

AGENDA

Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

July 15, 2020 – 11:30 a.m.
Via GoToMeeting

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development

Candice Miller, Macomb County Public Works Commissioner

Jim Nash, Oakland County Water Resources Commissioner

2. Motion to approve the meeting agenda for July 15, 2020
3. Motion to approve the Drainage District Board Meeting Minutes from June 17, 2020
4. Public Comment
5. Presentation regarding the Odor and Corrosion Control System Project
6. Motion to approve the following Engineering Work Order:

NTH for Construction and Materials Testing Services on the Northeast Sewage Pumping Station and Electrical System Upgrades Project
7. Motion to approve the following Change Order:
 - a. Change Order No. Seven for CSM Mechanical, LLC for the NESPS Odor/Corrosion Control Facility for a net increase in the amount of \$25,273.58
 - b. Change Order No. Four for Walsh Construction for Electrical Upgrades for a net increase in the amount of \$8,355,062
8. Motion to approve the following Construction Estimates:
 - a. Construction Estimate No. 11 for CSM Mechanical, LLC in the amount of \$132,234.61
 - b. Construction Estimate No. 1 for CSM Mechanical, LLC in the amount of \$93,227.50 and a transfer of \$10,252.50 to the Oakland County Treasurer
9. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS, NI-EA
10. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing
11. Motion to approve the following Invoices totaling \$496,561.58:
 - a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
 - 1) Labor/Fringes/Non-Direct Labor Factor

	• Segment 4		\$ 3,768.60
	• Segment 4 NESPS Gatehouse		\$ 457.08
	• Segment 4 NESPS Odor Corrosion Study		\$ 14,418.45
2)	Equipment Charges		
	• Segment 4		\$ 361.68
	• Segment 4 NESPS Gatehouse		\$ 16.44
	• Segment 4 NESPS Odor Corrosion Study		\$ 2,101.94
3)	Mileage		
	• Segment 4		\$ 879.75
b)	Applied Science, Inc.		
	Invoice No. 17	NESPS M&E	\$ 78,077.07
c)	CDM Smith		
	Invoice No. 90102210	O&M	\$ 3,002.35
d)	D'Angelo Brothers		
	Invoice No. 6532-WRCOMID	O&M	\$ 5,709.56
e)	Dickinson Wright		
1)	Invoice No. 1482413	O&M	\$ 840.00
2)	Invoice No. 1482474	O&M	\$ 9,625.00
f)	Inland Lakes Landscaping Corp.		
1)	Invoice No. 24616	O&M	\$ 500.00
2)	Invoice No. 24617	O&M	\$ 500.00
g)	METCO		
	Invoice No. 1811-18	O&M	\$ 43,825.12
h)	NTH Consultants, Ltd		
1)	NI-EA – Engineering Design Services for Rehabilitation of NI-EA Sections PCI-4		
	Invoice No. 13	NI-EA	\$ 81,652.26
2)	REPAIRS – OMID System Immediate Repairs		
	Invoice No. 17	OIR	\$ 280.24
3)	CCA and Construction Observation Services		
	Invoice No. 51	Seg. 4	\$ 96.81
4)	CS9 – Hydraulic Control Gate		
	Invoice No. 3	O&M	\$ 20,937.64
5)	Safety Manual and Crane Support Eval.		
	Invoice No. 1	O&M	\$ 11,417.97
i)	Rotor Electric Co.		
1)	Invoice No. 12317	O&M	\$ 13,710.10
2)	Invoice No. 12327	O&M	\$ 5,648.07
3)	Invoice No. 12328	O&M	\$ 967.50
4)	Invoice No. 12330	O&M	\$ 4,900.89
j)	Walsh Construction		
	Invoice No. 22008 Pre-Con 5	NESPS M&E	\$ 192,867.06

12. Other Business

13. Adjourn

Next Regular Meeting: August 26, 2020 11:30 a.m., Eastern Standard Time. Due to the ongoing COVID-19 pandemic, the location and manner of the August meeting has yet to be determined.

OMID Board Meeting - May 2020
Wed, May 20, 2020 11:30 AM - 2:00 PM (EDT)

Please join my meeting from your computer, tablet or smartphone.

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Agenda Item No. 3

Board Meeting Minutes from June 17, 2020

**MINUTES OF THE REGULAR MEETING OF THE DRAINAGE BOARD
FOR THE OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT**

June 17, 2020

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held via GoToMeeting on the 17th day of June at 11:30 a.m. Eastern Standard Time.

PRESENT:

Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Candice Miller, Member and Macomb County Public Works Commissioner; and Jim Nash, Member and Oakland County Water Resources Commissioner.

OTHERS PRESENT:

Representing the office of the Macomb County Public Works Commissioner: Brian Baker and Steve Rozycki. Representing the office of the Oakland County Water Resources Commissioner: Anne Vaara, Steven Korth, Joel Brown, Sid Lockhart, Raphael Chirolla, Brian Coburn, Kelsey Cooke and Megan Koss. Others in attendance: Brady Harrington, MDARD; Fritz Klingler, FK Engineering; Shawn Phelps, OC Fiscal Services; Larry Gilbert and Saju Sachidanandan, NTH Consultants; Joe Colaianne, Clark Hill; Steve Burke, MFCI; Sal Saputo, Meadowbrook Insurance.

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:32 a.m. The Chairperson made a brief statement regarding the ongoing COVID-19 pandemic and, as a result, the need for the meeting to be held via GoToMeeting. He indicated that the meeting was being held in compliance with the Governor's Executive Orders 2020-02 and 75, which provide that meetings can be held electronically while satisfying the tenants of the Open Meetings Act, so long as a quorum is met and meaningful public participation is guaranteed.

2. Agenda.

Motion by Miller, supported by Nash, to approve the June 17, 2020 agenda as presented.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

3. Minutes.

Motion by Nash, supported by Miller, to approve the minutes of the May 20, 2020 meeting.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE
NASH: AYE

4. Public Comment. None.

5. Meadowbrook Insurance.

Sal Saputo presented to the Board a very thorough overview of both the property and pollution liability renewals for NESPS & NIEA (effective July1, 2020) and the NESPS & NI-EA OCIP insurance proposal (effective July 1, 2020).

- a) As to the property and pollution renewal, Mr. Saputo detailed renewal quotations by carrier, including deductible options. Discussion ensued amongst the Board and meeting participants. It was recommended that the Board approve the \$1M deductible option with Chubb for \$228,945.
- b) Pertaining to the NESPS & NI-EA OCIP insurance proposal, Mr. Saputo reviewed the proposal, focusing on the premium summary. It was recommended that the Board approve the builder's risk, contractor's pollution liability and owner's protective professional indemnity and authorize the Secretary to finalize the excess and general liability numbers once available.

Motion by Miller, supported by Nash, to approve the recommendations to the Board as presented and authorize the Secretary to execute the necessary documents.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

6. Plans and Specifications for the NI-EA and NESPS projects.

Joel Brown provided an update to the Board regarding the plans and specifications for the NI-EA and NESPS projects. He discussed the status and timelines of both projects, noting that NTH developed them to 100% completion. Motion by Nash, supported by Miller, to receive and file the plans and specifications as presented.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

7. Bond Resolutions.

- a) Joe Colaianne presented the Amended Assessment Roll for Bond Issue 2020A Series, noting various changes between the Assessment Roll approved initially by the Board at the May 2020 meeting.

- b) Steve Burke presented the Bond Resolution to Authorize the Issuance of Bonds in the Principal Amount Not to Exceed \$84,000,000. He summarized an analysis of the bonding options available and indicated that the overall goal was to get the bonds into the market as soon as possible to capture the current favorable interest rates.

Motion by Nash, supported by Miller, to approve the Amended Assessment Roll No. 1 for Bond Issue 2020A Series and the Bond Resolution to Authorize the Issuance of Bonds in the Principal Amount Not to Exceed \$84,000,000.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

8. Agreement Between NEXGEN and OMIDDD.

Joel Brown presented an agreement between NEXGEN and the Drainage District to provide asset management software services for Drainage District assets. Mr. Brown provided an overview of the asset management service and the reasons why such an agreement was advantageous. Motion by Nash, supported by Miler, to approve the agreement as presented.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

9. Engineering Work Order.

The following Engineering Work Order was submitted to the Board for approval:

METCO Work Order No. D – for NEXGEN Asset Management Implementation Services to:

- a) Increase METCO contract no. 5517 in the amount of \$218,800 for a total not to exceed amount of \$1,453,160 and
- b) Increase the NESPS Transition Project Budget by \$218,000 and authorize the transfer of \$218,000 from the major maintenance reserve to the NESPS Transition Project

Motion by Nash, supported by Miller, to approve the METCO Work Order as presented.

ROLL CALL VOTE:

GREGG: AYE
MILLER: AYE
NASH: AYE

10. Change Order.

The following Change Order was submitted to the Board for approval:

Change Order No. Three for Walsh Construction for Hydraulic Power Unit and Knife Gate Valve Repair Procurement on the NESPS Mechanical and Electrical Upgrades Project for a net increase in the amount of \$2,418,354.45. Motion by Miller, supported by Nash, to approve the Change Order as presented.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE

NASH: AYE

11. Construction Pay Estimate.

The following Construction Pay Estimate was submitted to the Board for approval:

Construction Estimate No. 10 for CSM Mechanical, LLC for a payment to the contractor in the amount of \$205,166.91 and a reserve payment in the amount of \$62,248.42. Motion by Nash, supported by Miller, to approve the Construction Pay Estimate as presented.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE

NASH: AYE

12. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS and NI-EA.

Fritz Klingler of FK Engineering presented the Project Progress Update to the Board and summarized the status of various projects. Motion by Miller, supported by Nash, to receive and file the report and summary.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE

NASH: AYE

13. Financial Reports.

Shawn Phelps of OC Fiscal Services presented the financial reports for Segments 1 through 4 and the NESPS. Motion by Miller, supported by Nash, to receive and file the financial reports.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE

NASH: AYE

14. Invoices.

The following invoices were submitted to the Board for approval:

a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs			
1)	Labor/Fringes/Non-Direct Labor Factor		
	• Segment 3	\$	1,475.28
	• Segment 4	\$	4,614.03
	• Segment 4 NESPS Gatehouse	\$	609.44
	• Segment 4 NESPS Odor Corrosion Study	\$	16,943.54
2)	Equipment Charges		
	• Segment 3	\$	104.16
	• Segment 4	\$	463.58
	• Segment 4 NESPS Gatehouse	\$	21.92
	• Segment 4 NESPS Odor Corrosion Study	\$	2,055.81
3)	Mileage		
	• Segment 4	\$	1,095.95
4)	Reimbursement of the Drain Revolving Fund Macomb County Invoice No. ARP200127		\$ 18,165.90
b)	Applied Science, Inc.		
	Invoice No. 16	NESPS M&E	\$ 74,479.78
c)	CH2M		
	Invoice No. 17	Seg. 4	\$ 36,310.37
d)	Clark Hill		
	1) Invoice No. 984816	O&M	\$ 270.00
	2) Invoice No. 984817	Seg. 4	\$ 243.00
e)	Detroit Elevator		
	1) Invoice No. 185395	O&M	\$ 39,425.70
	2) Invoice No. 187396	O&M	\$ 19,673.00
f)	Dickinson Wright		
	Invoice No. 1475174	O&M	\$ 10,465.00
g)	Jacobs		
	Invoice No. 21	O&M	\$ 24,631.95
h)	Meadowbrook Insurance Agency		
	1) Invoice No. 4625	O&M	\$ 27,500.00
	2) Invoice No. 2027	Seg. 4	\$ 44,200.00
i)	METCO		
	Invoice No. 1811-17	O&M	\$ 43,336.62
j)	Motor City Electric Technologies Inc.		
	Invoice No. 92997	O&M	\$ 1,071.58
k)	NTH Consultants, Ltd		
	1) NI-EA – Engineering Design Services for Rehabilitation of NI-EA Sections PCI-4		
	Invoice No. 12	NI-EA	\$ 147,647.66
	2) REPAIRS – OMID System Immediate Repairs		
	Invoice No. 16	OIR	\$ 522.80
	3) CS9 – Hydraulic Control Gate		
	Invoice No. 2	O&M	\$ 25,447.67

l) PM Technologies

1)	Invoice No. 138797	O&M	\$	358.33
2)	Invoice No. 138798	O&M	\$	358.33
3)	Invoice No. 138799	O&M	\$	358.33
m)	PMA Consultants			
	Invoice No. 90	NESPS M&E	\$	5,636.39
n)	Rotor Electric Co.			
	Invoice No. 12319	O&M	\$	8,812.94
o)	Walsh Construction			
	Invoice No. 22008 Pre-Con 4	NESPS M&E	\$	134,664.00

Motion by Nash, supported by Miller, to approve the invoices as presented.

