

MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
NOVEMBER 13, 2023
10:30 A.M.
AGENDA

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

**Call in Number: 1-224-990-0182
Access Code: 927 405 823**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for November 13, 2023	
3. Approval of Minutes for October 16, 2023	3
4. Public Participation	
5. Project Updates – Stephen Downing/Vince Astorino	6
6. Garfield Interceptor Lining Project – Change Order #2 – AEW CCA Services – Vince Astorino	30
Motion: To approve Change Order #2 for \$53,018 for Construction Contract Administration services with Anderson, Eckstein & Westrick Inc. for the Garfield Interceptor Lining Project.	
7. Consideration for approval of invoices (see attached)	32
8. Financial Report – Bruce Manning	34
9. Adjourn	

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on October 16, 2023, at 10:56 A.M.

PRESENT: Candice S. Miller, Chair
Don VanSyckel, Member
Bryan Santo, Member

ALSO PRESENT: Daniel Acciavatti, Deputy Government Relations; 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

PRESENT VIA TELECONFERENCE: Bonnie Rau, City of Sterling Heights DPW

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of September 11, 2023, were presented. A motion was made by Mr. VanSyckel, supported by Mr. Santo 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. Downing updated on Segment 5. They are cleaning from both directions. We were able to turn off the dewatering pumps for the CS12 Structure. The pump station is fully operational. The contractor continues sediment and debris removal. As of this report, approximately 2,000 tons of material has been removed. They are scheduled to wrap up sediment removal in early November. He presented some photos of the work being performed.

Mr. Downing then presented on Segment 6 Rehabilitation. They have buttoned up a lot of things along 15 Mile Road. We were able to reopen westbound 15 Mile Road up through Bobcean and Klein. The contractors are making great progress. They encountered some heavy debris, large items like shovels and large chunks of concrete that they have been dragging back to CS2, so that has slowed them down a bit. We have a few more weeks of debris removal if the weather cooperates. He then presented photos of work being performed. Ms. Miller said that MCPWO Engineer Steve Rozycki has really been instrumental, maintaining flow control for all of the various projects, including OMID. Mr. VanSyckel asked if there are electrical backups on all the gates, and Mr. Astorino said there are portable generator hook ups just in case.

Mr. Astorino updated on the 2023 Interceptor Inspection Program. Taplin is doing a good job getting through the MIDD. This week we will get in to the 15 Mile Road Interceptor and the forced main for Clintondale. The riskiest part of this project is just trying to get into that forced main.

Mr. Downing stated that there is nothing new to report on Phase II Grouting.

Mr. Downing said that a lot of the progress for Odor and Corrosion Facilities has been on the Fraser biofilters. He showed photos of the work being performed. He said that the odor complaints were up a little bit overall on the projects over the last month. The weather has changed, and this is the first time in 8 or 9 years that we have not had the Fraser biofilter on. We plan on having the Fraser biofilter online by March. Mr. VanSyckel asked when the project on Dodge Park Road will be complete. Mr. Downing stated that the design is near 90% complete. It should be bid out in the early part of next year.

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

Adopted: YEAS: 3
NAYS: 0

Mr. Downing presented on Segment 5 and said that there was a meeting last week with Oscar Renda. There was an original completion date of September 2022 for this project, and we currently still have a couple months left for the contract work to be complete. Oscar Renda was looking for an additional \$10.1 million in compensation during that meeting, but we negotiated and settled on a much lower amount. Ms. Miller said we are not done negotiating. Mr. Santo asked what was still outstanding and Mr. Downing said # 4 on the list which is flow control geopolymer delays and #6 infiltration void delays at CS-12.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve Change Order #5 with Oscar Renda Contracting for the Segment 5 project totaling \$3,731,037.45 (which includes OMID's share of \$350,000) with no increase in contract days.

Adopted: YEAS: 3
NAYS: 0

Mr. Downing presented on the Segment 5 OCIP Liability Insurance 9-month extension. There has also been additional work added to the project by the Owner.

A motion was made by Mr. Santo, supported by Mr. VanSyckel to receive and file the memo regarding the 9-month extension of the OCIP Liability Insurance for the Segment 5 project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$11,051,590.28 to the board for review and approval.

