

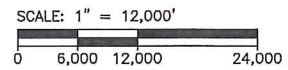
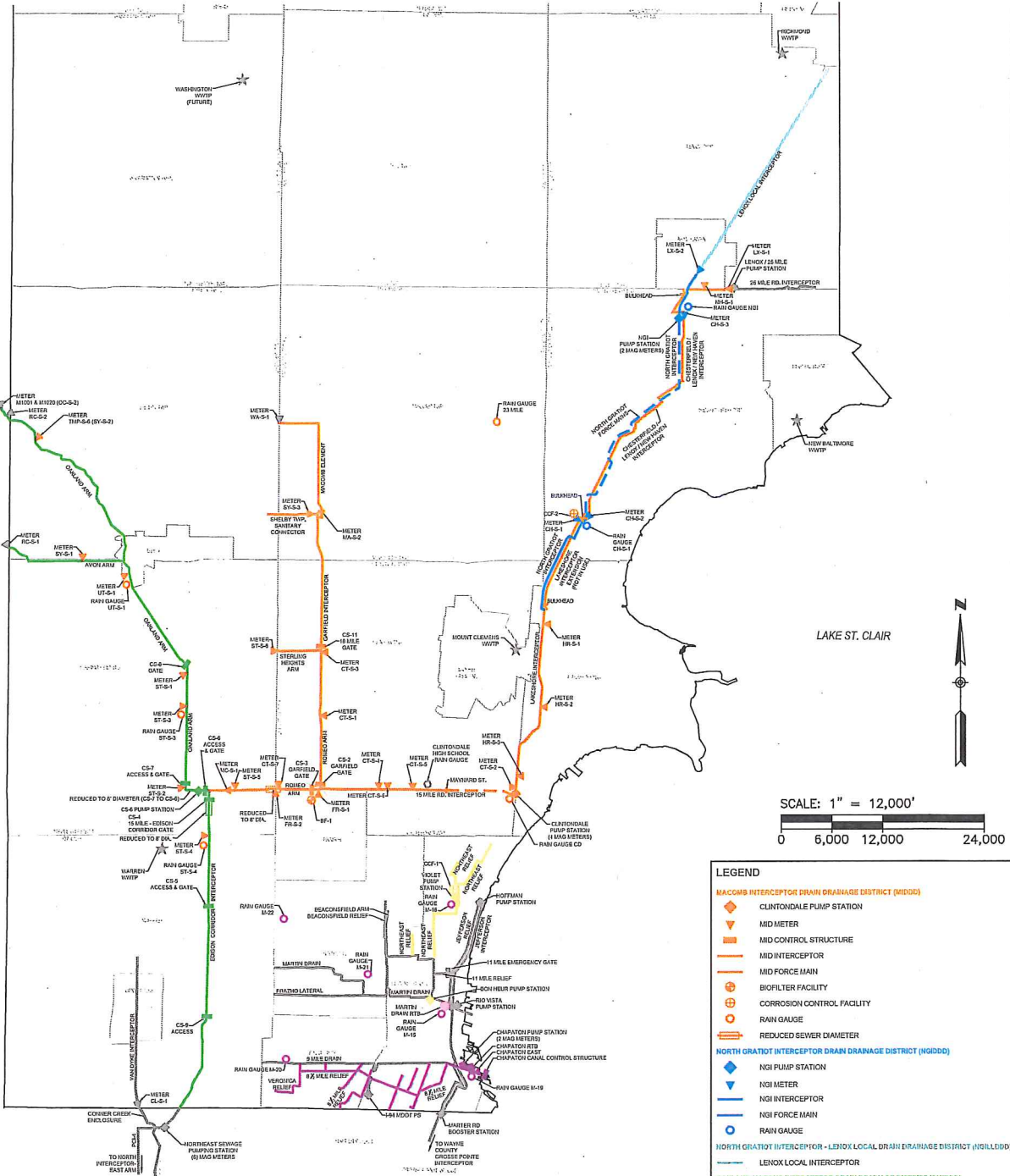
MARTIN SANITARY DIVERSION DRAIN
INTRA-COUNTY DRAINAGE BOARD
MAY 10, 2021
10:30 A.M.
AGENDA