ROLL CALL VOTE:

GREGG: AYE

MILLER: AYE

NASH: AYE

Commissioner Gregg's technology was interrupted at this point, and as such, Brady Harrington assumed his duties the remainder of the meeting.

15. Flow Metering Work Group Report on Control Structure Automatic Gate Closure and Hydraulic Pressure Sensors.

Steve Rozycki presented to the Board a memorandum detailing new operational measures developed by the MIDDD as to control structure automatic gate closure and hydraulic pressure sensors. Motion by Miller, supported by Nash, to receive and file the report as presented

ROLL CALL VOTE:

HARRINGTON: AYE

MILLER: AYE

NASH: AYE

16. Other Business.

Joel Brown presented a proposed agreement drafted by Joe Colaianne between the Drainage District and the MIDDD pertaining to Romeo Arm Lining – Segment 5 Project in an amount of \$562,000. Mr. Brown provided an update regarding the aforementioned project. Motion by Miller, supported by Nash, to approve the agreement as presented.

ROLL CALL VOTE:

HARRINGTON: AYE

MILLER: AYE

NASH: AYE

17. Adjourn.

Motion by Nash, supported by Miller, to adjourn the June 17, 2020 meeting at 1:47 p.m.

ROLL CALL VOTE:

HARRINGTON: AYE

MILLER: AYE

NASH: AYE

Next Regular Meeting: July 15, 2020 at 11:30 a.m., Eastern Standard Time. Due to the ongoing COVID-19 pandemic, the location and manner of the July meeting has yet to be determined.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage Board, at a meeting held on June 17, 2020 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976 and Executive Order 2020-75 and that the minutes were kept and will be or have been made available as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this _____ day of _____, 2020.

Jim Nash, Secretary
Oakland-Macomb Interceptor Drain Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Presentation regarding the
Odor and Corrosion Control System Project

OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT NORTHEAST SEWAGE PUMPING STATION

Odor and Corrosion Control System Project
- Biotrickling Filter System
- HVAC System Improvements

July 15, 2020



MICHAEL GREGG
State of Michigan
Department of Agriculture
and Rural Development



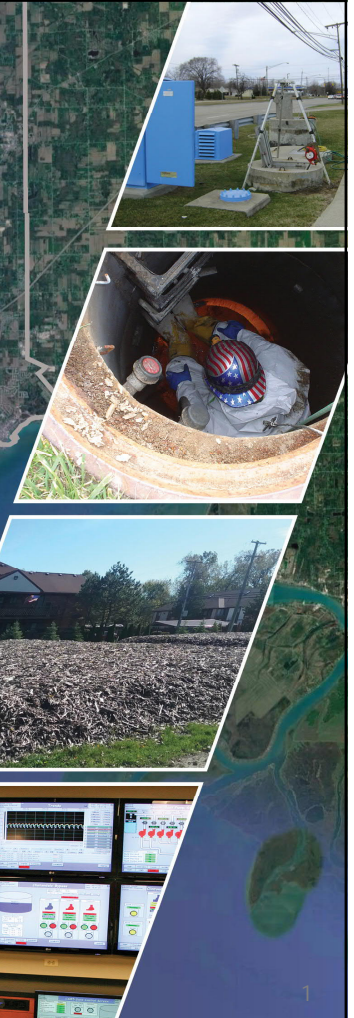
WATER RESOURCES COMMISSIONER

Jim Nash



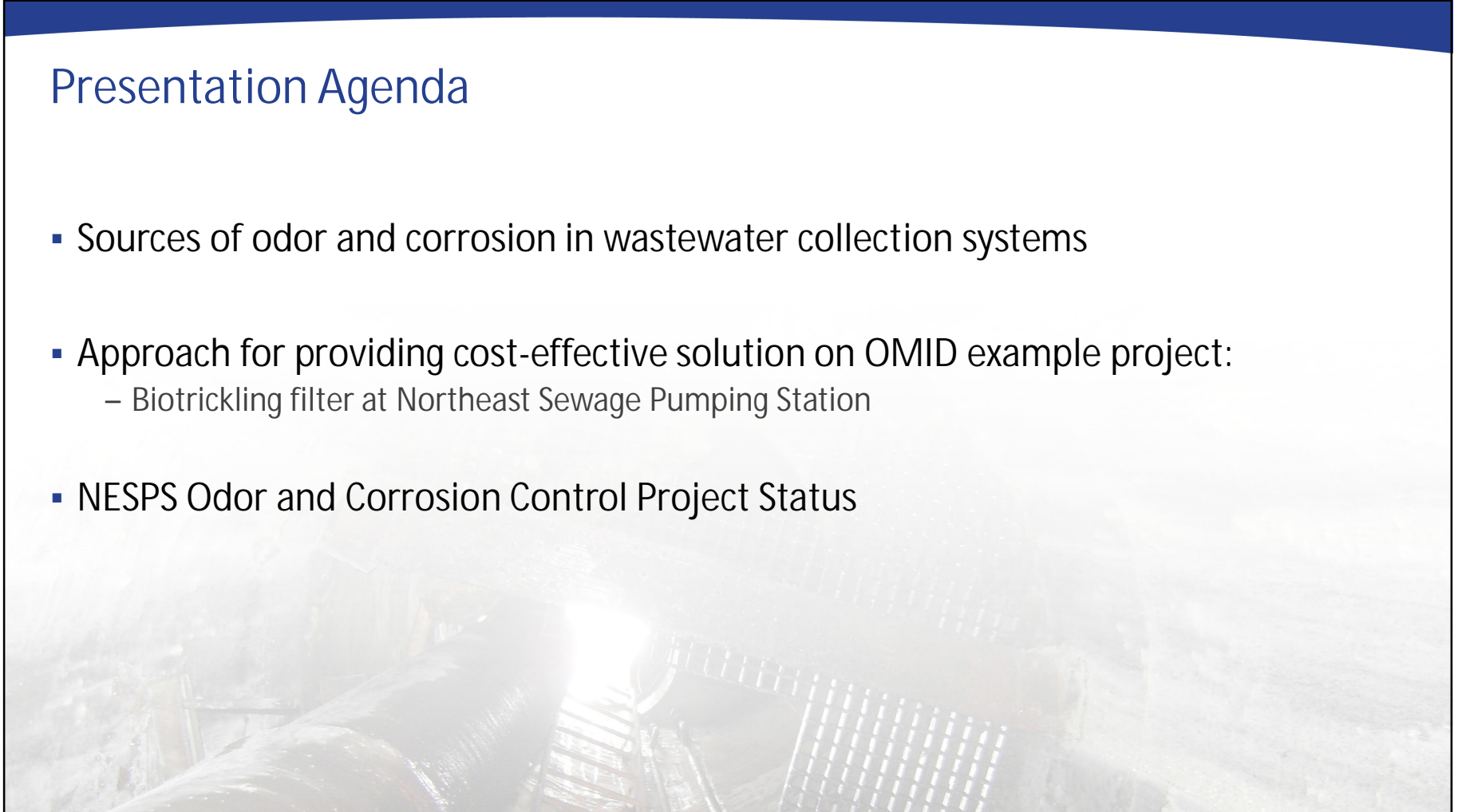
Candice S. Miller
Macomb County
Public Works
Commissioner

JACOBS



Presentation Agenda

- Sources of odor and corrosion in wastewater collection systems
- Approach for providing cost-effective solution on OMID example project:
 - Biotrickling filter at Northeast Sewage Pumping Station
- NESPS Odor and Corrosion Control Project Status



Origins of Wastewater Collection System Odors and Corrosion

- Most wastewater odors are caused by sulfides.
- Generation of sulfides in sewers:
Sulfate (SO_4^{2-}) + Anaerobic Bacteria → Sulfides
- Anaerobic bacteria do not need oxygen to survive.
- Sources of Sulfates:
 - Potable water
 - Ground water infiltration into sewers
 - Sulfates from industrial, commercial and domestic sources

Factors that can Increase Sulfides

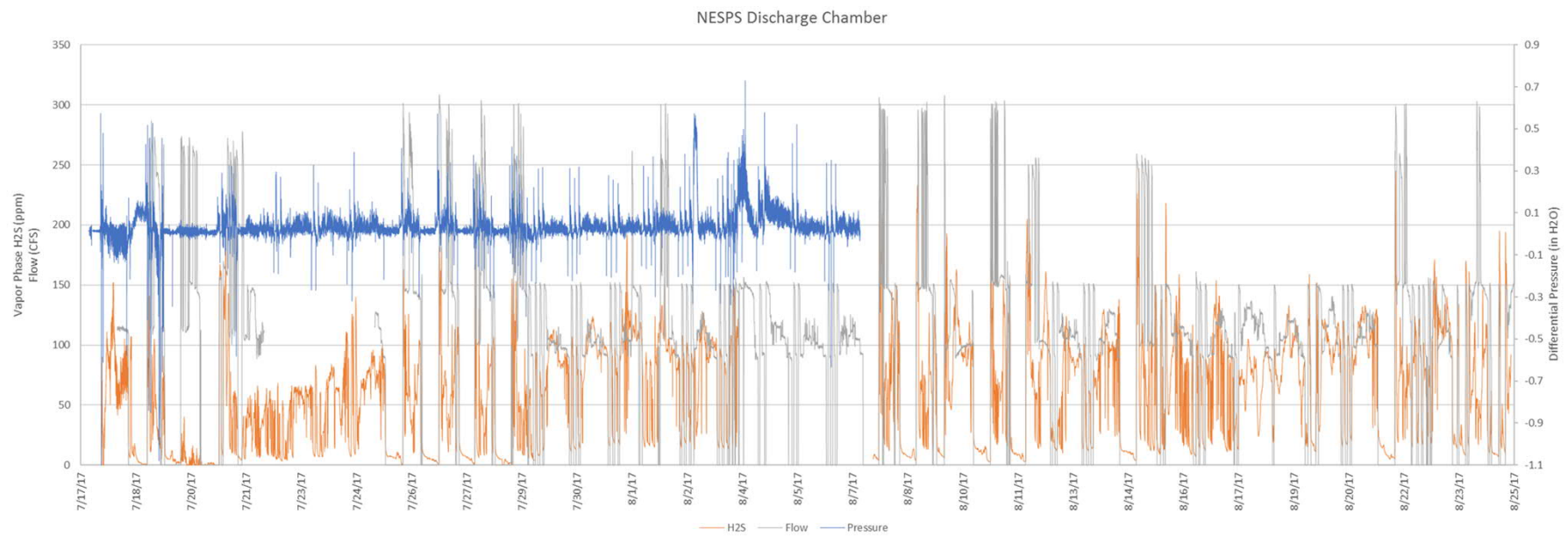
- Lower velocities
 - Oxygen consuming solids settle, reduces wastewater dissolved oxygen
 - Slime layer/anaerobic zone is thicker
- Higher temperature
 - Increased biological activity and reaction rates
- Higher detention time/low flows
 - More time for reactions to occur
- Higher Biochemical Oxygen Demand (BOD)
 - Higher oxygen demand, reduces wastewater dissolved oxygen
 - More BOD provides more food for anaerobic bacteria

Northeast Sewage Pumping Station Odor and Corrosion Control System Project

- 55 to 60 million gallons/day average daily dry weather flow rate. Contract capacity 273 mgd.
- 12.75-foot diameter sewer into pump station.
- Turbulent discharge chamber resulting in corrosion.
- Odor complaints from local residents.
- Corrosion issues in discharge chamber and throughout pump station interior.