A motion was made by Mr. VanSyckel, 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 Mr. VanSyckel

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. VanSyckel, supported by Mr. Santo that the meeting of the Macomb Interceptor Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 11:46 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 October 16, 2023, 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: 10/16/23



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: File

From: Stephen Downing, Construction & Maintenance Manager
Vincent Astorino, Operations Director

Date: November 13, 2023

Subject: Construction Projects Status Updates for November 2023 Board Meeting

The following provides a status update for construction work performed within the Macomb Interceptor Drain Drainage District for the previous month.

Segment 5 Rehabilitation

Contractor: Oscar Renda

Engineering Consultant: FK Engineering

Project Description:

The Segment 5 reach of the Romeo Arm Interceptor is approximately 8,300 linear feet; it runs along 15 Mile Road starting at the ITC Corridor and extends east to approximately Hayes Road. The first 7,000 linear feet is 11-foot diameter non-reinforced concrete pipe, and the next 1,300 linear feet is 8-foot diameter steel reinforced concrete pipe. The rehabilitation consists of debris removal, cleaning, and inspection of the pipe's invert. Next, HOBAS pipe will be used to slip line 7,000 linear feet of the 11-foot diameter sewer and the 1,300 linear feet section of 8-foot diameter pipe will be coated with a corrosion resistant geo-polymer spray applied coating. To facilitate this work, a new control structure and access shaft is under construction in the ITC Corridor. The new control structure will provide the contractor access to the sewer to facilitate the work and will also serve as a dewatering pump station to draw down the upstream water level in the sewer.

Significant project tasks that have occurred over the past month:

1. Continued development, review, and approval of the required construction submittals.
2. Ground dewatering well maintenance and monitoring.
 - o The groundwater has rebound to its native elevation. We continue to monitor the drop pipes and structure for infiltration. The wells will remain available for installation of pumps until the completion of the project.

3. CS-12 Pump Station and Control structure progress, which includes:
 - o MCPWO personnel continue the operation of the pump station and make adjustments to maximize the efficiency of the pump station for the Contractor to perform their work.
 - o The Contractor is performing the regular pump station maintenance during construction.
4. Sediment and Debris Removal
 - o Continued debris/sediment removal with a skid-steer that has a modified bucket.
 - o The debris/sediment is a sandy material which is decanting very quickly – this allows the material to be hauled off site regularly.
 - o Approximately 3,747 tons of material has been removed
 - o Approximately 5,625 linear feet
5. Manhole Rehab & Spray-Lining
 - o Continued preparation for the rehabilitation of manholes along 15 Mile, including removal of the ladder rungs and concrete patch repair.
6. HOBAS Pipe
 - o A total of 387 pipe sections have been delivered and staged in the ITC corridor (within the approved area). This includes the pipe for OMID’s PCI-7.
7. Weather & Maintenance
 - o There were minimal disruptions to work in the Interceptor during the month.

Construction Costs:

	Date	
Original Contract Amount	10/21/2020	\$28,807,500.00
Current Contract Amount	10/31/2023	\$35,433,572.23
Total Spent to Date	10/31/2023	\$28,008,686.75
Remaining Budget	10/31/2023	\$7,424,885.48



Figure 1 – CS-12 Pump Station, Construction Yard



Figure 2 – Unloading Debris at CS-12



Figure 3 – Unloading Debris at MH-05



Figure 4 – Transferring Debris to Truck for Haul Off at MH-05



Figure 5 – Lowering in Skid-steer at MH-05



Figure 6 – ORC Performing Pump Maintenance at CS-12

Segment 6 Rehabilitation

Contractor: Ric-Man Construction

Engineering Consultant: FK Engineering

Project Description:

The Segment 6 Rehab project includes the rehabilitation of these main elements:

1. Cleaning and slip-lining (Hobas) of the 5-foot diameter 15 Mile Interceptor from MH-01 at Garfield Road and 15 Mile to MH-04 approximately 2200 feet east along 15 Mile.
2. Cleaning and slip-lining (Hobas) the 1400 linear feet 11-foot diameter Romeo Arm Interceptor sewer between CS-3 on 15 Mile Road and CS-2 on Garfield north of 15 Mile Road.
3. Rehabilitation of the Meter Facility FR-S-1 on Garfield south of 15 Mile Road.
4. Rehabilitation and spray-lining of the CS-2 and CS-3 control structure facilities. These concrete structures have been damaged by H2S damage over time and need repair.
5. Installation of an air-jumper to be incorporated into the existing Biofilter facility. This is being done to address the high level of odor issues that have resulted over the years from the intersection of 15 Mile and Garfield.
6. Installation of a new gate control structure on the 15 Mile Interceptor. This will allow for the rehabilitation of the MH-01 structure and provide future storage options within that interceptor.

