

Miller
Santo
Haugh

MARTIN SANITARY DIVERSION DRAIN
INTRA-COUNTY DRAINAGE BOARD
NOVEMBER 8, 2021
10:00 A.M.
AGENDA

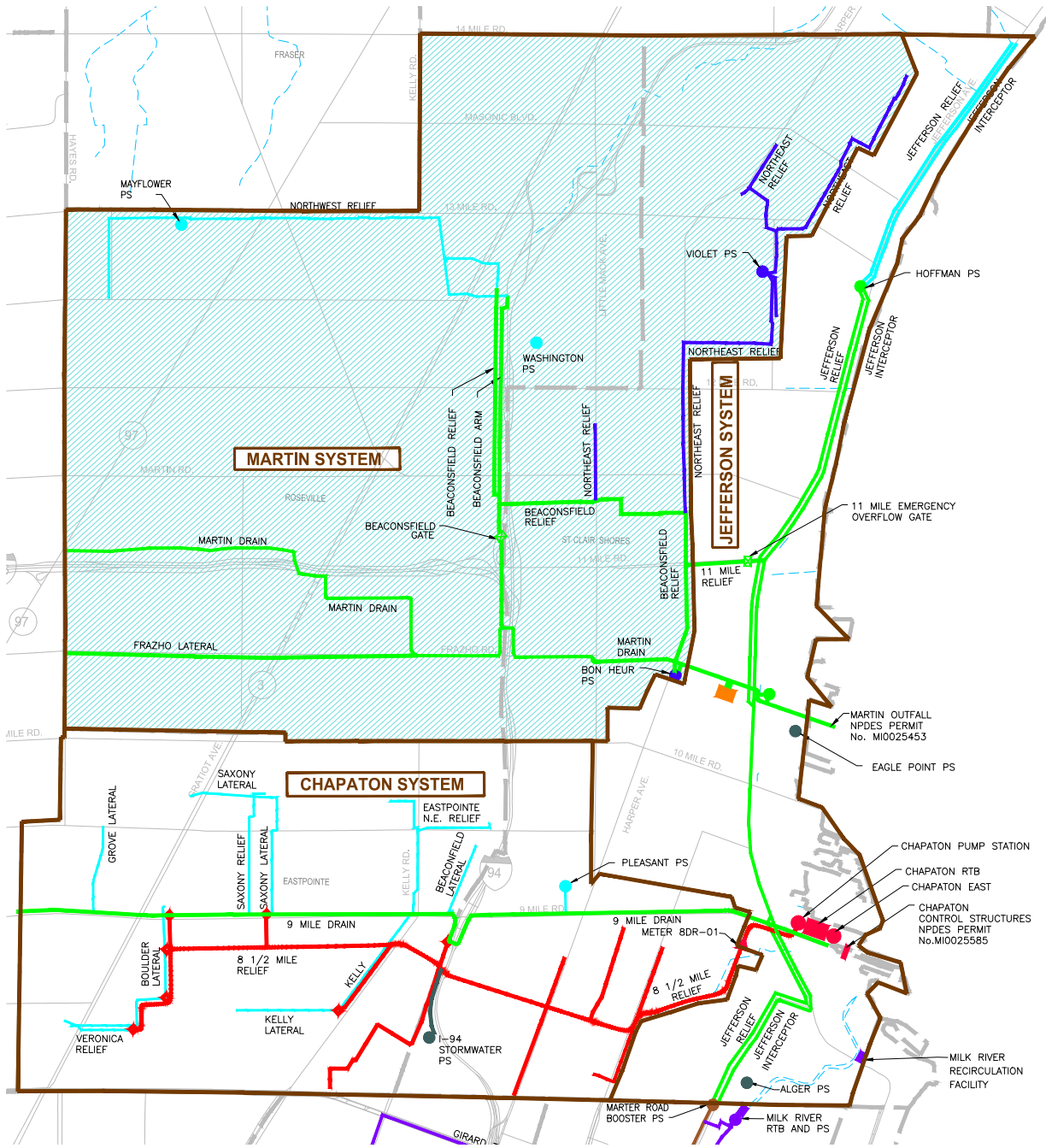
**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION**

**Call in Number: 1-575-942-2096
Access Code: 517 329 462**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for November 8, 2021	
3. Approval of Minutes for October 18, 2021	3
4. Public Participation	
5. Project Update – Vince Astorino	5
6. Consideration for approval of invoices (see attached)	8
7. Financial Report – Bruce Manning	9
8. 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, and virtually per the State Public Act 254 of 2020, on October 18, 2021, at 10:01 A.M.