NOTE: THIS MEETING WILL BE HELD BY TELECONFERENCE

Call in Number: 1-575-708-2723
Access Code: 474 776 139

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 10, 2021	
3. Approval of Minutes for April 12, 2021	3
4. Public Participation	
5. Project Update – Vince Astorino	5
6. SRF Project Plan Resolution – In-System Storage – Vince Astorino	7
Motion: To adopt the SRF Project Plan and designate the Chief Deputy Macomb County Public Works Commissioner, Brian Baker, as the authorized representative for all activities associated with the project	
7. Consideration for approval of invoices (see attached)	12
8. Financial Report – Bruce Manning	13
9. Adjourn	

MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDD)**
 - CLINTONDALE PUMP STATION
 - MID METER
 - MID CONTROL STRUCTURE
 - MID INTERCEPTOR
 - MID FORCE MAIN
 - BIOFILTER FACILITY
 - CORROSION CONTROL FACILITY
 - RAIN GAUGE
 - REDUCED SEWER DIAMETER
 - NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDD)**
 - NGI PUMP STATION
 - NGI METER
 - NGI INTERCEPTOR
 - NGI FORCE MAIN
 - RAIN GAUGE
 - NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (NGILLDD)**
 - LENOX LOCAL INTERCEPTOR
 - OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDD)**
 - CS-6 PUMP STATION
 - OMID METER
 - OMID CONTROL STRUCTURE
 - OMID INTERCEPTOR
 - REDUCED SEWER DIAMETER
 - 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
 - CHAPATON WEST PUMP STATION
 - CHAPATON RETENTION TREATMENT BASIN
 - CHAPATON CANAL CONTROL GATE
 - 8 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
 - SEMICONS INTERCEPTOR DRAIN DRAINAGE DISTRICT (SEMIDD)**
 - SEMICONS PUMP STATION
 - CORROSION CONTROL FACILITY
 - SEMICONS INTERCEPTOR
 - MARTIN SANITARY (WENSHAW) DRAINAGE DISTRICT (MSIDD)**
 - MARTIN DRAIN RETENTION TREATMENT BASIN
 - OTHER SYSTEMS**
 - PUMP STATION
 - METER
 - WWTP
 - INTERCEPTOR

Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



UPDATED: APRIL 2017

An adjourned meeting of the Intra-County Drainage Board for the **MARTIN SANITARY DIVERSION DRAIN** was held via telephone conference per the State Public Act 254 of 2020 due to the COVID-19 pandemic, on April 12, 2021, at 10:50 A.M.

PRESENT: Brian Baker, Acting Chair
Location: Clinton Township, MI

Bryan Santo, Member
Location: Mt. Clemens, MI

ABSENT: Harold Haugh

ALSO PRESENT: Don VanSyckel, Macomb County Board of Commissioners; Karen Czernel, Deputy, Jeff Bednar P.E., Environmental Resources Manager, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Macomb County Public Works; Stephen Saph Jr. – Nickel & Saph Insurance; Richard Amormino, Director of Public Works, Sebastian Previti, Supervisor, Washington Township

The meeting was called to order by the Acting Chair, Brian Baker. A motion was made by Mr. Santo, supported by Mr. Baker to approve the agenda as presented.

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of March 8, 2021 were presented. A motion was made by Mr. Santo, supported by Mr. Baker to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

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

Mr. Astorino updated the board that the Martin disinfection project has been on hold to finish Chapaton first and will now shift to Martin. The total residual chlorine project our team has been working on is complete which gives us the ability to pull samples directly out of the basin and test for chlorine so our team can be notified every 5 minutes via SCADA on chlorine levels.

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

Adopted: YEAS: 2
NAYS: 0

Mr. Baker updated the board that the ability to have virtual meetings has been extended through the end of the year if certain conditions are met.

A motion was made by Mr. Santo, supported by Mr. Haugh to adopt the resolution regarding electronic and telephonic meetings procedures.

The Chair presented the invoices totaling \$73,110.63 to the board for review and approval.

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

Adopted: YEAS: 2
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 10:55 a.m.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

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 April 12, 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.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

DATED: 4/12/21



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: May 10, 2021

Subject: Construction Projects Status Updates for May 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.