The project started in September 2021 and is scheduled to be completed in May 2024.

Significant project tasks that have occurred over the past month:

1. The Contractor continues to develop and submit the required submittals to the Engineer.
2. Continued the debris/sediment removal between CS-2 and CS-3.
 - o Approximately 660 linear feet of pipe cleaned
 - o Moving setup to the downstream MH-10 the week of 11/6/2023.
3. All straight sections of HOBAS pipe have been delivered. There are 13 mitered sections currently being fabricated.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	5/1/2021	\$13,541,545.00
Change Order No. 1	8/1/2021	\$132,664.70
Total Contract Amount	10/31/2023	\$13,674,209.70
Total Spent to Date	10/31/2023	\$10,889,150.33
Remaining Budget	10/31/2023	\$2,785,059.37



Figure 7 – Aerial View at CS-2 of Debris Removal Equipment



Figure 8 –15 Mile Re-opened at CS-13



Figure 9 – MH-05 Restoration



Figure 10 – RAI Curve Cleaning Setup at CS-2



Figure 11 – RAI Curve Debris Removal

2023 Interceptor Inspection Program

Contractor: Taplin

Engineering Consultant: NTH

Project Description:

The 2023 sewer inspection program was awarded to Taplin in March 2023. The inspection program includes inspection of approximately 24 miles of sanitary sewer ranging from 2-feet to 12-feet in diameter and 152 manholes across the MIDDD and 8.5 Mile Districts.

As part of the MIDDD inspection, sonar and laser scanning will be performed within the interceptors. This data will be used to not only correlate laser scan data to the 2017 inspection, but the sonar data will be used to develop design drawings to remove the sediment within the MIDDD interceptors.

The inspection interval for the entire system is based on a 3-year cycle, where non-reinforced concrete pipe is inspected every 3 years and reinforced concrete pipe is inspected every 6 years.

Significant project tasks that have occurred over the past month:

1. The Inspection work in the Lakeshore Interceptor is completed and Multi-Sensor data has been processed and submitted.
2. Romeo Arm, Garfield Interceptor, and 15 Mile Interceptor (gravity portion) inspections have been completed and the data is being processed.
3. 15 Mile Interceptor forcemain inspection has started.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	4/10/23	\$591,319.40
Total Spent to Date	Through Pay App #2	\$149,697.05
Remaining Budget	10/31/2023	\$441,625.35

***This Table reflects the MIDDD costs only.**

Phase II Grouting

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: AEW

Project Description:

The Phase II Grouting project was awarded to Doetsch Environmental during summer 2020. The work includes chemical grouting of the sewer and manholes where infiltration is present. The work is planned in all reaches of the system not included in the Segment 5 or portion of the Romeo Arm rehabilitated during the 2016 Interceptor Collapse. The main areas of work include the Romeo Arm along Garfield Road between 15 Mile and Clinton River Roads, the Garfield Interceptor between Clinton River and 21 Mile Roads, and the Lakeshore Interceptor between the Clintondale Pump Station at 15 Mile and Union Lake and Joy Boulevard in Harrison Township. The chemical grouting is aimed to stop all active infiltration within the system in advance of future rehabilitation and maintenance projects.

Significant project tasks that have occurred over the past month:

1. The crew has not worked since late July 2022.
2. The critical area grouting is complete, grouting operations will resume in non-critical areas when daily flow control operations allow.

Construction Costs:

	Date	
Original Contract Amount	6/24/2020	\$3,000,000.00
Change Order No. 1	3/14/2022	\$3,000,000.00
Current Contract Amount	10/31/2023	\$6,000,000.00
Total Spent to Date	10/31/2023	\$4,432,736.20
Remaining Budget	10/31/2023	\$1,567,263.80

Odor & Corrosion Control Facilities

Contractor: L. D'Agostini & Sons

Engineering Consultant: Tetra Tech

Project Description:

The Macomb Interceptor Drain completed a system-wide odor and corrosion study to evaluate the need for additional odor and corrosion control facilities to mitigate corrosion induced degradation of the interceptor and nuisance odors emitting from the interceptor near homes, businesses and public spaces. This effort is concentrated on extending the useful life of the interceptor and reducing nuisance odors emitting from the interceptor.