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

ALSO PRESENT: Veronica Klinefelt, Don VanSyckel, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Jeff Bednar P.E., Environmental Resources Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Dan Acciavatti, Deputy Government Relations, Macomb County Public Works

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 September 13, 2021 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 updated the board that there was a large rain event on September 22nd. It was spread out in duration with 4.87 inches of rain resulting in a treated discharge of 118 million gallons.

The disinfection project final closeout will be in November, and there will be an update in November on the flushing project due to start soon.

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

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$47,417.59 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0

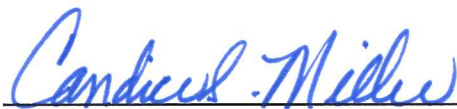
A motion to receive and file the financial report given by Mr. Manning was made by Mr. Santo and supported by Mr. Haugh.

Adopted: YEAS: 3
NAYS: 0

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

Adopted: YEAS: 3
NAYS: 0

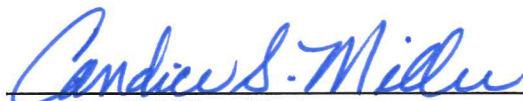
The meeting was adjourned at 10:09 a.m.



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 taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on October 18, 2021 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: 10/18/21



Candice S. Miller

Public Works Commissioner
Macomb County

To: Martin Sanitary Diversion Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: November 8, 2021

Subject: Construction Projects Status Updates for the November 2021 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 1: October 25, 2021

Rainfall: 2.34 inches

Treated Discharge Volume: 50.4 MG Total

Water Quality Numbers: 10 cts / 100 ml geometric mean (Permit maximum is 300 cts/ml)

Description: During the start of this event we experienced an issue with the disinfection piping sending chlorine to the wrong location within the basin. This issue was found before the basin filled and the operators were able to address it without experiencing any violations with our treated discharge. After the event we were able to trace down that the contractor for the disinfection project had changed some of the valves at the pipe discharge point during their punch list work. This has been corrected now and there were no other operational issues during this event.

Wet Weather Event 2: October 29, 2021

Rainfall: 1.02 inches

Treated Discharge Volume: 23.3 MG Total

Water Quality Numbers: 12 cts / 100 ml geometric mean (Permit maximum is 300 cts/ml)

Description: During this event, the operators experienced a power outage at the Martin facility. The generator on site ran as designed and they were able to get with DTE to restore power to the facility. No other operational issues occurred.

Chapaton & Martin Disinfection Replacement Project

Contractor: Weiss Construction

Engineering Consultant: Wade Trim

Project Description:

This project consists of the complete replacement of the disinfection systems at Chapaton and Martin. Macomb County Public Works Office (MCPWO) staff identified that a critical capital improvement need for the Chapaton and Martin RTB's was the replacement of the disinfection systems. These are systems that were installed in approximately 1978 and have exceeded the end of their useful life. MCPWO staff has worked diligently to keep the existing disinfection pumps in service as they are prone to failure and require expensive, difficult to obtain parts. The project involves all disinfection chemical feed pumps, new electrical controls and VFDs, and new disinfection and sample piping within the Chapaton RTB.

Significant project tasks that have occurred over the past month:

1. Completed miscellaneous punchlist items
2. Prepared and executed final balancing change order and pay application

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$995,925.00
Change Order #1	12/16/20	(\$16,337.83)
Change Order #2	04/28/21	(\$21,333.02)
Change Order #3	10/28/21	(\$6,863.34)
Revised Contract Amount		\$951,390.81
Total Spent to Date	Pay Apps #1-10	\$951,390.81
Remaining Budget		\$0.00

Martin Flushing Improvements Project

Contractor: L. D'Agostini & Sons, Inc.

Engineering Consultant: AEW

Project Description:

This project consists of the installation of two small sluice gates and a concrete weir within the Martin Retention Treatment Basin (RTB) to aid in flushing sediment and debris. The existing piped flushing systems at the facility are largely abandoned and require the use of storm water or lake water as the water source. This adds cost since these sources ultimately become metered flow. In 2016, MCPWO obtained approval from EGLE for a pilot program to use dry-weather flow in the Martin Drain as the flushing water source. This program involves installing temporary stoplogs within the influent channel of the RTB to divert flow through the three main zones within the RTB. This program was successful but requires manned-entries to install and reconfigure the stoplogs. The completion of this project will provide remotely-operated gates and a passive weir to direct flow where needed.