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. Installed new VFD cabinets to control new hose pumps

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)
Revised Contract Amount		\$958,254.15
Total Spent to Date	Pay Apps #1-5	\$666,757.35
Remaining Budget		\$291,496.80



Figure 1 – Two new VFD cabinets to power Hose Pumps



Candice S. Miller

Public Works Commissioner
Macomb County

To: Martin Sanitary Diversion Drainage District Board Members

CC: Brian Baker, Chief Deputy

From: Vincent Astorino, Operations & Flow Manager

Date: May 10, 2021

Subject: SRF Project Plan Board Resolution Recommendation

The Macomb County Public Works Office (MCPWO) has been diligently working to identify all funding opportunities possible for one potential upcoming Martin project. This project consists of installing two in-system storage devices within the Martin Drain to utilize storage within the pipe. The estimated storage volume is 5.2 million gallons additional by adding these devices. Outside of the potential grant opportunities we are looking to submit for a State Revolving Fund (SRF) loan which this year is a 1.875% and 20-year loan in the amount of \$4,256,000. This project has been presented to the board in March of 2021.

By submitting for this loan, the Martin Sanitary Diversion Drainage District is not required to take the loan or even the full amount of that loan. This project plan submission, if accepted, will put the drain district in the queue for funding at what is currently the lowest possible interest rate available on the market for these projects. There is also potential to receive funding through other sources if the State decides that they are going to fund "shovel-ready" SRF projects grant money.

This project plan was put together by Fishbeck through the as-needed contract. The DRAFT project plan was put out for public review starting on March 22, 2021 and was listed in the Macomb Daily. Copies of the plan were listed on the MCPWO website. On April 26, 2021, a public hearing was held which went through a presentation of the project. No members of the public were in attendance and no questions were sent to MCPWO. If approved today, the final project plan will be submitted by June 1, 2021. The results for funding and the SRF priority list should be published by the end of 2021.

The recommendation for the board is that Martin Sanitary Diversion Drainage District formally adopts said Project Plan and agrees to implement the selected alternative (Alternative 1). Be it further resolved, that the Chief Deputy Macomb County Public Works Commissioner, a position held by Brian Baker, is designated as the authorized representative for all activities associated with the project referenced above, including submittal of said Project Plan as the first step in applying to the State of Michigan for a revolving fund loan to assist in the implementation of the selected alternative.

Attachments: Board Resolution for Adoption of the Final Project Plan.

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

**A RESOLUTION ADOPTING A FINAL PROJECT PLAN
FOR WASTEWATER SYSTEM IMPROVEMENTS or
NPS POLLUTION CONTROL/STORMWATER IMPROVEMENTS AND
DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE**

WHEREAS, the Martin Sanitary Diversion Drainage District recognizes the need to make improvements to its existing wastewater treatment and collection system or its existing NPS pollution control/stormwater treatment system; and

WHEREAS, the Martin Sanitary Diversion Drainage District authorized Fishbeck to prepare a Project Plan, which recommends the construction of the Martin Drain In-System Storage Devices; and

WHEREAS, said Project Plan was presented at a Public Hearing held on April 26, 2021, and all public comments have been considered and addressed;

NOW THEREFORE BE IT RESOLVED, that the Martin Sanitary Diversion Drainage District formally adopts said Project Plan and agrees to implement the selected alternative (Alternative No. 1).

BE IT FURTHER RESOLVED, that the Chief Deputy Macomb County Public Works Commissioner, a position currently held by Brian Baker is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a revolving fund loan to assist in the implementation of the selected alternative.

Yeas:

Nays:

Abstain:

Absent:

I certify that the above Resolution was adopted by Intra County Drain Board for the Martin Sanitary Diversion Drainage District on _____.