The study identified the need to construct three new odor and corrosion control facilities. Additionally, it was determined that the existing open-bed woodchip media type Fraser Bio-Filter would be more efficient and effective if converted to an enclosed bio-filter with an engineered media. The locations of the new facilities were determined through analysis and computer modeling using data that was collected in the field during the study phase. The facilities are intended to complement one another to reduce hydrogen sulfide induced corrosion.

The facilities are summarized in the Table below:

Facility	Location	Filter Type	Media Type
Fraser	15 Mile & Garfield	Bio-Filter	Engineered
Macomb Township	21 Mile & Garfield	Bio-Filter	Engineered
Clintondale PS	Union Lake & Sorrentino	Carbon Filter	Carbon
NGI Pump Station	Gratiot & Concordia	Chemical Injection	Calcium Nitrate

The construction contract was awarded to L. D'Agostini & Sons in October of 2022 and the contractual Notice to Proceed was issued with an effective date of December 2, 2022. The number of days to achieve substantial completion is 630 days, resulting in a contractually required substantial completion date of August 23, 2024.

The construction work commenced in January of 2023 and is estimated to be completed by the fall of 2024. The estimated schedule for each site is summarized in the table below:

Facility	Location	Start Date	Finish Date
Fraser	15 Mile & Garfield	March – 2023	March – 2024
Macomb Township	21 Mile & Garfield	April – 2023	May – 2024
Clintondale Pump Station	Union Lake & Sorrentino	September – 2023	May – 2024
NGI Pump Station	Gratiot & Concordia	January – 2023	November – 2023

*The dates are based on the Construction schedule dated October 10, 2023

Significant project tasks that have occurred over the past month:

1. The Contractor is developing and submitting the required submittals to the Engineer & Owner for review.
2. NGI PS Site:
 - a. The site restoration is completed
 - b. Chemical storage tanks expected to be delivered in November
 - i. 1-2 weeks of work once the tanks are received
3. Clintondale PS Site:
 - a. Performed concrete saw-cut and excavation for FAD installation
 - b. Encountered an unmarked concrete encased duct-bank and a couple other conflicts with elevations of existing utilities.
4. 21 Mile & Garfield Site
 - a. Dewatered the excavation with a 3-inch pump.
 - b. Submitted, reviewed and approved a dewatering plan.
 - c. Dewatering Contractor to mobilize the week of 10-9-23
5. Fraser Site
 - a. Continued Installation of rebar for structure walls and columns
 - b. Continued concrete formwork and concrete placement for walls and foundations

Construction Costs:

	Date	
Original Contract Amount	12/2/2022	\$11,799,678.78
Change Order No. 1	9/9/2023	\$283,792.72
Current Contract Amount	10/31/2023	\$12,083,471.50
Total Spent to Date	10/31/2023	\$5,059,798.13
Remaining Budget	10/31/2023	\$7,023,673.37



Figure 12 – Aerial View of the Fraser Biofilter



Figure 13 – Fraser Bio-Filter Roof Beam Construction



Figure 14 – Fraser Bio-Filter Roof Beam Construction



Figure 15 – Fraser Bio-Filter Media



Figure 16 – Fraser Bio-Filter Backfill & Compaction



Figure 17 – Aerial View of Maccomb Bio-Filter Site



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

From: Vincent Astorino, Operations & Flow Manager

Date: November 13, 2023

Subject: Garfield Interceptor Lining Pilot Project – AEW Change Order #2

During routine inspection of the large-diameter interceptors that comprise the MIDDD collection system it was discovered that a portion of the 7-foot diameter Garfield Interceptor (GI) is experiencing significantly accelerated degradation. The relatively localized pipe damage is consistent with Hydrogen Sulfide (H₂S) attack that is exacerbated by the turbulence created as the local municipality flows enter the interceptors. Repairing this reach of pipe is of the utmost importance to maintain uninterrupted service to the communities it serves. MCPWO staff have been working diligently to present a solution to this urgent matter.