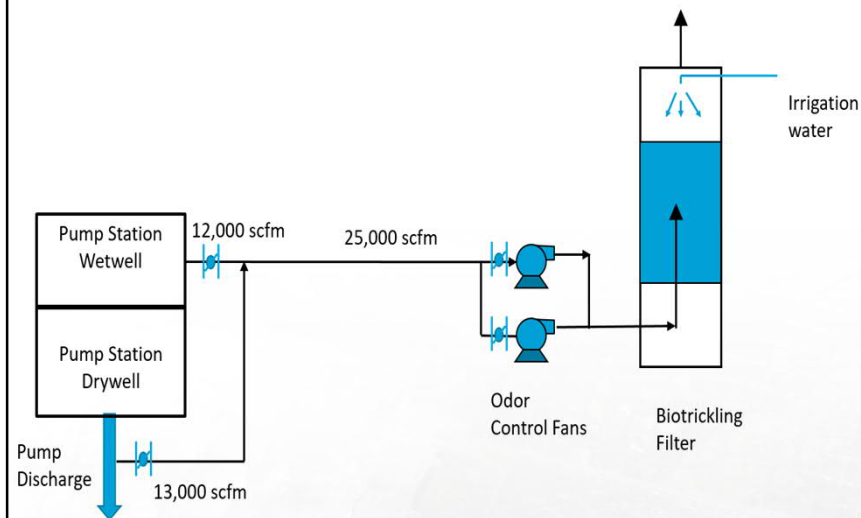
Example Discharge Chamber Hydrogen Sulfide and Pressure at NESPS



Evaluation of Odor/Corrosion Control Alternatives

- Determination of acceptable odor levels
- Determining impacts on community using air dispersion modeling
 - Stacks versus ground level areas sources
 - Variations in meteorological conditions
 - Elevations of sources and receptors
 - Building effects
- Considered liquid phase, vapor phase, or other sewer design alternatives
- Vapor phase alternatives include biotrickling filter, biotrickling roughing filter followed by biofilter, and a combination of biotrickling filter and carbon filter

Recommended Alternative: Biotrickling Filter



- 25,000 cfm capacity
- 40-feet tall, 14-feet diameter
- Small nutrient/irrigation feeds top of media
- Performance guarantee requirement: 99% removal



Biotrickling Filter System Overview

Advantages

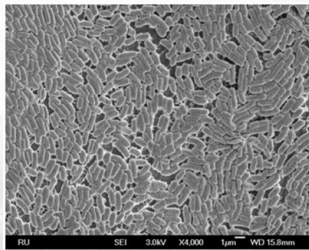
- Can treat up to + 200 ppm H₂S
- Small footprint
- High loading rate reduces capital cost
- Vertical height disperses odors

O&M Requirements

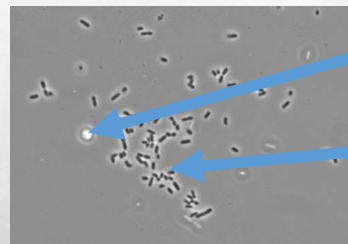
- Requires nutrient addition
- pH must be monitored

Biotrickling Filter System Overview

- Bacteria oxidize odorous compounds (mostly hydrogen sulfide) to sulfuric acid
- Bacteria grow as a film on plastic media
- Water flow adjusted to control the pH to provide best conditions to grow bacteria
- Removes ~ 99 % of the hydrogen sulfide

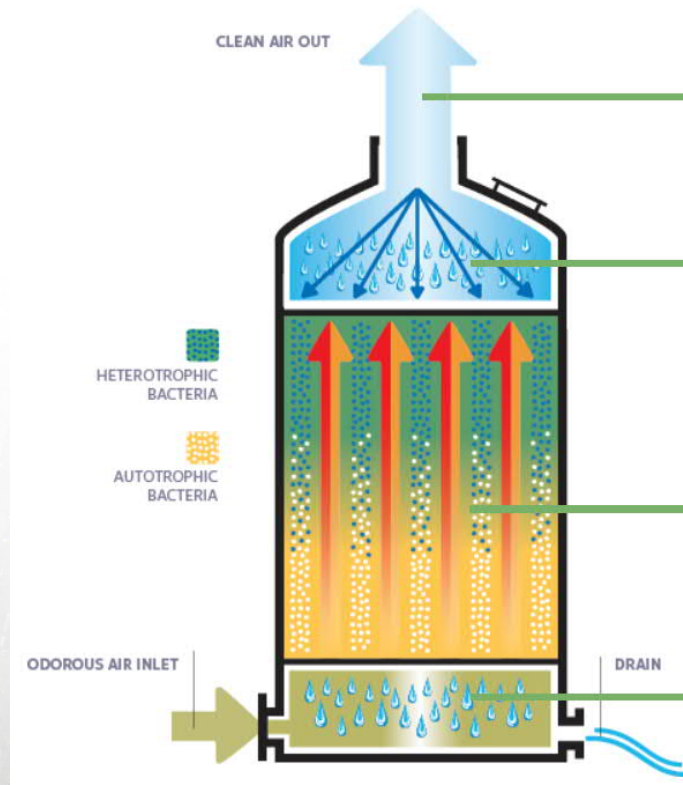


Thiobacillus - type
(mostly found in BTF reactors for H_2S)



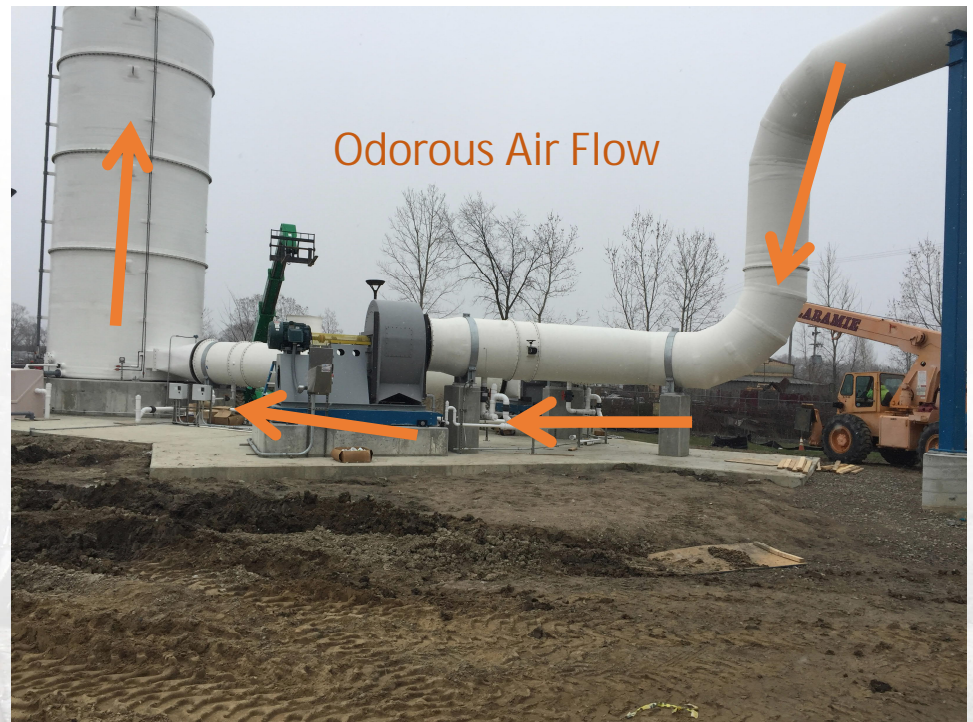
Elemental
sulfur

Sulfur
Oxidizing
Bacteria



Biotrickling Filter System Overview

- Odorous air is pulled from the sources through ductwork to the blower which forces air upward through the media.
- Treated air is discharged to the atmosphere via an outlet stack.
- By-products from treatment such as sulfuric acid (H_2SO_4) drains through PVC process piping back into the wet well.

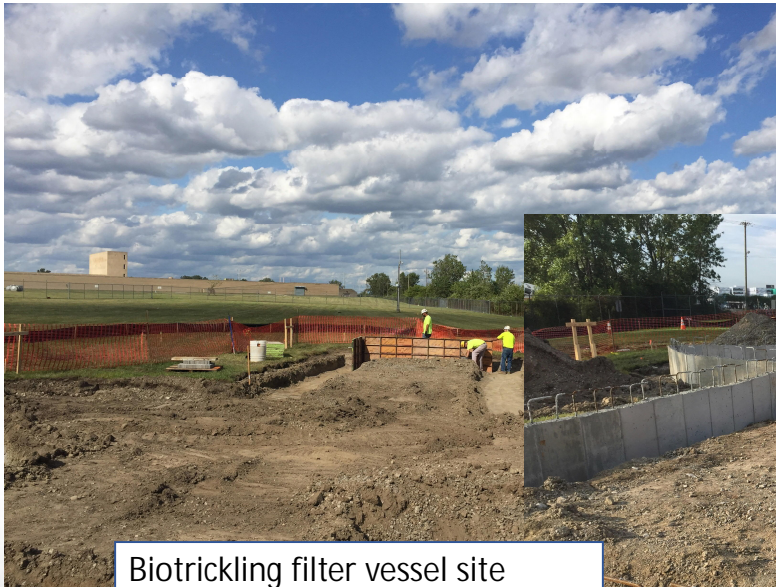


Northeast Sewage Pumping Station Project Odor/Corrosion Control System

- Construction Notice to Proceed: August 1, 2019
- Substantial Completion: June 28, 2020
- Biotrickling filter pre-purchased from BioAir Solutions, LLC: \$816,000
- Construction cost includes biofilter and HVAC improvements by CSM Mechanical, LLC: \$3,938,000



Northeast Sewage Pumping Station Odor/Corrosion Control System Project (Biotrickling Filter)



Biotrickling filter vessel site
preparation including grading
and concrete equipment pad
placement



9/6/19, 09:03
11036 E 8 Mile Rd
Detroit MI 48205

Northeast Sewage Pumping Station Odor/Corrosion Control System Project (Biotrickling Filter)



Biotrickling filter vessel
offloading, installation, and final
site placement



10/18/19, 18:33
11036 E 8 Mile Rd
Detroit MI 48205



Northeast Sewage Pumping Station Odor/Corrosion Control System Project (Biotrickling Filter)



BioAir provided equipment including VFD panels, nutrient mixing tank, and water panel



Water panel, booster pump, and process water and drain piping



BioAir temporary startup pump and process piping

Northeast Sewage Pumping Station Odor/Corrosion Control System Project (Biotrickling Filter)



Fiberglass-reinforced plastic duct installation leading from the wet well and discharge chamber



Biotrickling filter vessel, odor control fans, and fiberglass-reinforced plastic duct configuration



Northeast Sewage Pumping Station HVAC System BEFORE IMPROVEMENTS

Wet Well Air Supply Fan



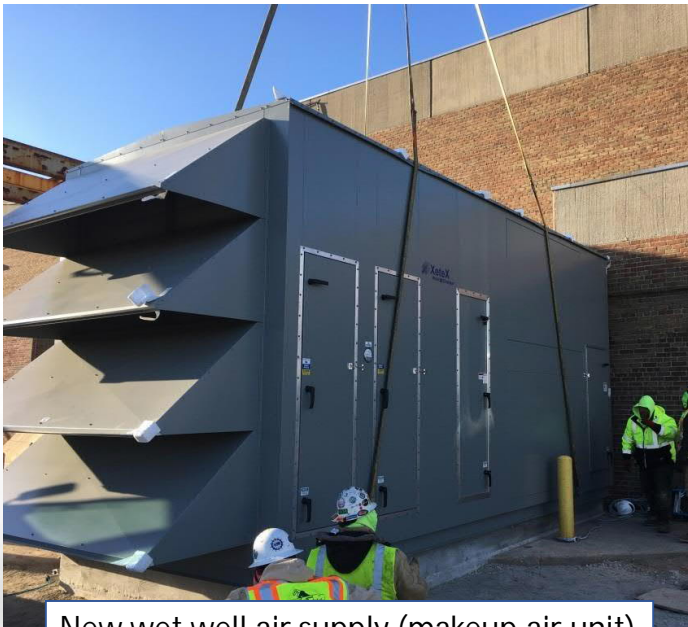
Wet Well Supply Air Duct



Wet Well Exhaust Fan



Northeast Sewage Pumping Station Odor/Corrosion Control System Project (HVAC System) AFTER IMPROVEMENTS



New wet well air supply (makeup air unit)