Significant project tasks that have occurred over the past month:

1. Executed Contract Books and Notice to Proceed
2. Began reviewing initial submittals on long-lead items

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount	10/19/21	\$610,049.34
Change Order	-	-
Revised Contract Amount	-	-
Total Spent to Date	-	-
Remaining Budget		\$610,049.34



Figure 1 – Crews re-configuring temporary stoplogs



Figure 2 – Crews re-configuring temporary stoplogs

<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	Colville Electric Co., LLC	\$ 622.50	Invoice #210532 - 10.26.21	Actuator Repair	
		Astorino	Colville Electric Co., LLC	\$ 1,467.38	Invoice #210537 - 10.26.21	Diversion Gate Chamber Repair	
		Manning	County of Macomb	\$ 32,702.41	Invoice #AR210970 - 9.28.21	Personnel/Operating Expense 2nd Quarter 2021	
		Astorino	De-Cal, Inc.	\$ 546.20	Invoice #WO90021161-3 - 10.14.21	3rd Quarter PM	
		Astorino	DTE Energy	\$ 609.80	Invoice #S2FYR-V1VHQ - 10.18.21	Monthly Electric - 9.17.21 - 10.15.21	
		Astorino	Fahey Schultz Burzych Rhodes	\$ 504.50	Invoice #61825 - 10.6.21	Petition Process	
		Astorino	Fishbeck	\$ 30,284.39	Invoice #404867 - 10.6.21	In-System Storage through 10.1.21	\$ 287,874.56
		Astorino	JCI Jones Chemicals Inc.	\$ 4,584.30	Invoice #870910 - 10.27.21	Hypochlorite Solution	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12445 - 10.19.21	Abandoned Control Wire Removal - 9.1.21	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12448 - 10.19.21	Abandoned Control Wire Removal - 9.2.21	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12449 - 10.19.21	Abandoned Control Wire Removal - 9.3.21	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12450 - 10.19.21	Abandoned Control Wire Removal - 9.7.21	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12451 - 10.19.21	Abandoned Control Wire Removal - 9.8.21	
		Astorino	Rotor Electric	\$ 2,576.38	Invoice #12452 - 10.19.21	Abandoned Control Wire Removal - 9.10.21	
		Astorino	Rotor Electric	\$ 1,900.10	Invoice #12453 - 10.19.21	Abandoned Control Wire Removal - 9.9.21	
		Astorino	Weiss Construction	\$ 19,567.81	Invoice #PAY EST #10 - 10.28.21	Disinfection Improvements through 10.28.21 - Final	
		Total			\$ 104,866.27		

YTD Budget

Fund: Martin Sanitary Diversion

As of Fiscal Period: Oct 1, 2021-Oct 31, 2021(8%)

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Investment Inc-Interest	2,400			2,400	0.0%
Contribution from Community	600,000			600,000	100.0%
Reimb-Local Communities	1,011,270		505,635	505,635	50.0%
PY Revenue-Fund Balance	1,183,960			1,183,960	0.0%
<i>Total Revenue Accounts</i>	<i>2,797,630</i>	<i>-</i>	<i>505,635</i>	<i>2,291,995</i>	<i>18.1%</i>
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	4,830			4,830	0.0%
Engineering					
-As Needed Engineering	25,000			25,000	0.0%
-Misc Sewer Repairs	20,000				
-Flushing System Upgrades-Design,Const, and CCA	795,040			795,040	0.0%
-In System Storage-Design and CCA	1,218,000			1,218,000	100.0%
-Design Basin Equipment Hatch	9,950			9,950	0.0%
-In System Storage-Design Money from SEMSD	333,000			333,000	100.0%
New Equipment	5,120			5,120	0.0%
Operating Supplies	44,880		133	44,747	0.3%
Other Professional Svcs	8,750			8,750	0.0%
Personnel Services	199,390			199,390	0.0%
Repair & Maintenance	58,800		547	58,253	0.9%
Scada System	26,320		154	26,166	0.6%
Utilities	42,550		664	41,886	1.6%
<i>Total Expense Accounts</i>	<i>2,797,630</i>	<i>-</i>	<i>1,498</i>	<i>2,776,132</i>	<i>0.1%</i>

	O&M Balance 9/30/2021	O&M	Total 10/31/2021
Cash - Operating	1,778,677	504,137	2,282,814
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		505,635	505,635
Expenditures		1,498	1,498
Equity	1,778,677		2,282,814

Detail of 2021 Equity

Design Basin Equipment Hatch	9,950	SolarWinds-Net Mgt Software	1,940
Misc Sewer Repairs	20,000	Obsolete Wireless Backhaul Links	3,230
ISS SEMSD Contribution	359,439	Fiber Optic improvements	3,220
Flushing System Upgrades-Design, Const, CCA	807,127	Firewall Hard Design/Config	2,580
CCTV of Dewatering Line and Influent and Effluent Boxes	25,000	Parking Lot Resurface	15,000
SCADA Reserves	14,090		
Capital Reserves	487,101		