The MIDDD board engaged Anderson, Eckstein & Westrick (AEW) to provide construction oversight services for the Garfield Interceptor Lining Project in the amount of \$127,873.50.

MCPWO added a second phase to the project once additional lining needs were identified within the connection sewers from Shelby and Macomb Township. For this task MCPWO, worked with AEW to establish Change Order #1 for the additional time estimated for the phase 2 work which was in the amount of \$32,000.

This phase 2 work ended up taking more time and effort than originally anticipated due to deep repairs required specifically on the Shelby Township side. This led to additional time on the project and therefore increased costs from AEW. MCPWO worked with AEW to close out the project and ended at an additional \$53,018. Ultimately the total cost for AEW on this project was 7% of the total construction cost which is in line with CCA costs. This change order will close out the Garfield Lining project.

MCPWO is recommending that the Board approve change order #2 to Anderson, Eckstein & Westrick, Inc. in the total not-to-exceed amount of \$53,018.00.

Date of Issuance: 11/13/2023

Effective Date: 11/13/2023

Owner: Macomb Interceptor Drain

Owner's Contract No.: WWS-2022-006

Drainage District

Engineer Contract No.: 0211-0211

Engineer: Anderson, Eckstein & Westrick, Inc.

Contract Name: Garfield Interceptor Lining Pilot Project

The Contract is modified as follows upon execution of this Change Order:

Add \$53,018 to the not-to-exceed Contract Price stated in the existing Contract dated 08/09/2022 to perform the additional scope of services for the Garfield Interceptor Lining Pilot Project. This change order accounts for additional AEW effort necessary to provide construction contract administration (CCA) services to the completion of the construction project.

The original Contract Sum was: \$ 127,873.50

The net change from previously approved Change Orders: \$ 32,000.00

The Contract Sum prior to this Change Order: \$ 159,873.50

The Contract Sum prior to this Change Order will be increased by: \$ 53,018.00

The new Contract Sum, including this Change Order, will be: \$ 212,891.50

The Contract Time will be changed by: 0 (days)

The date of Substantial Completion as of the date of this Change Order, therefore, is: N/A

ACCEPTED:

ACCEPTED:

By: _____
Owner (Authorized Signature)

By: _____
Engineer (Authorized Signature)

