

MARTIN SANITARY DIVERSION DRAIN
INTRA-COUNTY DRAINAGE BOARD
JULY 8, 2024
10:00 A.M.
AGENDA

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

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

**Call in Number: 1-917-933-5524
Passcode: 576 793 15#**

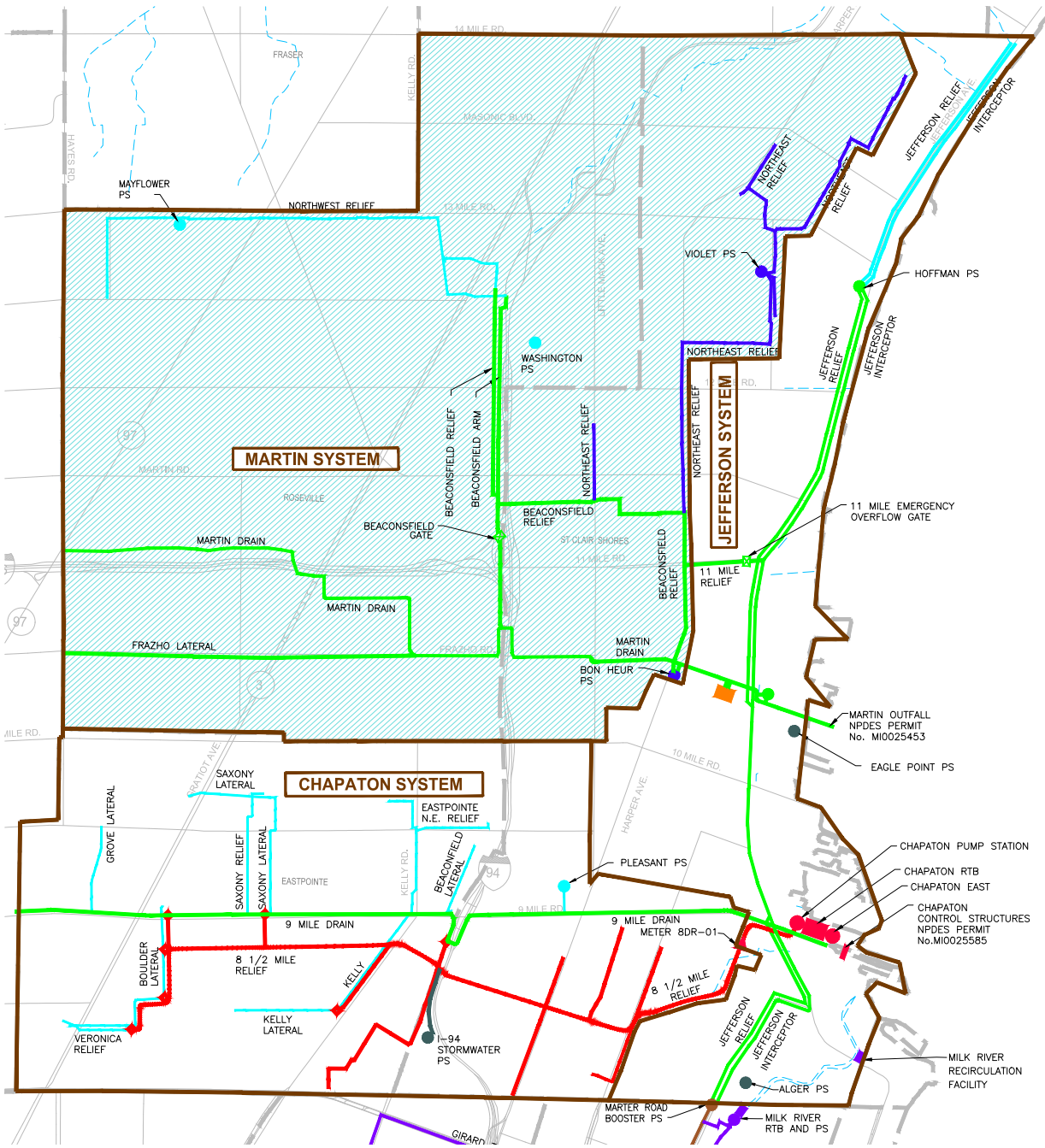
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1. Call of meeting to order and roll call	
2. Approval of Agenda for July 8, 2024	
3. Approval of Minutes for June 10, 2024	3
4. Public Participation	
5. Project & Operations Update – Vince Astorino	6
6. Rain Barrel Pilot Program – Candice Miller	8
7. Consideration for approval of invoices (see attached)	10
8. Financial Report – Bruce Manning	11
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.