New stainless steel drop connection to fabric duct



New fabric duct material conveys fresh air supply to the wet well on two sides

Northeast Sewage Pumping Station HVAC System BEFORE IMPROVEMENTS



Dry Well Rectangular Supply Air Duct

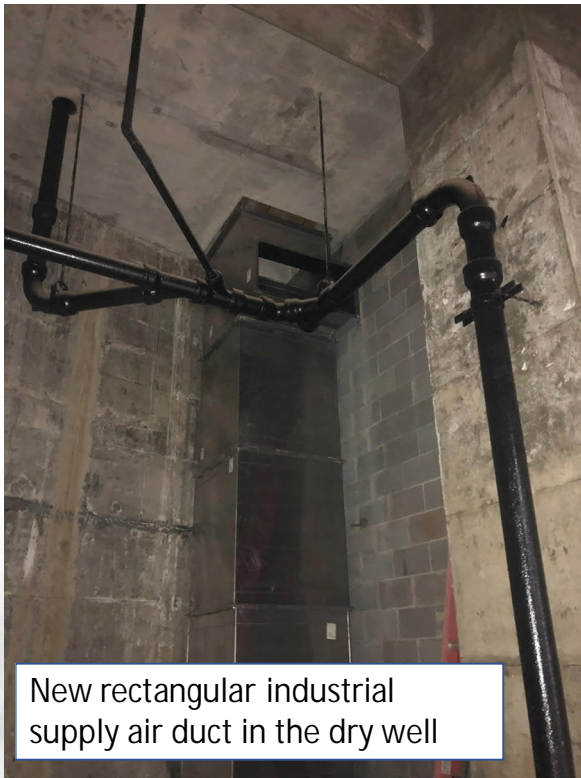


Dry Well Rectangular Supply Air Duct



Dry Well Supply Air Fan

Northeast Sewage Pumping Station Odor/Corrosion Control System Project (HVAC System) AFTER IMPROVEMENTS



New rectangular industrial supply air duct in the dry well



New round industrial supply air duct in the dry well



New dry well supply air fans and filter banks in each fan room

Northeast Sewage Pumping Station Odor/Corrosion Control System Project (HVAC System)



New wet well exhaust fan and fiberglass-reinforced plastic duct exhaust stack



New 6-inch water piping and insulation

QUESTIONS



MICHAEL GREGG
State of Michigan
Department of Agriculture
and Rural Development



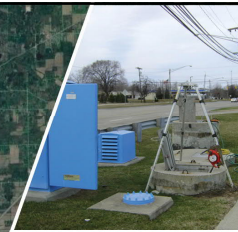
WATER RESOURCES COMMISSIONER

Jim Nash



Candice S. Miller
Macomb County
Public Works
Commissioner

JACOBS



Agenda Item No. 6

Engineering Work Order



Oakland-Macomb Interceptor Drain Drainage District

**TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage Board**

**FROM: Joel Brown, P.E. Oakland County Water Resources Commissioner's Office
Stephen Downing, P.E. Macomb County Public Works Commissioner's Office**

**SUBJECT: EWO for NTH Construction and Materials Testing (CMT) Services on the
Northeast Sewage Pumping Station Pumping and Electrical System
Upgrades Project**

DATE: July 15, 2020

Construction and materials testing (CMT) is required on the Northeast Sewage Pumping Station (NESPS) Pumping and Electrical System Upgrades project to ensure project quality. This is especially needed for the new building, driveway and other concrete structure construction. Accordingly, NTH Consultants, Ltd. was requested to provide a proposal for these services due to their familiarity with the pumping station and the project, as well as their proven commitment to quality assurance on previous projects, most recently being the NESPS Odor/Corrosion Control project. Their attached June 30, 2020 proposal provides for the following CMT services:

1. Sitework/Underground Utility Operations

- a. Observe cut/fill operations. Evaluate suitability of subgrade and fill for its intended use.
- b. Determine maximum density and optimum moisture content tests as required for fill and subgrade material per applicable standards.
- c. Perform in-field density and moisture tests to ensure satisfactory compaction of materials.

2. Concrete Placement Operations

- a. Observe placement of reinforcement steel and concrete.
- b. Ensure concrete mix is in conformance with project specifications.
- c. Perform slump, temperature, air content, unit weight and yield on concrete scheduled for placement in accordance with applicable standards.
- d. Mold concrete cylinders and perform compressive testing to confirm strength as required.

3. Shallow Foundation Construction

- a. Classify subgrade soils and perform bearing tests as required to ensure suitability of soil for support of foundations.

4. Structural Steel

- a. Enlist the services of a certified weld inspector to review contractor welding certificates, visually inspect welds, observe steel erection, and check tensioning of bolts as needed.
- b. Utilize ultrasonic testing as required to verify weld integrity.

An Engineering Work Order has been created for the above tasks for a not to exceed amount of \$130,128 based on the assumed testing needs listed in the proposal. Services will be provided on a cost-plus fixed fee basis as needed.

Requested Action: Approve the attached Engineering Work Order to increase Contract #2603 by an amount not to exceed \$130,138 for CMT services on the NESPS Mechanical and Electrical Upgrades Project.

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

No. -**ENGINEERING WORK ORDER**

FOR: Amendment to Contract #2603 For Construction and Materials Testing on the
NESPS Pumping and Electrical System Upgrades Project

TO: NTH Consultants, Ltd. DATE: July 1, 2020

DESCRIPTION**Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. 6 Additional Special Services and Exhibit D – Estimated Fees**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Northeast Sewage Pumping Station (NESPS) Pumping and Electrical System Upgrades Project that fall under the aforementioned sections of contract #2603. This EWO serves as your approval for compensation of the following observation and testing services as delineated in your June 30, 2020 proposal.

1. Sitework/Underground Utility Operations

- a. Observe cut/fill operations. Evaluate suitability of subgrade and fill for its intended use.
- b. Determine maximum density and optimum moisture content tests as required for fill and subgrade material per applicable standards.
- c. Perform in-field density and moisture tests to ensure satisfactory compaction of materials.

2. Concrete Placement Operations

- a. Observe placement of reinforcement steel and concrete.
- b. Ensure concrete mix is in conformance with project specifications.
- c. Perform slump, temperature, air content, unit weight and yield on concrete scheduled for placement in accordance with applicable standards
- d. Mold concrete cylinders and perform compressive testing to confirm strength as required.

3. Shallow Foundation Construction

- a. Classify subgrade soils and perform bearing tests as required to ensure suitability of soil for support of foundations.

4. Structural Steel

- a. Enlist the services of a Certified Weld Inspector to review contractor welding certificates, visually inspect welds, observe steel erection, and check tensioning of bolts as needed.
- b. Utilize ultrasonic testing as required to verify weld integrity.

DESCRIPTION (cont'd)

The associated fees for the above tasks are as follows:

1. Construction and Materials Testing and Observation: \$130,138

Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$130,138. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

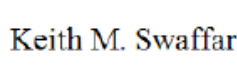
PREPARED**DATE:**7/2/20

By: Joel Brown, P.E.
Project Engineer
OCWRC

RECOMMENDED**DATE:**7/2/2020

By: Stephen Downing, P.E.
Construction and Maintenance Manager
MCPWO

ACCEPTED**DATE:**

 Keith M. Swaffar
Jul 2 2020 8:59 AM

By: Keith Swaffar, P.E.
Chairman
NTH Consultants, Ltd.

APPROVED**DATE:**

By: Sid Lockhart, P.E.
Special Projects Manager
OCWRC

Approved by Drainage Board on:



NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

41780 Six Mile Road, Suite 200
Northville, MI 48168
248.553.6300
248.324.5179 Fax

Oakland Macomb Interceptor Drain Drainage District c/o: June 30, 2020
Mr. Sid Lockhart, P.E. NTH Proposal No. 61-200280
Special Projects Manager
Office of the Oakland County Water Resources Commissioner
One Public Works Drive, Building 95 West
Waterford, MI 48328-1907

Mr. Stephen Downing
Construction and Maintenance Manager
Office of the Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036-1005

RE: Construction Material Testing Services
Oakland Macomb Interceptor Drain
NESPS Pumping & Electrical System Upgrades Project
Northeast Sewage Pumping Station
Detroit, Michigan

Dear Messrs. Lockhart and Downing:

In accordance with our recent discussions, we are pleased to submit this proposal to provide construction material testing for the Pumping and Electrical Upgrades project at the Northeast Sewage Pump Station (NESPS) located in the southwest quadrant of the Great Lakes Water Authority (GLWA) Northeast Water Treatment Plant site. This proposal has been prepared based on our recent discussions with you, our knowledge of the NESPS Upgrades project scope based on discussions with the retained Construction Manager at Risk (CMAR) – The Walsh Group, and our experience working on similar projects. The following section details our scope of services and professional fees as well as terms and conditions.

SCOPE OF SERVICES

Sitework/Underground Utilities Operations – If services are requested, our field representative will observe cut and fill operations as well as proof rolling operations for subgrade preparation prior to placement of slabs and pavements, evaluate fill soils, evaluate suitability of the subgrade for support of underground utilities, and determine the moisture content and in-place dry density of engineered fill and backfill materials. We will use a nuclear moisture-density gauge to verify compliance of fill materials with compaction specifications. More specifically, we propose to perform the following services as required/appropriate:

- Determine maximum density and optimum moisture content (Modified Proctor test, ASTM D-1557) for each of the fill material groups.
- Grain-size analysis of granular materials per ASTM to determine suitability of material for free-drainage backfill, filter materials, drains, etc., for each fill material type.
- Observe repairs performed on the unstable subgrade such as undercutting, placement of geotextile fabric, placement and compaction of stone and/or other engineered fill.



- In-place density/moisture tests to establish the degree of compaction of fill materials during the course of engineered fill placement.

Concrete Placement – Our field representative will observe and verify the placement of reinforcing steel, observe concrete placement operations, perform appropriate field-testing and mold compression test cylinders. We will also perform the necessary related and/or follow up services including:

- Review the contractors' proposed materials and mix design for compliance with project specifications, if requested.
- Observe mix cycle, concrete age, and delivery tickets.
- Observe and document concrete placement, consolidation, finishing and curing procedures, if requested.
- Perform the following field concrete tests:
 - ◆ Slump (ASTM C 143) at the rate determined by the project specifications. Perform slump tests at the discharge point and at the truck, if concrete is pumped.
 - ◆ Temperature at the rate determined by the project specifications.
 - ◆ Air content (ASTM C 183 or C 231) at the rate determined by the project specifications.
 - ◆ Unit weight and yield (ASTM C 138) at the rate determined by the project specifications.
 - ◆ One set of five compressive strength cylinders (ASTM C 31), at the rate/frequency determined by the project specifications.
- Perform the following laboratory tests:
 - ◆ Compressive strength tests at the rate determined by the project specifications. One at seven days; three at 28 days, and one spare.

Shallow Foundation Construction – Our experienced field representative will observe, test, and evaluate the bearing soils at the bottom of excavations for support of shallow foundations. To assess the suitability of bearing materials, our field representative will use Housel penetrometers, pocket penetrometers, or other appropriate testing devices as dictated by the encountered soil conditions. Specifically, we propose to perform the following service:

- Classifying bearing soils and verifying that soil descriptions compare with those indicated in the geotechnical report and/or the project documents.

Structural Steel – Our Certified Weld Inspector (CWI) will perform a variety of tasks, including the review of: prequalification certificates of welding operators and welding procedures; provide visual inspections of welds; random checks of dimensions; performance of nondestructive testing; observation of field erection procedures; checking tension of high strength bolts (if needed); and calibrating impact wrenches when used, or verifying the turn-of-the-nut method. Field welded connections will be visually reviewed for size and quality. Fillet welds as well as full penetration structural welds will be examined by ultrasonic testing, if required. Full and partial penetration welds will be tested by ultrasonic testing methods, in accordance with the project specifications.



To prepare a budgetary estimate, we assumed the following:

Task Description	No. of Operations*
1. Major Concrete Placement (foundation, basement etc.)	12 Nos.
2. Minor Concrete Placement	40 Nos.
3. Misc. Concrete (walkways, pads, etc.)	10 Nos.
4. Density Compaction Testing	25 Nos.
5. Structural Steel (Welds, bolted conn.)	10 Nos.
6. Lab testing and cylinder pickup - as necessary based on above listed operations	

** Please note - OMIDDD will only be invoiced for actual hours worked*

PROFESSIONAL FEES

Based on the assumptions and proposed scope of services described above, our estimated fee is \$130,138. A detailed breakdown of the anticipated man hours for each of these tasks is provided in the attached work plan.