Title _____

Title _____

Date _____

Date _____

MACOMB INTERCEPTOR DRAINAGE DISTRICT
10/11/2023 - 11/7/2023

<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>
Macomb Interceptor Drain	Chapter 20 Chesterfield – 7.4416% Clinton – 20.9117% Fraser – 4.2007% Harrison – 6.2625% Lenox – 1.1700% Macomb – 14.1489% New Haven – 0.8391% Shelby – 9.7883% Sterling Heights – 30.8805% Utica – 1.6392% Washington – 2.7176%						
		Downing	Anderson, Eckstein & Westrick	\$ 2,020.00	Invoice #146303 - 10.09.23	Dropshaft Warranty Inspection - 08.28.23 - 09.24.23	\$ 4,622.50
		Astorino	Anderson, Eckstein & Westrick	\$ 53,018.00	Invoice #146970 - 11.06.23	Garfield Interceptor Pilot through 10.03.23	\$ 96.10
		Astorino	Aquasight	\$ 76,097.00	Invoice #810 - 11.01.23	Covid Testing - November 2023 - Grant	\$ 571,886.00
		Astorino	City of Mt. Clemens	\$ 18,368.11	Invoice #28006728 - 10.13.23	Monthly Sewage - September 2023	
		Astorino	Department of Roads	\$ 1,895.52	Invoice #302542A - 09.13.23	Fleet Fuel - August 2023	
		Astorino	Department of Roads	\$ 1,418.08	Invoice #302572A - 10.16.23	Fleet Fuel - September 2023	
		Astorino	DTE Energy	\$ 1,734.99	Invoice #23-705 - 10.03.23	Monthly Electric - 09.01.23 - 10.02.23 - CS12	
		Astorino	Fishbeck	\$ 2,910.50	Invoice #429457 - 11.01.23	As-Needed Engineering through 10.27.23 - Flow	\$ 46,471.00
		Astorino	Fishbeck	\$ 1,992.00	Invoice #429455 - 11.01.23	GLWA - As-Needed Engineering through 10.27.23	
		Downing	FK Engineering Associates	\$ 87,657.22	Invoice #20-058-040 - 10.17.23	Segment 6 CCA - 09.10.23 - 10.14.23	\$ (157,890.92)
		Downing	FK Engineering Associates	\$ 109,825.44	Invoice #20-152-034 - 10.17.23	Segment 5 CCA - 09.10.23 - 10.14.23	\$ (167,051.84)
		Downing	L. D'Agostini & Sons	\$ 551,236.66	Invoice #WWS-2022-001 App #8	Odor and Corrosion through 10.19.23	\$ 7,023,673.37
		Downing	Meadowbrook	\$ 50,440.00	Invoice #11752 - 10.30.23	OCIP SAFETY Quarterly Payment	
		Astorino	METCO	\$ 4,992.92	Invoice #2206C-01 - 11.03.23	Rehabilitation Pump #4 CPS through 10.29.23	\$ 85,234.60
		Astorino	METCO	\$ 2,752.60	Invoice #2206B-09 - 11.03.23	CPS Electrical Room AC CCA through 10.29.23	\$ 90,227.52
		Astorino	NTH Consultants	\$ 27,603.52	Invoice #634020 - 10.06.23	2023 Interceptor Inspection through 09.29.23	\$ 28,619.48
		Downing	Oscar Renda Contracting	\$ 3,223,871.41	Invoice #WWS-2020-007 App 38 - 10.28.23	Romeo Arm Segment 5 Lining through 10.31.23	\$ 7,424,885.48
		Downing	Ric-Man Construction	\$ 987,345.00	Invoice #WWS-2021-002 App 26 - 10.24.23	Segment 6 Rehabilitation through 10.20.23	\$ 2,785,059.37
		Astorino	Taplin Group	\$ 149,694.05	Invoice #APP 2 - 10.31.23	2023 Interceptor Inspection through 09.21.23	\$ 563,374.43
		Downing	Tetra Tech	\$ 33,649.68	Invoice #52147769 - 10.25.23	Odor and Corrosion CCA through 09.29.23	\$ 627,389.85
		Astorino	Verizon	\$ 1,397.74	Invoice #9945162996 - 09.23.23	Monthly Cellular - 08.24.23 - 09.23.23 (Eq. Fund)	
		Astorino	Verizon	\$ 728.77	Invoice #9945162996 - 09.23.23	Monthly Cellular - 08.24.23 - 09.23.23	
	<u>CPS</u>		Astorino	\$ 2,751.69	Invoice #23-812 - 10.03.23	Monthly Water - September 2023	
			Astorino	\$ 808.50	Invoice #23488 - 09.30.23	HiLo Charging Station Repairs	
			Astorino	\$ 2,101.20	Invoice #WO90023091-3 - 10.16.23	3rd Qtr Maintenance	
			Astorino	\$ 47,451.00	Invoice #23-1717 - 10.30.23	CPS Plug Valve Replacement	\$ 31,035.00
<u>METERS</u>		Astorino	\$ 12,810.00	Invoice # App 7 - 10.09.23	Meter Maintenance - 09.01.23 - 09.30.23	\$ 394,195.00	

MACOMB INTERCEPTOR DRAINAGE DISTRICT
10/11/2023 - 11/7/2023

<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>
NGI		Astorino	Kennedy Industries	\$ 881.50	Invoice #637461 - 07.18.23	Pump Repairs	
SCADA		Astorino	Colville Electric	\$ 6,131.65	Invoice #23495 - 09.30.23	SCADA Server Rack Replacement	
		Astorino	Colville Electric	\$ 6,308.75	Invoice #23496 - 09.30.23	SCADA Server Rack Replacement	
		Astorino	Colville Electric	\$ 2,329.11	Invoice #23497 - 09.30.23	SCADA Server Rack Replacement	
		Astorino	Colville Electric	\$ 1,693.39	Invoice #23498 - 09.30.23	SCADA Server Rack Replacement	
		Astorino	Colville Electric	\$ 807.15	Invoice #23499 - 09.30.23	SCADA Server Rack Replacement	
		Astorino	Colville Electric	\$ 1,180.00	Invoice #23500 - 09.30.23	Cement Pad for Server Cabinet	
		Astorino	Verizon	\$ 1,037.38	Invoice #9945162996 - 09.23.23	Monthly Cellular - 08.24.23 - 09.23.23	
		Total		\$ 5,476,940.53			