MARTIN 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
- RETENTION TREATMENT BASIN
- GRAVITY INTERCEPTOR
- OVERFLOW POINT

An adjourned meeting of the Intra-County Drainage Board for the **MARTIN SANITARY DIVERSION DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on June 10, 2024, at 10:03 A.M.

PRESENT: Candice S. Miller, Chair
Bryan Santo, Member
Harold Haugh, Member

PRESENT VIA TELECONFERENCE: Jess Johnston, Sterling Heights DPW

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Steve Duchane, Community Services Coordinator; Bruce Manning, Finance Manager; Pamela Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor; Sarah Lucido, Board of Commissioners; Joe Romano, Board of Commissioners; Don Van Syckel, Board of Commissioners

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of May 13, 2024 were presented. A motion was made by Mr. Santo, supported by Mr. Haugh 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 provided an update that Martin had two wet weather events. The first spill was on May 27th. We had 2.48 inches of rain and discharged 28.8 million gallons. The water quality e-Coli numbers were excellent at only 5 counts. The second spill was on May 29th, with 0.9 inches of rain, and we discharged 3.1 million gallons, water quality numbers were at 4 counts. EGLE permits a maximum of 300 counts. Ms. Miller said that this is significant because Oakland County had a spill of over 120 million gallons last week at George W. Kuhn retention treatment basin and their e-coli counts were over 1,100. In addition, last Friday, Oakland County notified our office that they had another small spill by their standards of around 3.5 million gallons, but their e-coli numbers for that spill were 77,000! Keep in mind that they close beaches at 300 counts. The George W. Kuhn is the largest retention basin in the State of Michigan that dumps on a neighbor. This is dangerous to human health, it violates the Clean Water Act, and it violates their State permit with EGLE.

There is no construction activity at this time. We are still waiting on the Army Corps for the Green Infrastructure grant work to start.

A motion was made by Mr. Santo, supported by Mr. Haugh to receive and file the project and operations update as presented.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino presented on the Martin Improvement project. There are multiple projects identified within the capital improvement plan (CIP) that will be worked into this project including; replacement of the dewatering gate which is original to the facility, rehabilitation of the dry weather and drain underground vaults, demolition of the old flushing system, installation of new underground electrical conduits, chemical grouting of infiltration, blower and ductwork replacement, equipment hatch cover replacement, equipment crane and trolley replacement/rehab, crane and trolley rehab/replacement, access hatch replacement around the basin, and new TRC sampling pump installations around the basin. We received 3 bids and went with the lowest bidder which was Reliance Building Company.

A motion was made by Mr. Santo, supported by Mr. Haugh to approve the bid from Reliance Building Company for \$3,369,388.65 for the Martin RTB Improvements project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoice totaling \$659.98 to the board for review and approval.

A motion was made by Mr. Haugh, supported by Mr. Santo to approve the invoice as presented.

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Haugh, supported by Mr. Santo that the meeting of the Martin Sanitary Diversion Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 10:39 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 June 10, 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: 6/10/2024



To: Martin Sanitary Diversion Drainage District Board Members

CC: File

From: Vincent Astorino, Operations Director

Date: July 8, 2024

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

The following provides a status update for construction work completed within the Martin Sanitary Diversion Drain District (MSDDD) for the previous month.

