add **\$4,680.00** to the Base Bid.

Notes:

The following terms and conditions are applicable to the offer made herein:

1. Project duration included in our proposal:
Seven (7) Days- Each Tank.
Based on single mobilization and Straight Time Basis.
2. **All surfaces must be maintained at 50 deg. F. minimum; this quotation doesn't include any provision for heating or sheltering surfaces scheduled to receive Corrosion Protection.**
3. Work inside the Tank is described by OSHA Regulations and Ultimate Corrosion Control Inc. Safety Policies as work inside confined space. We will provide all necessary monitoring equipment, safety personnel, explosion proof lighting and ventilation.
4. Led times:
 - a. Mobilization and equipment- Two (2) weeks.
 - b. Materials – Three (3) weeks.
5. Macomb County Public Works normal safety and plant rules will be adhered to.
6. Material Data Sheets for all selected products available upon request.
7. Ultimate Corrosion Control Inc. has incorporated full inspection coordination with contracted costumer. Ultimate Corrosion Control Inc. requires this inspection to be on-going and tied to the daily progress of work.
Use of third-party inspectors requires that the inspectors have appropriate experience with the applicable; lining and surface preparation systems.
8. Force Majeure: All terms and conditions contained herein are contingent on non-occurrence of strikes, fires, floods, new government requirements, acts of God, suppliers' delays, and other matters beyond our reasonable control.
9. Client to provide access to 110 volts electric outlets and city water.
10. Work hours begin at 7:00 a.m. Any other schedule will require evaluation by Ultimate Corrosion Control Inc. Purchaser/Owner is to furnish all fire, work, and safety permits prior to the start of work each day-if necessary.
11. Warranty: As it's sole warranty, Ultimate Corrosion Control Inc. warrants that the Work to be supplied pursuant to this agreement will be free from defects in materials and workmanship.
Should any failure to conform to this warranty appear within the Warranty Period, appearance or discovery of such failure and shall, upon notification, correct such non-conformity, at its option, either by repairing or altering any defective lining or parts, or by installing a replacement lining.

No obligation shall exist with respect to any alleged defect not discovered within the Warranty Period and properly reported to Ultimate Corrosion Control Inc.

The "Warranty Period" referred to herein shall be (1) a period five year from the date of total completion of Ultimate Corrosion Control Inc. work or (2) a period of five years from the date of acceptance of the Work by the Owner, whichever is longer, but in no event longer than a period of sixty (60) months following the date of substantial completion.

This warranty is in lieu of all other warranties, including alleged warranties related to any course of dealing or usage of trade.

NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PURPOSE, OR OTHER WARRANTY (WHETHER EXPRESSED, IMPLIED OR STATUTORY) IS MADE BY ULTIMATE CORROSION CONTROL INC.

In no event shall Ultimate Corrosion Control Inc. be deemed to have warranted its Work against, or otherwise be held responsible for, any loss, damage or deterioration caused at any time by mechanical damage.

There are no intended beneficiaries of this warranty other than the owner of the Work to be provided by Ultimate Corrosion Control Inc. under this agreement.

12. Limitation of remedies and exclusion of damages: Correction of defects, in the manner and for the period of time provided above, shall constitute fulfillment of liabilities of Ultimate Corrosion Control Inc. under this agreement, whether based on contract, negligence or otherwise, with respect to or arising out of said Work.

Ultimate Corrosion Control Inc. shall not be liable for special, indirect or consequential damages.

The remedies set forth in this agreement are exclusive, and the liability of Ultimate Corrosion Control Inc. with respect to any contract or sale or anything done in connection therewith, whether in contract, in tort, under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the contract price of the Lining on which such liability is based.

14. Modification of Offer. No contract shall be deemed finally accepted by Ultimate Corrosion Control Inc. until acceptance is signified by the signature of an officer of Ultimate Corrosion Control Inc. Prior to formal execution of a contract by Ultimate Corrosion Control Inc. prices and scheduling information quoted herein are subject to (1) correction due to clerical error or omission, and (2) adjustment due to any increase in the price of material or labor becoming effective at any time hereafter.
15. Prices and terms are valid for 60 Days.
16. Sales Tax is not included in UCC Inc. Proposal.