Budget to Actual
MIDDD
As of Oct 31, 2023 = 33%

DESCRIPTION	2024 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	49,276,790		16,427,203	32,849,587	33.3%
OMID O&M	4,379,020		1,459,673	2,919,347	33.3%
Settlement	100,000			100,000	0.0%
Reimbursements	150,000		71,725	78,275	47.8%
PY Revenue-Fund Balance	20,907,890			20,907,890	0.0%
Reimb-Local Communities	17,717,200		5,905,733	11,811,467	33.3%
State Grant-ARPA Seg 5 & 6	-		6,902,903	-	0.0%
COVID Grant	345,630		145,889	199,741	0.0%
Interest	400,000			400,000	0.0%
<i>Total Revenue Accounts</i>	93,276,530	-	30,913,126	69,266,307	33.1%
EXPENSE ACCOUNTS					
GLWA-OMID	49,276,790		16,427,203	32,849,587	33.3%
OMID O&M	4,379,020		1,459,673	2,919,347	33.3%
Public Works Wastewater Disposal Division	1,984,020		5,774	1,978,246	0.3%
Office Operations/Insurance	406,450		19,546	386,904	4.8%
SCADA	117,260		29,042	88,218	24.8%
Engineering					
Replenish reserve from CPS refunding	618,680			618,680	0.0%
As Needed Engineering	200,000		22,548	177,452	11.3%
Annual Meter Dye Testing	50,000			50,000	0.0%
Data Review-Aquasight	100,000			100,000	0.0%
Odor and Corrosion Construction/CCA	811,040		1,245,759	(434,719)	153.6%
Covid Testing 2023-Grant Funded	340,630		145,889	194,741	42.8%
General Construction/Engineering Contingency-All projects	2,650,000			2,650,000	0.0%
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	75,000			75,000	0.0%
Level Sensors/Pressure/H2S-Meters	261,200			261,200	0.0%
2023 Drop Shaft Rehab Design, Construction, & CCA	2,400,000		2,020	2,397,980	0.1%
Odor and Control-Construction	8,333,780		1,449,734	6,884,046	17.4%
Segment 6 Construction Administration (ARPA)			1,041,858	(1,041,858)	
Segment 6 Construction/CCA (ARPA)			2,464,361	(2,464,361)	
Segment 5 Construction Admin (ARPA)			366,433	(366,433)	
Segment 5 Construction (ARPA)			10,380,435	(10,380,435)	
Legal Services	75,000		1,510	73,490	2.0%
Clintondale PS O&M	786,890		263,335	523,555	33.5%
NGI O&M	88,500		25,775	62,725	29.1%
Meters O&M	189,400		84,907	104,493	44.8%
Control Structures and Pump Station O&M	178,930		700	178,230	0.4%
Biofilter O&M	19,800		406	19,394	2.1%
Contribution Life Cycle Reserve	184,300			184,300	0.0%
Interceptor O&M	18,614,210		177,777	18,436,433	1.0%
Stormwater Pump Stations	50,000		16,667	33,333	33.3%
Sewage Disposal Charges - Mt. Clemens	410,000		65,007	344,993	15.9%
Debt Service - Revenue Bonds	675,630		225,210	450,420	33.3%
<i>Total Expense Accounts</i>	93,276,530	-	35,921,569	57,354,961	38.5%

	O&M Balance 6/30/2023	O&M	Total 10/31/2023
Cash - Operating	59,727,429	(5,008,442)	54,718,987
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		30,913,126	30,913,126
Expenditures		35,921,569	35,921,569
			0
Equity*	59,727,429		54,718,987

Detail of 2023 Equity*

Reserve at 6/30/2023	20,862,516	PLC Equipment Replacement	100,000
Life Cycle Reserve	1,237,460	Improvement to Hydraulic Cylinder	120,333
General Construction/Engineering Contingency-All projects	450,000	Grouting	3,926,770
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	75,000	Interceptor Inspections	1,714,481
Level Sensors/Pressure/H2S-Meters	256,230	Intercept Clean/Sediment Removal	3,550,000
Drop Shaft Rehab Design	2,400,000	Segment 5	14,064,063
Odor and Corrosion Construction/CCA	7,803,213	Segment 6	3,003,560
CPS Electrical Room AC	63,803	Drain Valve For Force Main	100,000