Wet Weather Operations

Wet Weather Event: June 20, 2024

Rainfall: 1.72 inches

Treated Discharge Volume: 15.1 MG

Water Quality Numbers: 6 cts / 100 ml geometric mean (Permit maximum is 300 cts/ml.)

Description: No issues during this event

Martin RTB Improvements Project

Contractor: Reliance Building

Engineering Consultant: Fishbeck

Project Description:

The project consists of multiple items throughout the facility. A general list of items is listed below.

- Replacement of the Martin RTB dewatering gate which is original to the facility.

- Rehabilitation of the dry weather and drain underground vaults.
- Demolition of the old flushing system which includes pipe and pump removal along with properly abandoning the old underground flushing chambers.
- Installation of new underground electrical conduits to abandon old failing conduits.
- Chemical grouting of infiltration within the basement of the Martin building.
- Martin RTB blower and ductwork replacement.
- Equipment hatch cover replacement.
- Equipment crane and trolley replacement/rehab.
- Access hatch replacements around the RTB.
- New TRC sampling pump installations around the RTB.

Significant project tasks that have occurred over the past month:

1. Working with the contractor to execute the contract.
2. Construction Activities per Update Period:
 - No construction activities at this time.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$3,369,388.65
Total Spent to Date	Pay Apps. #	\$0.00
Remaining Budget		\$3,369,388.65

Design Projects

- USACE Green Infrastructure Grant
 - Have started the agreement process with USACE for this \$400,000 project with USACE covering \$300,000 of that. The \$100,000 match to be provided by MSDDD has already been budgeted.
 - USACE has started working on scope for the project. No update at this time.



Macomb County Public Works Commissioner Candice S. Miller

Macomb County Public Works 2024 Rain Barrel Pilot Program

Executive Summary

The Macomb County Public Works Office continues to make steady progress with projects that have significantly reduced Combined Sewer Overflows (CSOs) to Lake St. Clair. This office has reduced CSOs in the 8½ Mile Drainage District (Chapaton) by 75%. By year end, a project will be under contract to reduce CSOs at the Martin Retention Treatment Basin by 50%. Engagement of residents to reduce the amount of stormwater from individual properties in a combined sewer district can also work toward reducing CSOs and runoff to surface waters. Homeowners can do their part by reducing discharges by utilizing green infrastructure, including the use of rain barrels.

With funding from the Southeast Macomb County Wastewater Disposal System (SEMCWDS), the City of Roseville has been selected for a pilot rain barrel program. Roseville is the largest community in the Martin RTB District, which now experiences most of the overflow events due to the success at Chapaton. The City of St. Clair Shores has already established a rain barrel program. Roseville residents will have an opportunity to receive one rain barrel and installation kit per household. In addition to further reducing CSOs, rain barrels will help save residents on their outdoor watering cost while also saving the community from having to pay GLWA to treat the stormwater.

Public Works and the City of Roseville from its Public Works location on Calahan Road will coordinate pickup of 200 rain barrels and kits, rain barrel stands and mosquito dunks by Roseville residents. The project partner, MI Rain Barrel, has experience supporting and managing rain barrel events with countless municipalities in the past and brings a range of skills in support of technical, financial, and educational assistance.

The rain barrel kits include a 58-gallon rain barrel with a brass spigot installed and includes a brass overflow fitting, plastic mesh screen for the lid, as well as a white plastic 2x3" flex-elbow rainwater diverter for their downspout, hardware, and instructions, a 6-pack of mosquito dunks

and a rain barrel stand. The cost for the combination of the three products referred to as the Rainwater Warrior starter combo is \$180 each.

In cooperation with Public Works and Roseville, MI Rain Barrel will assist with distributing instructional materials efficiently to residents throughout the city including appearing at public education events and respond to calls for information.