Fees for our services will continue to be charged on a cost-plus fixed fee basis in accordance with our existing Engineering contract with the OMID Drainage District Board.

TERMS AND CONDITIONS

Terms and conditions will be in accordance with our contract with OMIDDD dated June 2009. We understand that if this proposal is acceptable to OMIDDD, that the work will be authorized in a forthcoming Engineering Work Order.

We appreciate this opportunity to be of service to you and look forward to assisting you with this project. Upon your review, should you have any questions or comments, please feel free to contact us.

Sincerely,

NTH Consultants, Ltd.

Lawrence T. Gilbert, P.E.
Senior Principal Engineer

Saju Sachidanandan, P.E.
Vice President

LTG/SS/lrf

Attachment

Cc: Joel Brown, P.E. (OCWRC)

PROJECT FEE ESTIMATING SHEET - CONSTRUCTION PHASE

Markup on Expenses 5.0%

TOTAL ESTIMATED FEE

Agenda Item No. 7

Change Orders

CHANGE ORDER NO. SEVEN

Oakland Macomb Interceptor Drain, Drainage Board (OMIDDD)

For Construction of the Odor/ Corrosion Control Facility Project,

Northeast Sewage Pumping Station (NESPS)

Located in the City of Detroit, Wayne County, Michigan

CONTRACTOR: CSM Mechanical, LLC

Authorization for:

1.) Partial deletion of Bid Item # 42 for unused balance of "Concrete curbs, sidewalks and driveways"; 2.) Installation of 6" dia. Gate Valve and Concrete Well; 3.) Construct aggregate surfaced approach roadway for Equipment Storage Frame; 4.) Rehabilitation of Wet Well Crane Structural Frame and Hatch Covers; 5.) Supplemental roadway excavation and aggregate fill work.

Address: 7400 Hickory Valley Drive
Fenton, MI 48430

Change Order No.: 7 Date: July 08, 2020

No.	Location-Description-Reason	Unit	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
7-1	<p><u>LOCATION:</u></p> <p><i>Northeast Sewage Pumping Station (NESPS), located in the City of Detroit, Wayne County, Michigan</i></p> <p><u>DESCRIPTION: (Change/ Delete):</u></p> <p>Provide credit to the Project for the deletion of portions of the site concrete roadway, curbs, and sidewalk at the northeast area of the NESPS site.</p> <p><u>REASON:</u></p> <p>The upcoming "NESPS Pump and Electrical Rehabilitation Project" will require significant revisions to the layout plan for the site access roadways, and in addition would impose potentially damaging construction loads on newly installed pavement.</p> <p>Accordingly, to address this issue, the concrete pavements, including sidewalks (not already installed), are deleted from the Odor Corrosion Control Project, and the redesigned pavement</p>	LS	1 ea.	\$ 57,810.00	-0-	\$57,810.00

OMID Odor/ Corrosion Control Facility (NESPS); C.O. # 7

	<p>work will be incorporated into the Pump and Electrical Rehab contract and installed following completion of the heavy construction activities on that project.</p> <p>Summary:</p> <p>Bid Item 42: Concrete curbs, sidewalks, and driveways; LS= \$ 71,350.00</p> <p>Less work completed (BTF Sidewalk): LS= -\$13,540.00</p> <p>Total Deduct: LS= \$57,810.00</p>					
7-2	<p><u>DESCRIPTION: (Extra/ Add):</u></p> <p>Furnish labor, equipment, and materials to install a new 6" dia. potable water service to the NESPS, including installation of a Gate Valve and precast concrete well (GV&W) with related appurtenances and special installation requirements within the NESPS interior.</p> <p><u>REASON:</u></p> <p>The previous water service, dating from the original facility construction, lacked the ability to isolate the NESPS from the surrounding GLWA site water supply loop. This deficiency created problems for current and future maintenance and repair tasks within the Pump Station, and also adversely affected the installation of the new water service within the station interior. The completion of this task experienced several unanticipated complications that affected the final scope of work, but which were ultimately accomplished in a satisfactory manner.</p> <p>Attachment:</p> <p>CSM Mechanical Billing Summary of 6/30/2020</p>	LS	1 ea.	\$28,371.45	\$28,371.45	-0-
7-3	<p><u>DESCRIPTION: (Extra/ Add):</u></p> <p>Construct aggregate surfaced (21AA Limestone with geo-textile underlayment) access road for the NESPS exterior Flow Control Equipment Storage Frame.</p>	LS	1 ea.	\$5,843.78	\$5,843.78	-0-

OMID Odor/ Corrosion Control Facility (NESPS); C.O. # 7

	<p><u>REASON:</u></p> <p>Change Order 6, Item 6-1 provided for the fabrication and installation of a steel storage frame and aggregate support pad for maintaining the inventory of flow control equipment inventoried at the NESPS. Included in this additional task (Item 7-3) is the construction of an improved aggregate surfaced approach roadway to allow ready access to the storage frame for vehicles and mobile hoisting equipment.</p> <p>Attachment:</p> <p>CSM Mechanical Summary of 5//29/20</p>					
7-4	<p><u>DESCRIPTION (Extra/ Add):</u></p> <p>Provide labor, equipment, and subcontractor services for rehabilitation of the existing NESPS Wet Well Overhead Monorail Crane Support Structure and adjacent removable Hatchway covers.</p> <p><u>REASON:</u></p> <p>The existing outdoor Wet Well overhead crane and framework is a component of the original 1970 NESPS construction, and has experienced deterioration due to normal weather exposure. (Note: The original crane mechanism has been removed and discarded, and will be replaced by a new unit acquired by the OMIDDD under a separate agreement.)</p> <p>The steel frame has undergone a structural evaluation by NTH Consultants and is determined to be in satisfactory condition other than surface weathering and a damaged lateral bracing member that has since been replaced.</p> <p>This item of additional work will provide for the blast cleaning of the frame and adjacent steel wet well hatch covers to bare metal, and a recoating with a multi-layer paint system. The existing coating has been determined to be lead based, and will require the normal regulatory environmental procedures for dust/ abrasive containment and collection, and proper disposal.</p> <p>Included also in this task is the removal and replacement of an existing deteriorated partial roof shelter that once housed the crane mechanism, the replacement of the aforementioned defective bracing member, and a</p>	LS	1 ea.	\$44,241.00	\$44,241.00	-0-

OMID Odor/ Corrosion Control Facility (NESPS); C.O. # 7

	<p>provisionary allowance for electrical upgrades (if required) during new crane installation.</p> <p>A summary of the additional costs for this activity are as follows, per Work Directive # 017;</p> <p>Sand blast and paint frame and WW Hatch Covers: \$32,800 x 1.05% GC markup L.S. = \$ 34,440.00</p> <p>Remove Deteriorated Roof Shelter and Replacement Allowance: \$5,610 (est) x1.15% GC markup L.S.= \$6,451.00 (Allowance)</p> <p>Remove and Replace angle bracing: \$2,000 x 1.15% C Markup L.S. = \$2,300.00</p> <p>Provisionary Allowance for Misc. Electrical Work L.S. = \$1,000.00 x 1.05%= \$1,050.00</p> <p>Total Costs, Item # 7-4: \$44,241.00.00</p> <p>Attachments:</p> <p>Work Change Directive # 017</p>					
7-5	<p><u>DESCRIPTION: (Extra/ Add):</u></p> <p>Perform additional site roadway excavation with corresponding supplemental aggregate replacement and grading work in specific areas of the NESPS site.</p> <p><u>REASON: 0</u></p> <p>A previous revision in the project pavement details increased the proposed concrete pavement thickness from 6" to 10" resulting in the need for an additional 4" depth of excavation. The additional 4" of base excavation was performed, however, additional aggregate and grading work was then required for temporary approach ramps, thickened stone roadway areas, and other related grade adjustments necessary for site vehicular access prior to the final pavement installation (to be included in future Contracts).</p> <p>Attachments: CSM quotation (Rev.3) to WCD # 011</p>	LS	1 ea.	\$4,627.35	\$4,627.35	-0-

OMID Odor/ Corrosion Control Facility (NESPS); C.O. # 7

						Amount Increase	Amount Decrease
			Totals		\$83,083.58	\$57,810.00	
			Net Changes (Add)		\$25,273.58	-0-	

END OF CHANGE ORDER NO. SEVEN ITEM DESCRIPTIONS

OMID Odor/ Corrosion Control Facility (NESPS); C.O. # 7

Prepared By:
Lawrence T. Gilbert, P.E.
NTH Consultants, Ltd.

Date:

7-9-2020

Recommended By:
Jason Matteo, P.E.
Project Manager, Jacobs

Date:

Approved by:
Joel Brown, P.E.
Project Manager, WRC

Date:

Approved By:
Stephen Downing
Construction and Maintenance Manager, Macomb County Public Works

Date:

Approved By:
Sid Lockhart, P.E.
Manager of Special Projects, WRC

Date:

Approved by:
Steve Korth, P.E.
Manager, WRC

Date:

All of Contractor's contractual obligations remain in place and are applicable to all work and payments identified herein. No adjustment to contract time or price shall be made for these issues except as set out in this, or by a subsequent related, Change Order.

The Contractor agrees to do the work described above and agrees to accept Contract time adjustments in full on the basis indicated.

Accepted by:

Date

Title

of: CSM Mechanical, LLC

The Contractor is hereby authorized and instructed to do the Work described above in accordance with the terms of the Contract, as amended.

This Change Order No. 7 was approved by the Drainage Board on:

Date:

CHANGE ORDER NO. 4

Oakland-Macomb Interceptor Drain Drainage District Board
 For Construction of the NESPS Mechanical and Electrical Upgrades Project (Contract #5977)
 Located in City of Detroit, Wayne County, MI

CONTRACTOR: Walsh Construction Company II, LLC

Address: 3031 West Grand Blvd. Ste. 640

Detroit, MI 48202

Authorization for Changes In and Extras to Contract

Change Order No: 4

Date: 7/1/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<u>LOCATION:</u>					
A/B/C/D	NESPS (Preconstruction Services-Ref Attached Letters dated 7/7/20)					
	<u>DESCRIPTION:</u>					
	(Change/Add):					
A	Grant Walsh authorization to enter into a subcontract with Bid Package #2 (Centrifugal Dewatering Pumps) low-bidder Flowserve, under the NESPS Mechanical and Electrical Upgrades Project, for the following services including, but not limited to: 1. Procurement of five (5) new pumps with accompanying synchronous motors and motor instrumentation 2. Procurement of platforms for motor and pump 3. Provide new intermediate shafting, bearings, shaft guards shaft supports and oil lubrication, and repurpose existing bearings The total value of the change order, \$6,103,462, consists of a base subcontract of \$5,771,596 with Flowserve and Walsh's contractual 5.75% CMAR fee of 331,866. Work is contingent upon availability of funds.	LS	1	\$6,103,462.00	\$6,103,462.00	-
B	Grant Walsh authorization to enter into a subcontract with Bid Package #3 (Electrical Switchgear) low-bidder Madison Electric (Square D) under the NESPS Mechanical and Electrical Upgrades Project for the following services including, but not limited to: 1. Double ended secondary unit substation 2. Five (5) Medium voltage motor starters 3. Two (2) Medium Voltage Switchgear The total value of the change order, \$1,596,346, consists of a base subcontract of \$1,506,711 with Madison Electric (Square D) and Walsh's contractual 5.75% CMAR fee of \$86,635. Work is contingent upon availability of funds.	LS	1	\$1,596,346.00	\$1,596,346.00	
C	Grant Walsh authorization to enter into a subcontract with Bid Package #4 (Medium Voltage Transformers) low-bidder Madison Electric under the NESPS Mechanical and Electrical Upgrades Project for the following services including, but not limited to: 1. Two (2) substation transformers The total value of the change order, \$505,254, consists of a base subcontract of \$477,782 with Flowserve and Walsh's contractual 5.75% CMAR fee of \$27,472.	LS	1	\$505,254.00	\$505,254.00	
D	Site Preparation and Mobilization Allowance	LS	1	\$150,000.00	\$150,000.00	