BY: Candice S. Miller, Chair, Macomb County Public Works Commissioner

Signature

Date

Michigan Department of Environment, Great Lakes, and Energy
Gretchen Whitmer, Governor
Liesl Eichler Clark, Director

<http://www.michigan.gov/egle>

Clean Water Revolving Funds SRF/SWQIF Project Plan Submittal Form

Name of the Project Martin Sanitary Diversion Drainage District State Revolving Fund Project Plan	Applicant's Federal Employer Identification Number (EIN) 38-6004868
Legal Name of Applicant (The legal name of the applicant may be different than the name of the project. For example, a county may be the applicant for bonding purposes, while the project may be named for the particular village or township it serves.) Martin Sanitary Diversion Drainage District	Areas Served by this Project Counties <u>Macomb County</u> Congressional Districts <u>9</u> State Senate Districts <u>8 and 9</u> State House Districts <u>18 and 22</u>
Address of Applicant (Street, P O Box, City, State & Zip) 21777 Dunham Road, Clinton Township, MI 48306	Associated SAW Grant Number 1411-01
NPDES Permit Number MI0025453	Brief Description of the SRF/SWQIF Project – The loan will be used to construct 2 in-system storage devices within the Martin Drain to utilize storage within the pipe. The estimated storage volume is approximately 5.2 MG. The project will reduce the frequency and volume of CSO discharges and help improve the water quality of Lake St. Clair
Disadvantaged Community Determination <input type="checkbox"/> The applicant is requesting a disadvantaged community determination, and a completed <i>Disadvantaged Community Status Determination Worksheet</i> is attached.	
Estimated Total Cost of the SRF/SWQIF Project Total: \$5,873,400 SRF Request: \$4,256,000	SRF/SWQIF Construction Start Target Date Third Quarter 2022
Name and Title of Applicant's Authorized Representative Brian Baker Chief Deputy Macomb County Public Works Commissioner	
Address of Authorized Representative (if different from above)	Telephone 586-469-5325 E-Mail Address brian.baker@macombgov.org
Signature of Authorized Representative	Date
Joint Resolution(s) of Project Plan Adoption/Authorized Representative Designation is attached. check here <input type="checkbox"/>	

A final project plan, prepared and adopted in accordance with the Department's *Clean Water Revolving Funds (SRF and SWQIF) Project Plan Preparation Guidance*, must be submitted by July 1st in order for a proposed project to be considered for placement on a Project Priority List for the next fiscal year. Please send your final project plan with this form to:

WATER INFRASTRUCTURE FINANCING SECTION
FINANCE DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
P O BOX 30457
LANSING MI 48909-7957

Project Useful Life and Cost Analysis Certification Form

Project Information

Applicant Name: Martin Sanitary Diversion Drainage District - State Revolving Fund Project Plan

SRF Project to be Funded:

The loan will be used to construct 2 in-system storage devices within the Martin Drain to utilize storage within the pipe. The estimated storage volume is approximately 5.2 MG. The project will reduce the frequency and volume of CSO discharges and help improve the water quality of Lake St. Clair

Per Section 602(b)(13) of the Federal Water Pollution Control Act (FWPCA), all Clean Water State Revolving Fund (CWSRF) assistance recipients must certify that they have conducted the studies and evaluations described in 602(b)(13)(A) and (B), collectively known as a cost and effectiveness analysis.

- 1) The applicant has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is sought under the CWSRF; and
- 2) The applicant has selected, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of:
 - o constructing the project or activity;
 - o operating and maintaining the project or activity over the life of the project; and
 - o replacing the project or activity.
- 3) The applicant has completed a Project Useful Life analysis for the project or activity.
Attach appropriate documentation

I certify that requirements (1), (2), and (3) as checked above have been met.

Maria E. Sedki, PE

Name of Professional Engineer (Please Print or Type)



Signature of Professional Engineer

4/28/21

Date

Brian Baker, Chief Deputy Macomb County Public Works Commissioner

Name and Title of Authorized Representative (Please Print or Type)

Signature of Authorized Representative

Date

6-05-19

Disadvantaged Community Status Determination Worksheet

The following data is required from each municipality in order to assess the disadvantaged community status. Please provide the necessary information and return to:

Robert Schneider
Water Infrastructure Financing Section
Finance Division
P.O. Box 30457
Lansing, MI 48909-7957
Schneiderr@michigan.gov

If you have any questions, please contact Robert Schneider at 517-388-6466

Please check the box this determination is for:

DWRF SRF

1. Total amount of anticipated debt for the proposed project, if applicable.

\$257,154

2. Annual payments on the existing debt for the system.

\$0

3. Total operation, maintenance and replacement expenses for the system on an annual basis.

\$920,549

4. Number of "residential equivalent users" in the system.

See attached for breakdown by agency

For determinations made using anticipated debt, a final determination will be made based upon the awarded loan amount.