Public Works and the City will:

- Support planning efforts and event organization.
- Communicate with residents to share event information and instructions and where to pick up their rain barrel kits.
- Support the project in ways of providing personnel to help answer mirainbarrel and residents' questions.
- Provide personnel to unload the truck upon delivery at the Roseville location.

Statistics from similar programs involving MI Rain Barrel indicate that 900,000 gallons of rainwater would be diverted from the sewer system annually. This is also water that will not contribute to stormwater runoff, a double win for the environment. The proposed pilot program of 200 barrels will over the course of a year save around 900,000 gallons of water, the equivalent of 2 ½ Olympic-sized swimming pools.

It is projected that the rain barrels will be available by the end of this year for residential pickup.

Public Works Commissioner Candice Miller may expand the program county-wide next year based on its success and funding from the Macomb County Board of Commissioners.

MARTIN SANITARY DIVERSION
06/20/2024 - 07/02/2024

<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>
Martin Sanitary Diversion Drain	Chapter 20 Roseville - 78.09% St. Clair Shores - 21.91%	Astorino	DTE Energy	\$ 657.84	Invoice #24-400 - 06.19.24	Monthly Electric - 05.17.24 - 06.17.24	\$ 174.20
		Astorino	Fishbeck	\$ 4,775.75	Invoice #438200 - 06.13.24	RTB Improvements - Design - Final	
		Astorino	JCI Jones Chemicals	\$ 10,809.25	Invoice #942055 - 06.06.24	Hypochlorite Solution	
		Astorino	Swan Analytical	\$ 1,287.38	Invoice #CD10012856 - 06.04.24	Reagents	
		Astorino	The Macomb Group	\$ 545.20	Invoice #7024759 - 03.04.24	Speciality Hose	
Total			\$ 18,075.42				

YTD Budget

Fund: Martin Sanitary Diversion

As of Fiscal Period: Oct 1, 2023-June 30, 2024 (75%)

DESCRIPTION	2024 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Investment Inc-Interest	28,000		23,731	4,269	84.8%
Reimb-Local Communities	1,113,520		1,113,520	-	100.0%
Federal Earmark	1,000,000			1,000,000	0.0%
PY Revenue-Fund Balance	1,188,490			1,188,490	0.0%
<i>Total Revenue Accounts</i>	3,330,010	-	1,137,251	2,192,759	34.2%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	-	100.0%
Dues, Training, Conf, Subs.	3,380		820	2,560	24.3%
<u>Engineering</u>					
-Martin Improvement Project	2,402,210		23,876	2,378,334	1.0%
-Martin Electrical Improvements	309,000			309,000	0.0%
-As Needed Engineering	57,000		118	56,882	0.2%
-USACE Green Infrastructure Project(Reserves)	-		100,000	(100,000)	100.0%
-Misc Sewer Repairs	20,000			20,000	0.0%
Equipment	6,850		6,621	229	96.7%
Operating Supplies	72,280		39,815	32,465	55.1%
Other Professional Svcs	12,200		5,087	7,113	41.7%
Personnel Services	242,930			242,930	0.0%
Repair & Maintenance	134,800		29,792	105,008	22.1%
Contribution to SCADA Reserve	5,810			5,810	0.0%
Scada System	11,410		2,431	8,979	21.3%
Utilities	46,140		10,558	35,582	22.9%
<i>Total Expense Accounts</i>	3,330,010	-	225,118	3,104,892	6.8%

	O&M Balance 9/30/2023	O&M	Total 6/30/2024
Cash - Operating	1,915,814	912,133	2,827,947
Assets			0
Liabilities			0
Revenues		1,137,251	1,137,251
Expenditures		225,118	225,118
Equity	1,915,814		2,827,947

Detail of 2023 Equity

Misc Sewer Repairs	20,000
USACE Green Infrastructure Project	100,000
SCADA Reserves	-
As Needed Engineering	27,000
Martin Improvement Project	1,042,529
Capital Reserve	726,285