Change Order

CONTRACTOR: Walsh Construction Company II, LLC
 Address: 3031 West Grand Blvd. Ste. 640
 Detroit, MI 48202

Authorization for Changes In and Extras to Contract

Change Order No: 4 Date: 7/1/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
A/B/C	<u>REASON:</u> The primary purpose of retaining Walsh as a construction manager at risk for this project was to expedite the procurement of the core materials and equipment with long lead times in an effort to reduce the overall project construction time. As such a series of material and equipment packages have been and continue to be let for subcontractors to bid on. The existing pumps, shafting, electrical switchgear and transformer equipment are in need of replacement under this project and have the longest manufacturing lead times. The subcontractors were selected as the lowest responsive, responsible bidders. Work will progress based on availability of funds.					
D	As the 90% Design is being finalized and reviewed, and Walsh is issuing additional bid packages for site/civil, foundation, plumbing, concrete and other services to work towards a Guaranteed Maximum Price (GMP) negotiation, the Design Team believed it was prudent to allow Walsh to begin site mobilization and preparation so that the site is fully prepared to begin construction once the GMP is finalized. The allowance provides Walsh to bill time and materials for mobilizing job trailers to the site, laying water, sewer and electric and connecting to the trailers, as well as stoning the trailer and parking areas. The amount is not to be exceeded without further authorization.					
				Item A Total	\$8,355,062.00	\$0.00
				Total	\$8,355,062.00	

Change Order

CHANGE ORDER NO. 4

Oakland-Macomb Interceptor Drain Drainage District Board
For Construction of the NESPS Mechanical and Electrical Upgrades Project (Contract #5977)

Prepared by: _____ Date: _____
WRC: Joel Brown, P.E., Assistant Chief Engineer

Recommended by: _____ Date: _____
Applied Science John Michalski, P.E., Vice President

Approved by: _____ Date: _____
MCPWO Manager: Stephen Downing, P.E. (Construction & Maintenance Manager)

Approved by: _____ Date: _____
WRC Manager: Sid Lockhart, P.E. (Special Projects Manager)

Approved by: _____ Date: _____
WRC Manager – Steven Korth, P.E.

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: _____ Date: _____
Title

of: Walsh Construcion II, LLC

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No. 4 was approved by the Drainage Board on: _____ Date: _____

Agenda Item No. 8

Construction Estimates

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the Odor / Corrosion Control System- Northeast Sewage Pumping Station
Located in the City of Detroit, Wayne County, Michigan
Project ID 100000002708

Regular Construction Estimate No. Eleven
(7-8-2020)

June 1, 2020 through June 30, 2020

Department No.: 6010101
Fund No.: 84915
Project No.: 295117

Account No.: 731472
Program No.: 149015
Activity: FAC

Contractor:
CSM Mechanical, LLC
7400 Hickory Valley Dr.
Fenton, MI 48430

Contract No. # 5777

Date of Contract: July 3, 2019
Final Completion Date: September 27, 2020
Adjusted by C.O. 5 to: August 28, 2020

Original Contract Amount:		\$3,783,390.00
Previous Change Orders:	C.O.# 1, 2, 3, 4, 5 and 6	\$360,526.01
Change Orders This Estimate:	None	\$0.00
Total Net Change Orders:		\$360,526.01
Adjusted Contract Amount:		\$4,143,916.01
Sub-Total To Date:		\$3,959,870.73
Less Deductions:		None
Gross Estimate: (Work in Place)	95.56 % Complete	\$3,959,870.73
Less Amount Reserved : Lump Sum		\$138,821.18
Total Amount Allowed To Date:		\$3,821,049.55
Less Previous Estimates:		\$3,688,814.94
Net Payment Request To Be Paid To Contractor:		\$132,234.61
Reserve Payment to Contractor:		\$0.00
Balance to Finish: \$184,045.28	Accounting Auditor:	
Amount To Be Reserved (From Above)		\$138,821.18
Less Previous Transfers To Reserve:		\$0.00
Amount of Current Transfer: Payment to Contractor		\$0.00

Prepared by: Lawrence T. Gilbert
Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Date: 7-9-2020

FOR Recommended by: Jason Matteo
Jason Matteo, P.E.; Jacobs

Date: 7/9/2020

Recommended by: _____
Joel Brown, P.E. Oakland County WRC

Date: _____

Recommended by: _____
Stephen Downing; Macomb County OPWC

Date: _____

Approved for Payment by: _____
Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC

Date: _____

Regular Construction Estimate No. Eleven

Approved By Board On: _____

**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
OMIDDD Flow Control Modifications (CS Hatch Modifications)
Warren and Sterling Heights, Macomb County, Michigan**

Regular Construction Estimate No. 1

April 1, 2020 to May 30, 2020

Department No.: 61010101
Fund No.: 82912
Project No.: 1-3016

Account No.: 731472
Program No.: 149015
Activity: FAC

Contractor:

Account No.: 5817
Date of Contract: October 17, 2019
Completion Date: N/A
Extended to: N/A

Original Contract Amount (CO #1 to Master Contract): \$205,050.00

Previous Change Orders: \$0.00
Numbers: (none)

Change Orders This Estimate: \$0.00
Numbers: (none)

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$205,050.00

Sub-Total To Date: (Sheet 3 of 3 Column 7) \$103,480.00

Less Deductions: (Sheet 3 of 3 Column 7) \$0.00

Gross Estimate: (Work in Place) 50.47% \$103,480.00

Less Amount Reserved: (10% of 1/2 Adjusted Contract Amount) \$10,252.50

Total Amount Allowed To Date: \$93,227.50

Less Previous Estimates: \$0.00

Net Payment Request To Be Paid To Contractor: \$93,227.50

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$ 101,570.00 Accounting Auditor:

Amount To Be Reserved (From Above) \$10,252.50

Less Previous Transfers To Reserve: \$0.00

Amount of Current Transfer: \$10,252.50

Prepared by: _____ Date: _____
Joel Brown, P.E. - OCWRC Assistant Chief Engineer

Recommended by: _____ Date: _____
Fritz Klingler, P.E. FK Engineering Inc.- Consulting Engineer

Recommended by: _____ Date: _____
Stephen Downing - Construction and Maintenance Manager, MCPWO

Approved by: _____ Date: _____
Sid Lockhart - Special Projects Manager, OCWRC

Regular Construction Estimate No. 1

Approved By Board On: _____

Agenda Item No. 9

Report/Update – Status of OMI Project,
Segments 1 through 4, NESPS, NI-EA

Oakland Macomb Interceptor Drain (OMID) Repairs

Project Progress Update

Prepared by:

F. Klingler, P.E., N. Kacynski, FK Engineering Assoc.
S. Sachidanandan, P.E., L. Gilbert, P.E., NTH Consultants, Ltd.
J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco
J. Matteo, P.E., Jacobs Engineering, Inc.

July 15, 2020 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (July 2, 2020) for the work completed for the Oakland-Macomb Interceptor Drain Repair Program (SRF Segments 1-4; Contract 7 PCI-4 repairs; Maintenance Repairs in PCI-5 through PCI-11A; Control Structure Modifications; NIEA Repairs; NESPS Upgrades; Odor/ Corrosion Control System, and other related work):

SRF Segment 1 Status:

Contracts 1&2 – Complete

System-wide Odor/Corrosion Study – Ongoing:

Engineering Consultant: Jacobs Engineering

Project Budget Summary (including EWO No. 2):

- | | |
|--|--------------|
| • Adjusted Project Budget (including Fan Testing Allowance of \$60,000): | \$531,447.00 |
| • Total Spent (through June 2020): | \$449,977.01 |
| • Remaining Budget (through June 2020): | \$81,469.99 |

Milestone Schedule Summary:

- Submitted draft report in January 2020
- Working toward final resolution of issues and final report; see below.

Status of Major Project Tasks:

- Continued to advance conceptual design of vapor-phase and liquid-phase odor/corrosion control alternatives.
- Continued with investigations upstream of metering facilities/drop connections for assessment of potential for liquid-phase treatment at some locations.
- Continued WATS state-of-the-art sewer process model to reflect future lining and flow control operating conditions, including storage/release sequences for selected OMID repair reaches.
- Conducted internal video conferences to monitor progress, schedule and budget for additional evaluations, including latest WATS modeling efforts and path forward
- Continued to prepare conceptual layouts of several mitigation facilities.

SRF Segment 2 Status:

Contract 3 (Base Contract) – Complete, Closeout Pending

Construction Amt Invoiced: \$18,011,426.41, as adjusted by C.O. 11.

Schedule Status: Complete July 31, 2014; Overall Contract closeout will be combined with closeout for NESPS Discharge Chamber Emergency Repairs (CO 2-E, et al).

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Contract 3-2E thru 3-2J (NESPS Gatehouse): Substantially Complete

Construction Amt Invoiced: \$5,151,543.52 Invoiced to date including Change Order 2E through 2J.

Schedule Status: Substantially Complete on 11/25/17, with additional Gatehouse lining work performed under Change Order 2-I and completed on March 31, 2019.

Status of Major Project Tasks:

East side Tnemec repairs are complete; west side repairs remain delayed as a result of Pump 1 damage incurred in January 2020 during testing. The pump has been removed and transported for offsite repair. The repair was completed, and the motor tested at York's facility followed by delivery to NESPS site on July 2, with installation and additional testing at the NESPS to be tentatively completed in mid-July. Tnemec Repairs to follow shortly after testing.

SRF Segment 3 Status:

Contract 4: Complete

SRF Segment 4 Status:

Contract 5A/5B – Complete, Administrative Closeout Pending:

Construction Amount Invoiced (C5A/B): \$11,865,520.08 corresponding to 100% of the revised final contract amount, through 6/30/17.

Schedule Status: Completed 12/31/16, on time, based on revised completion, as established by Change Order.

- City of Utica Use Agreement for access paths is pending; awaiting final authorization.

Contract 6 – Complete

Contract 7 (NIEA Emergency Rehab) – Complete

NESPS Odor/Corrosion Mitigation System (No Segmnt or Contract No.)

Engineering Consultant: LG Design, Inc., subsidiary of Jacobs Engineering

Prime Construction Contractor: CSM Mechanical, LLC

Project Budget Summary:

- BioAir Solutions, LLC for Bio-Trickling Filter (BTF) Fabrication: \$816,570.00
- CSM Mechanical, LLC (Original Contract Value): \$3,783,390.00
- CSM Mechanical, LLC (Adjusted Contract Value w/ CO No. 1 through CO No. 6): \$4,143,916.01

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- CSM Total Earned, Less Retainage, thru 5/31/2020 (Pay App No.10): \$3,688,814.94
- CSM Balance to Finish, Including Retainage (As of Pay App # 10): \$455,101.07
- Jacobs Budget (Design and CA/RPR, per EWO #3): \$1,272,470.46
- Remaining Jacobs Budget (through June 2020): \$239,943.21

Milestone Schedule Summary:

- Notice-to-Proceed letter to CSM dated August 1, 2019.
- Installation of the Bio Trickling Filter (BTF) at NESPS: Interim Substantial Completion, per Contract, was February 2, 2020. The Interim Substantial Completion extended by Change Order to April 18, 2020. Project Final completion moved up by one month, to August 28, 2020 (per C.O. No. 5)
- BTF Acclimation, Start-up and Testing: Currently in Progress.
- HVAC Improvements Substantial Completion: June 28, 2020 (Per C.O. No. 5)

Status of Major Project Tasks:

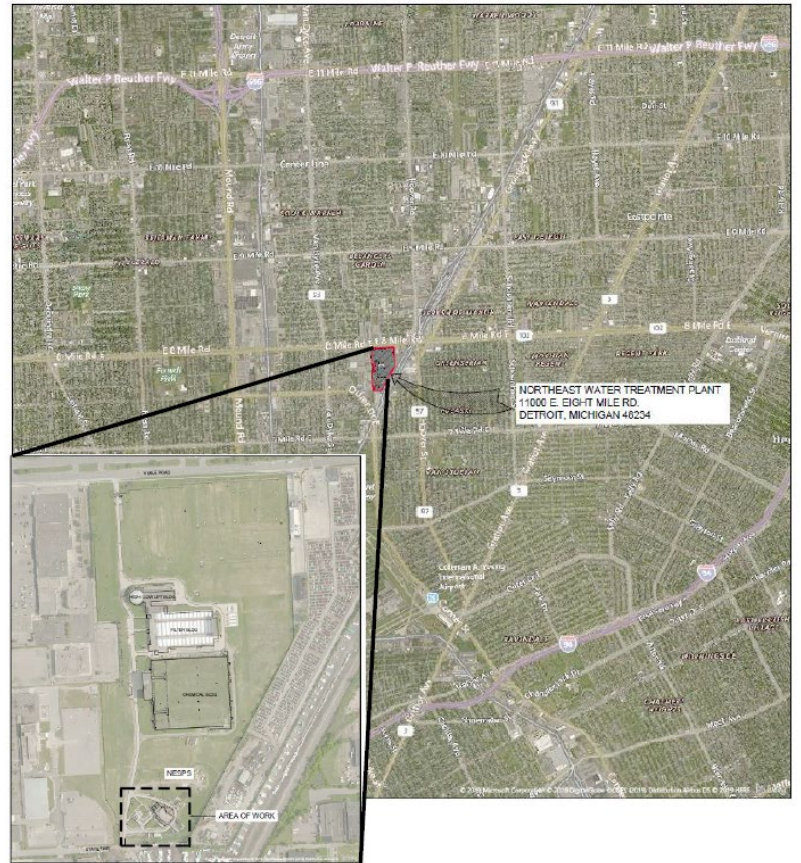
- Bi-weekly construction progress meetings continue in a virtual format.
- The installation of biotrickling filter (BTF), odor control fans, odorous air ducting, and related components have been completed. The biotrickling filter startup and commissioning process began on April 21, 2020 and nears completion. Pre-commissioning, dry commissioning, and wet commissioning has been completed and the system startup operating mode (4-6 weeks to allow for acclimation) nears completion. The biotrickling filter system is operating satisfactorily in the start-up mode, according to expectations.
- Electrical and controls wiring installation activities have been completed inside the station to provide power and controls to various components of the new HVAC system. Startup and commissioning of the HVAC system has commenced, and only minor final adjustments remain, expected to be complete in days.
- Wet well supply air make-up air units have both been installed, integrated into the HVAC controls system, and are now fully operational. Both wet well exhaust fans and associated FRP exhaust duct work have been placed above the wet well roof but are not yet operational. Final power components are now installed and the exhaust fans are pending start-up.



Biotrickling filter, FRP duct work, and wet well HVAC equipment along the north side of the Northeast Sewage Pumping Station.

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- All dry well HVAC components have been installed including power and controls and are now operational. HVAC control system components including the master control panel, gas detection panel, and associated strobes, beacons, instruments, and devices have arrived on site and all have been installed. Following final completion of power and controls wiring and conduits in June 2020, these components have been integrated into one fully functioning HVAC control system (including SCADA) and startup and commissioning is ongoing.
- Work continues on site grading for the BTF pad and adjacent areas; grade has been set and hydroseeding is scheduled for placement during the first week of July, 2020. Final aggregate base and concrete paving work will be deleted from the Odor/Corrosion Control project and added to the upcoming Pump and Electrical Rehabilitation project. The site construction trailer was moved off site on June 2, 2020.



Drywell outside air modulating dampers and actuator for HVAC system.



Wetwell make-up air unit dampers and actuator for HVAC system.

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Summary of OMID Construction Contract Status:

Seg. No	Contract No. (Description)	Const. Comp?	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Y	Y	Y	Y	Y
1	Contract 2 (CS-6, 7, 8)	Y	Y	Y	Y	Y
2	Contract 3 (Gatehouse)	Y	Y	Y*	N*	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	Y	Y	Y	N*	Y
3	Contract 4 (Lining PCI-5 thru 8)	Y	Y	Y	Y	Y
4	Contract 5 (Lining PCI-9, 10A/B)	Y	Y	Y	Y	N
4	Contract 6 (Lining PCI-11A)	Y	Y	Y	Y	Y
N/A	Contract 7 (Lining 110' of NIEA)	Y	Y	Y	Y	N/A
N/A	Odor/Corrosion Control System	N	N	N	N	N/A

* In review, pending Coating Issues Resolution and Change Order and Memo of Understanding approvals

Transfer of NESPS & NIEA Maintenance & Repairs Status:

Amt Invoiced: \$140,481 thru May out of current \$353,000 ASI engineering budget; Does not include Metco budget for ongoing maintenance.

Schedule Status: Transfer Complete; follow-on tasks ongoing

Advance modifications to facilitate the “Emergency Contingency Plan” are underway to allow pumping in the event of total power loss at NESPS or other catastrophic failure in the system:

- Drawings for modifications to accommodate upstream emergency pumping have been issued for procurement of contractors. Prices to complete the work were received and were higher than anticipated, negotiation with contractors is in progress.
- Plan to energize OMID Pump 4 in event of total power loss is complete; A demonstration of the portable generator is being set up and start of work is pending.
- Draft emergency plan document to include pumping details and traffic control from pump out locations is complete. Final document will incorporate use of media and community communication in the event of emergency. This plan will be finalized following internal review.

Additional work being performed under Metco Maintenance Contract for NESPS:

- Mechanical and Electrical corrective/preventative maintenance schedules continue to proceed without problem. Shutdown coordination with GLWA Operations for such tasks is working well.
- Monthly Maintenance Contractor meeting held. General maintenance topics discussed.
- Working with GLWA Systems Control on a more balanced approach to Sanitary Pump run time.

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Overall Station Performance Report:

- Sanitary Pumps #2, #4, #5 and #6 ready for duty. (500 CFS Capacity)
- Wet well Dewatering Pump out of regular service due to thrust bearing failure. Leakage from the (2) knife gates interfere with the Dewatering Pump removal process. Pre-Task discussions with regards to replacing wet-well isolation knife gates and removal/repair of the dewatering pump are taking place. New knife gates are anticipated to arrive onsite on the week of July 17th. Work anticipated to be completed by the end of July.
- The Sanitary Pump #1 Motor delivery status has changed. GLWA has scheduled a witness test at York's facility. This test took place Wednesday, July 1. The motor was delivered to the site on 7/2/2020. GLWA and MCE to schedule/coordinate exciter tie in and test before final turnover.
- NESPS Programmable Logic Controller (PLC) which provides Sanitary Pump #4 controls and monitors GLWA Pumps #2, #5 and #6 has been problematic requiring replacement of a few components. (Ethernet card, processor, etc.) Currently monitoring conditions.
- Elevated levels in the dry pit were found during routine inspections (sump pumps not receiving proper commands). Troubleshooting efforts revealed wiring connections and pump floats are in need of repair/replacement. A work request was generated and MCE/Rotor has inspected and devised a plan and schedule to repair. A temporary repair has kept the sump pumps working and sump pit dry without any complications.
- Original OMID ultrasonic sensor has been replaced with a new radar sensor approved by the OMID work group.
- Annual elevator safety (load) test has been scheduled based upon City of Detroit elevator inspector. Detroit Elevator has scheduled the test to take place the week of July 6th.
- GLWA issued a Shutdown Request on Monday June 30th requesting pumping operations to be suspended at the NESPS on Thursday, July 2nd from 6:00 am to 12pm. This request requires OMID system storage support from OMID/MID utilizing storage gates to prevent flooding in the wet-well. Coordination between OMID/MID and GLWA on schedule to facilitate the request. The purpose of the shutdown is to allow GLWA contractors to enter the NI-EA and perform repair work on VR gates in the system.
- Overall General Housekeeping tasks in order.

OMID Control Structure Upgrades Status:

Amt Invoiced: \$52,728 to date; Total design and construction budget currently established as \$500,000 (including contingencies and admin/legal).

Schedule Status: Engineering/Design efforts complete; CSM approved by OMIDDD Board on 11/20/19. Kickoff Meeting held 1/8/2020

- With respect to CS-5, the control structure remains out of service. Both gates are opened 100%. Hatch modification work began May 5th and stands at 90% complete. Concrete riser has been

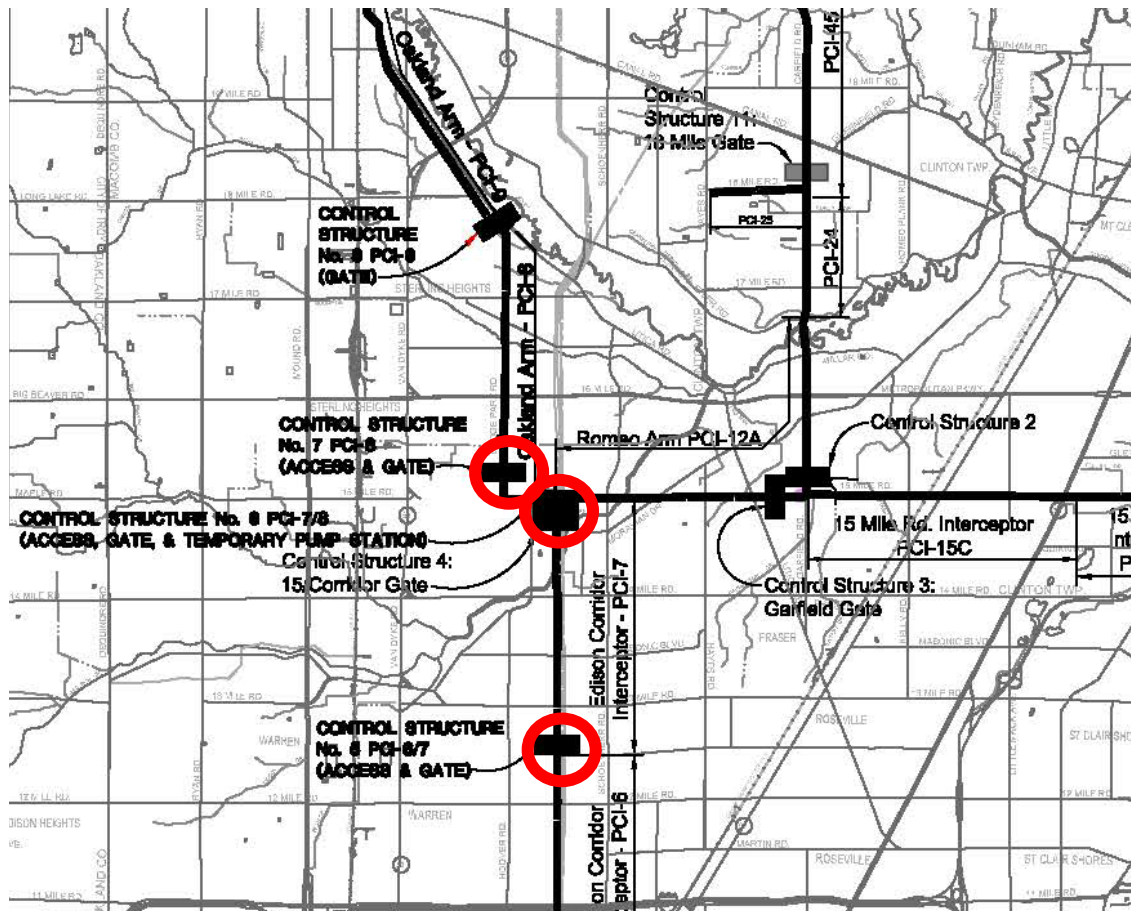
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installed, waiting on hatch cover from East Jordan. Delivery of hatch delayed due to COVID-19 related issues and restraints at the hatch foundry, which is located in France. The access hatch is scheduled to be delivered by the end of July. Site conditions have been restored. HESCO improvements, inspections, repairs, and MCET gate release curve programming, are subject to delay at this time. HESCO is on schedule to install replacement items once Lock-out Tag-out procedures are finalized.