Thank you for the opportunity to provide this quotation. Please let me know if you have any questions or if there is any other information, I can provide you with.

If you should have any questions or if we can be of any further assistance, please contact me at 248-388-3525.

Sincerely,

Arthur Rak
Polymer Coatings Specialist
Ultimate Corrosion Control Inc.
5001 Spring Meadow Dr.
P.O. Box 337

Clarkston, MI 48347-0337
Ph. 248-388-3525
Fax: 248-393-8391
artrak@UltiCor.com
www.Ulticor.com

EIGHT AND ONE-HALF MILE RELIEF
04/16/2024 - 05/07/2024

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>			
8 1/2 Mile Relief	Chapter 20 State of MI – 16.04% County of Macomb – 2.25% Dept. of Roads – 2.25% Eastpointe – 54.33% St. Clair Shores – 25.13%	Astorino	Anderson, Ecksein & Westrick	\$ 1,752.01	Invoice #146307 - 10.09.23	Chapaton Basin Gate Design through 09.24.23	\$ 18,396.10			
			Anderson, Ecksein & Westrick	\$ 7,008.04	Invoice #149742 - 04.07.24	Chapaton Basin Gate Design through 03.10.24				
			City of St. Clair Shores	\$ 1,603.52	Invoice #24-234 - 03.15.24	Water - 12.07.23 - 03.15.24				
			Consumers Energy	\$ 856.90	Invoice #207147514793 - 04.05.24	Utilities - 03.07.24 - 04.05.24				
			Consumers Energy	\$ 573.16	Invoice #202432298734 - 04.05.24	Utilities - 03.07.24 - 04.05.24				
			Department of Roads	\$ 506.37	Invoice #302672 - 02.12.24	Fleet Fuel - January 2024				
			DTE Energy	\$ 526.01	Invoice #24-252 - 04.01.24	Monthly Electric - 03.01.24 - 03.31.24				
			Fishbeck	\$ 4,392.00	Invoice #435932 - 04.17.24	Chapaton Disinfection Tank Lining - Design	\$ 21,101.44			
			Fishbeck	\$ 11,064.00	Invoice #435932 - 04.17.24	In-System Storage - Nexgen Update	\$ 21,101.44			
			FK Engineering	\$ 1,434.50	Invoice #24-050-001 - 03.25.24	As-Needed - Beaconsfield Grouting through 03.23.24	\$ 98,565.50			
			Jacobs Engineering	\$ 94,595.58	Invoice #2 - 04.23.24	Digital Twin Pilot through 04.12.24	\$ 123,862.97			
			Kennedy Industries	\$ 4,313.86	Invoice #641431 - 04.15.24	Hoses				
			Kennedy Industries	\$ 4,050.00	Invoice #641567 - 04.23.24	Preventative Maintenance				
			Kienbaum Hardy Viviano Pelton	\$ 1,072.50	Invoice #50951 - 04.01.24	Shore Club Wall Agreement				
			Kienbaum Hardy Viviano Pelton	\$ 1,127.50	Invoice #50945 - 04.01.24	Screening Wall Agreement				
			Nickel & Saph	\$ 41,632.89	Invoice #23293 - 04.08.24	Liability Insurance Renewal				
			NTH Consultants	\$ 733.00	Invoice #635486 - 04.03.24	2023 Interceptor Inspection through 03.29.24	\$ 11,999.56			
			OHM	\$ 2,671.00	Invoice #74222 - 04.16.24	Ventilation Design through 04.06.24	\$ 45,654.75			
			People Driven Technology	\$ 1,873.13	Invoice #INV11064 - 04.10.24	SCADA As-Needed				
			SunSource	\$ 564.70	Invoice #6125444-01 - 04.30.24	Norco Filter Element				
			Tetra Tech	\$ 36,701.73	Invoice #52226597 - 04.11.24	In-System Storage CCA through 03.29.24	\$ 230,216.39			
			Tetra Tech	\$ 8,325.00	Invoice #52222498- 04.04.24	Chapaton Electrical Design CCA through 03.29.24	\$ 664,608.00			
			Uline	\$ 1,655.49	Invoice #175699979 - 03.15.24	Protective Outerwear				
			Verizon	\$ 505.40	Invoice #9959921099 - 03.23.24	Monthly Cellular - 02.24.23 - 03.23.24				
			Wade Trim	\$ 82,693.83	Invoice #2030889 - 04.04.24	Chapaton RTB Canal Upgrades through 03.29.24	\$ 1,291,694.12			
			Wade Trim	\$ 72,561.12	Invoice #2031244 - 05.01.24	Chapaton RTB Canal CCA through 04.26.24	\$ 1,219,133.00			
			Z Contractors	\$ 1,526,747.22	Invoice #App 9 - 04.26.24	Chapaton RTB Canal Rehabilitation through 04.30.24	\$ 9,981,080.10			
			Total			\$ 1,911,540.46				