MARTIN SANITARY DIVERSION - 4/20/21 - 5/4/21

<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%	Manning	County of Macomb	\$ 61,277.04	Invoice #AR210129 - 2.8.21	Personnel/Operating Expenses 4th Quarter 2020			
		Astorino	Cummins Sales & Service	\$ 824.93	Invoice #S6-66007 - 4.1.21	Full Preventative Maintenance on Generator			
		Astorino	Cummins Sales & Service	\$ 647.37	Invoice #S6-66008 - 4.1.21	Generator Repair			
		Astorino	DTE Energy	\$ 922.87	Invoice #RH39V-74ZTZ - 4.20.21	Monthly Electric - 3.19.21 - 4.19.21	\$ 81,311.73		
		Astorino	Fishbeck	\$ 15,638.60	Invoice #399605 - 3.24.21	Flushing Design & SRF Project Plan			
		Downing	Nickel & Saph, Inc.	\$ 1,310.75	Invoice #21144 - 4.13.21	Insurance Renewal - 4.26.21 - 4.26.22			
		Astorino	Wade Trim	\$ 1,775.00	Invoice #2020779 - 4.27.21	Martin Disinfection Improvements - CCA	\$ 20,526.17		
		Astorino	Weiss Construction	\$ 1,426.50	Invoice #PAY EST #5 - 4.25.21	Martin Disinfection Improvements	\$ 291,496.80		
		Total			\$	83,823.06			

YTD Budget
Fund: Martin Sanitary Diversion
As of Fiscal Period: Oct 1, 2020-Apr 30, 2021(58%)

DESCRIPTION	2021		ACTUAL	REMAINING BUDGET	PCT UTILIZED
	FINAL BUDGET	ENCUMBERED			
REVENUE ACCOUNTS					
Investment Inc-Interest	4,500		530	3,970	11.8%
Reimb-Local Communities	920,550		920,550	-	100.0%
PY Revenue-Fund Balance	611,175			611,175	0.0%
Total Revenue Accounts	1,536,225	-	921,080	615,145	60.0%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	2,560			2,560	0.0%
Engineering					
-As Needed Engineering	18,725		15,474	3,251	82.6%
-Misc Sewer Repairs	20,000				
-Disinfection System Replacement	175,000		99,555	75,445	56.9%
-CCTV of Dewatering Line and Influent and Effluent Boxes	25,000		17,288	7,712	69.2%
-Design Flushing System Upgrades & First Flush Capture	865,000		5,421	859,579	0.6%
-Replace Drain Gate Hydraulic Accumulator ⁽¹⁾	-		11,036	(11,036)	100.0%
-Design Basin Equipment Hatch	9,950			9,950	0.0%
New Equipment	34,000		19,620	14,380	57.7%
Operating Supplies	48,640		5,350	43,290	11.0%
Other Professional Svcs	11,000		5,377	5,623	48.9%
Personnel Services	205,200		36,326	168,874	17.7%
Repair & Maintenance	28,740		16,858	11,882	58.7%
Scada System	46,260		20,138	26,122	43.5%
Utilities	40,150		26,537	13,613	66.1%
Total Expense Accounts	1,536,225	-	278,980	1,237,245	18.2%

	O&M Balance 9/30/2020	O&M	Total 4/30/2021
Cash - Operating	1,123,849	642,100	1,765,949
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		921,080	921,080
Expenditures		278,980	278,980
Equity	1,123,849		1,765,949

Detail of 2020 Equity

Design Basin Equipment Hatch	9,950
Replace Drain Gate Hydraulic Accumulator ⁽¹⁾	33,844
As Needed Engineering	18,725
Design Flushing System Upgrades & First Flush Capture	375,000
CCTV of Dewatering Line & Influent and Effluent Boxes	25,000
Disinfection System Replacement	129,501
TRC Equipment	7,500
Pickup Truck	3,900
SCADA Reserves	16,913
Capital Reserves	503,516