Budget to Actual
8.5 Mile Relief
As of Apr 30, 2024 =58%

DESCRIPTION	2024 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	275,000		235,334	39,666	85.6%
Other Revenue	5,000		486	4,514	9.7%
Grants	47,009,450		22,981,788	24,027,662	48.9%
8.5 O&M/Charge Required Revenue	5,260,440		5,260,440	-	100.0%
PY Revenue-Fund Balance	11,372,850			11,372,850	0.0%
Reimbursement from St. Clair Shores	710,000			710,000	0.0%
Use of Reserve	270,560			270,560	0.0%
Total Revenue Accounts	64,903,300	-	28,478,048	36,425,252	43.9%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	-	100.0%
Dues, Training, Conf, Subs.	17,400		11,382	6,018	65.4%
Engineering					
PS Main Floor Ventilation	750,000		34,447	715,553	4.6%
Digital Twin Model Pilot Project	275,000		114,137	160,863	41.5%
Inspection Program	-		81,635	(81,635)	100.0%
Sluice & Dewatering Gates Rehab/Replacement Project	4,912,400		18,020	4,894,380	0.4%
Flushing	4,863,290		92,653	4,770,637	1.9%
General Construction/Engineering Contingency-All Projects	567,500			567,500	0.0%
As Needed Engineering	161,460		54,594	106,866	33.8%
9 Mile Emergency Bypass Structural Rehab	881,420		3,182	878,238	0.4%
9 Mile Bypass Pipe Structural Repairs-Construction/CA	50,000		16,088	33,912	32.2%
In-System Storage-Construction Admin and Construction	2,617,840		1,133,837	1,484,003	43.3%
In-System Storage-Construction Admin and Construction (County ARPA)	2,150,250		2,150,250	-	100.0%
Electrical Rehab (State and County ARPA Funds)	15,369,930		52,294	15,317,636	100.0%
Canal Rehab (State ARPA Funds)	29,489,270		20,779,244	8,710,026	100.0%
New Equipment	113,750			113,750	0.0%
Office Supplies	500			500	0.0%
Operating Supplies	96,450		41,292	55,158	42.8%
Other Professional Svcs	56,500		19,901	36,599	35.2%
Personnel Services	1,251,350			1,251,350	0.0%
Repair & Maintenance	614,500		165,483	449,017	26.9%
Contribution to Reserve	288,240			288,240	0.0%
Scada System	82,050		5,882	76,168	7.2%
Utilities	288,200		121,780	166,420	42.3%
Total Expense Accounts	64,903,300	-	24,902,101	40,001,199	38.4%

	O&M Balance 9/30/2023	O&M	Total 4/30/2024
Cash - Operating	15,698,301	3,575,947	19,274,248
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		28,478,048	28,478,048
Expenditures		24,902,101	24,902,101
			0
Equity*	15,698,301		19,274,248

Detail of 2023 Equity*

Chlorine storage tank relining	7,500	Capital Reserve	1,768,010
Painting	50,000	SCADA Reserve	158,470
As needed Engineering	35,723	SRF Replacement Reserve	2,851,350
Sluice and Dewatering Gates Rehab/Replace Project	3,958,336	9 Mile Bypass Pipe Struct Rprs	29,726
Flushing	3,850,637	In System Storage	1,961,964
9 Mile Emergency Bypass Structural Rehab	996,585	East Building Server	30,000

ARPA Funds	Remaining
County	
ISS	2,595,237
Electrical	9,500,000
State	
Electrical	5,903,393
Canal Rehab	20,741,110
Federal Earmark	2,500,000