- With respect to CS-6, Hatch modification was substantially completed on 5/15. HESCO improvements, inspections subject to delay at this time. Gate operations and feedback from sensing devices are good. Submersible Pumps, VFD Motor controls regularly cycled no problems to report. VFD shelter in good housekeeping condition, locked and secured. Pump-station housekeeping condition good.
- With respect to CS-7, CSM has received a permit from the City of Sterling Heights for work performed in City of Sterling Heights Right-of-way. Concrete mix design has been reviewed and approved by the City's consultant. Gate operations and feedback from sensing devices are good. Work at this location has been postponed pending delivery of the East Jordan access hatch. Delivery of hatch delayed; scheduled to be delivered by the end of July.
- Hesco reports that CS-8 is functional but in various stages of deterioration per HESCO condition assessment. Most components are at end of life status. Critical spare parts and long lead items are a subject of attention. HESCO has developed an inventory list.
- MCE has drafted Programmable Logic Controller (PLC) changes for gate operation as well as communications upgrades.
- Once access openings are finished, position indicators are repaired, and level sensors are installed, ASI testing will be completed.
- The **draft** line item schedule and budgets are summarized:

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractors)	Estimated Delivery Date
1	Draft PLC Mods by Metco, MCE, ASI			5/8/2019
2	Field Investigations (roof measurements, etc.)			5/30/2019
3	CS level sensors design (Metco)			7/29/2019
4	Comm. System Improvements (Metco)			8/31/2019
3	Test and implement			4/1/2020
4	50% Design Package			6/20/2019
5	95%, 100% Design Package			9/9/2019
6	Receive Bid(s) for cover mods			11/10/2019
7	Contract Award and NTP for cover mods			12/10/2019
8	Subtotal – Design	\$9,000 (ASI)		
9	PCI-5 Gate Repairs and final install of level sensors			8/31/2020
10	Substantial Completion of Construction			8/31/2020
11	Final Testing and Approval of PLC Mods			9/1/2020
12	Final Completion of Construction	\$11,000 (ASI)	\$300,000 (est.)	9/1/2020

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OMID Control Structures Upgrade Project Locations (in red)

OMID System Immediate Repairs Status:

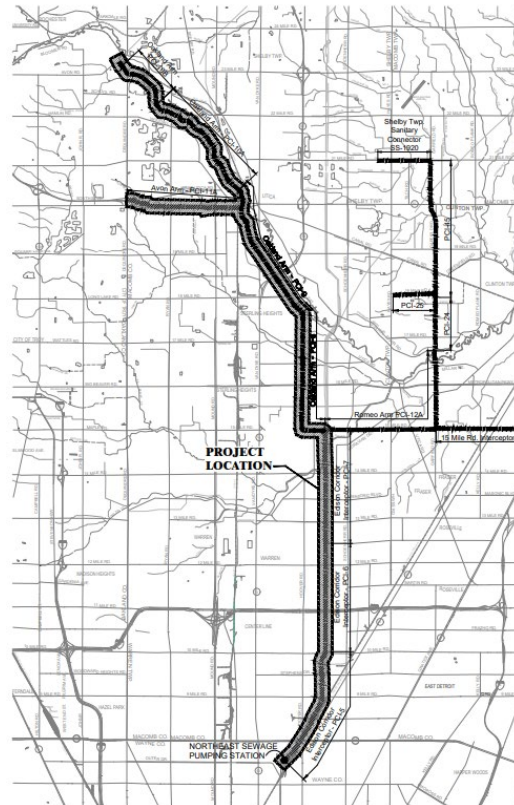
Amt Invoiced: \$42,713 out of original total design budget of \$21,418; Total design and construction budget currently is established as \$1,352,801 (including contingencies and admin/legal).

Schedule Status: Second round of bids were received on 11/6/19; awarded 11/20/19.

- Doestch Environmental was awarded the contract at the November Board Meeting.
- Field work to begin in July, pending work crew availability, completion of emergency grouting in PCI-12A, and training on Lock-out Tag-out procedures. Start of work anticipated within the next two weeks.
- The current **draft** line item schedule and budget for the OMID System Immediate Repair Project are summarized below:

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Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
1	Field Investigations (Conducted under Warranty Repairs budget)	Part of AMP Project		10/01/2018
2	50% Design Package			4/16/2019
3	95%, 100% Design Package			5/20/2019
4	Issued for Bid/Pricing			7/17/2019
5	Bid Opening (Original)			8/07/2019
6	Revised 100% Design Package			9/20/19
7	Issued for Bid/Pricing			10/8/19
8	Bid Opening (Revised)			11/6/19
6	Contract Award and NTP			1/1/20
	Subtotal - Design	\$21,418		
7	Final Completion of Construction	\$66,122	\$1,352,801	6/5/20 (initial; actual TBD)



OMID Immediate Repairs Project Location

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NIEA Repairs (Study and Design/Construction)

Amt Invoiced: \$1,419,098 out of currently projected study/design budget of \$2,400,570; Total design and construction budget currently is \$44,168,770 (including contingencies and admin/legal).

Schedule Status: Bid documents are out for PCI-4 Rehabilitation; additional field work and investigations are underway for PCI-18 & 19 rehabilitation project; PCI-4 design 100% percent complete; PCI-18 & 19 design approximately 65% complete.

- OMID/NIEA Contract 1 (PCI-4 rehab) Issued for bid documents are out for bid. Bid date recently extended to attract more bidders.
- OMID/NIEA Contract 2 (PCI-18/19 rehab) 90% design package is pending confirmation of utilities at 7-Mile, and design modification to accommodate.
- A workshop was held with GLWA representatives to discuss the Basis of Design in March 2020. More coordination meetings and discussions are coming in the near future regarding cost sharing of rehabilitation of common to all portions of the NI-EA and new control structures, easement agreement to use NESPS site for contractor laydown during PCI-4 rehabilitation, and other miscellaneous design coordination efforts. GLWA is supportive of the general approach.
- The aerial survey of the interceptor alignment is complete. The survey crews have recorded the manhole elevations as well as control points necessary to compliment the aerial survey. Additional surveys were performed at proposed shaft locations. Currently working to gather additional base map information at 7-mile adit structure location.
- Geotechnical report completed and issued with Issued for Bid design documents. Additional investigation was carried out at PCI-4 shaft location.
- Obtained Part-41 permit. Other permit coordination with municipal agencies are ongoing – City of Detroit, Wayne County, GLWA, EGLE, and MDOT.

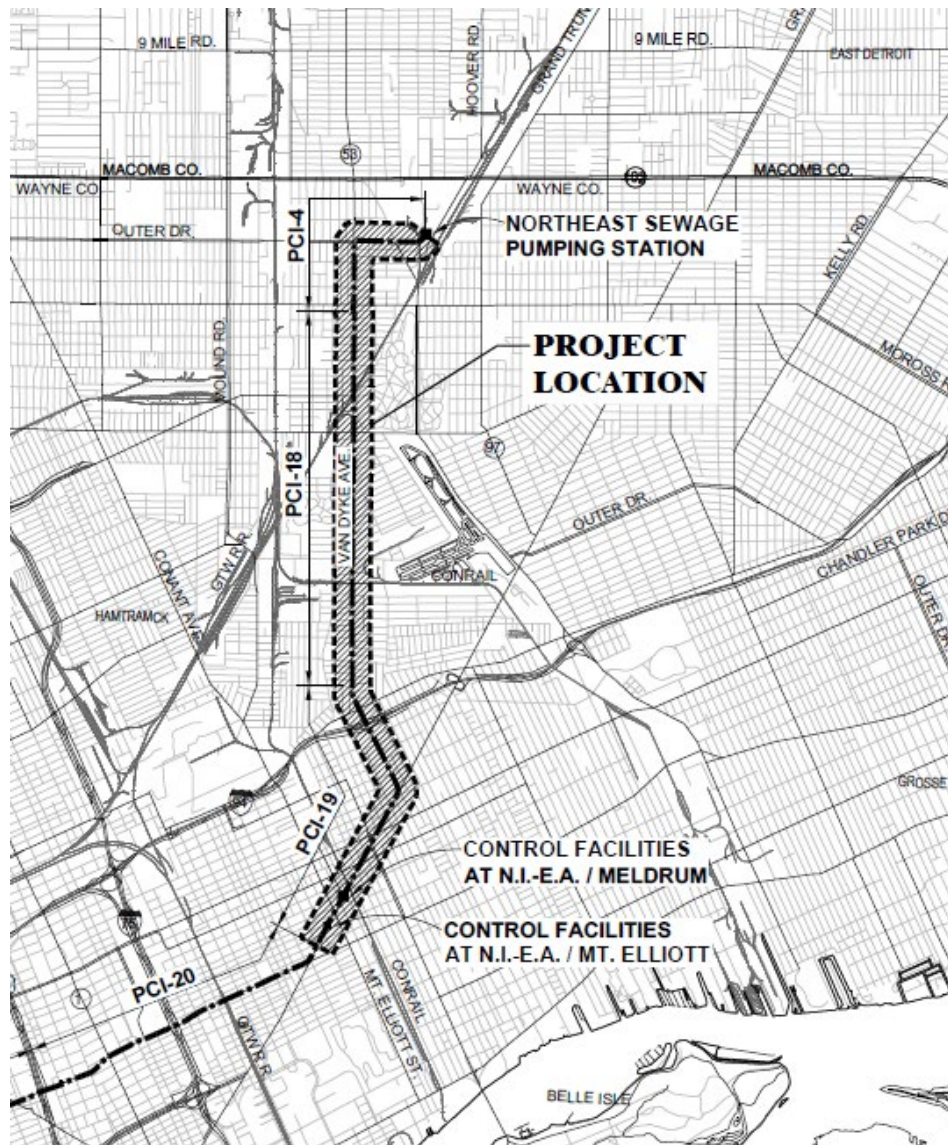
The **draft** line item schedule and budget are summarized:

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
1	Lining Study Evaluations & Draft Report			6/15/2019
2	Lining Study Final Report			10/30/2019
	Subtotal - Study	\$126,744		
3	Field Investigations (MASW, SUE, Survey, Geotech, Env. Inv)			10/30/19
4	Basis of Design Draft			9/30/2019
5	50% Design Package			8/30/2019
6	90%, 100% Design Package			3/20/2020 and 4/28/2020
7	MDEQ Submittal (Part 41)			4/28/2020*
8	Issued for Bid (OMID-NIEA Contract 1)			6/10/2020

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	Issued for Bid (OMID-NIEA Contract 2)			8/31/2020*
9	Bid Opening (OMID-NIEA Contract 1) Bid Opening (OMID-NIEA Contract 2)			9/2/2020 TBD*
10	Contract Award and NTP (OMID-NIEA Contract 1) Contract Award and NTP (OMID-NIEA Contract 2)			11/20/20 & 12/08/20 TBD*
	Subtotal - Design	\$2,400,570		
11	Final Completion (OMID-NIEA Contract 1) Final Completion (OMID-NIEA Contract 2)	\$3,500,000	\$35,000,000	07/23/2022 TBD*

*These tentative dates are for PCI-18/19 Rehabilitation.



NI-EA OMID Contracts 1 & 2 Project Location

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NESPS Electrical and Mechanical Rehab

Budget Status:	\$1,078,248 out of current design budget of \$1,382,430; Total design and construction budget currently established as \$39,300,000 (including contingencies and admin/legal).
Schedule Status:	Engineering/Design efforts underway; approximately 60% complete; Pre-procurement packages being developed.

The design team is working on the 90% total design package for review with the CMAR. With this effort, the following work is active:

- Design and CMAR Team continues to review equipment with suppliers.
- Design and CMAR Team met to review the major equipment package developed for pre-procurement: These packages are: Pump and Motor, Major Electrical (Switchgear), and Knife Gate Valve. Each of these packages were advertised in April 2020.
- Bid packages were submitted at the end of May. The knife Gate Valve bid was reviewed and has proceeded into production. The Pump and Motor and the Major Electrical Bids were received and reviewed. Final details are being resolved in order to finalize the selected manufacturer.
- Site Plan and Foundation Design package developed and is out to Bid with Bids due on 7/9/20.
- Electrical gear design for new electrical building is ongoing.
- Architectural detailing of building is ongoing.
- HVAC and plumbing designs are ongoing.
- Site layout and improvements design, including updated security requirements, ongoing.
- Site plan and foundation package was developed for site plan review and permitting. Walsh submitted to the City of Detroit for review and comments were received in June. A response to comments package is being developed.
- A review of alternative energy saving methods remains ongoing.
- Drawing and Specifications for 90% design were made available for Team and CMAR review on June 30th.
- The Design team and Walsh are working together to develop a sequence of construction, schedule, and design package arrangement. The schedule will be driven from this sequence being developed.
- Received Part 41 permit from EGLE on the acceptance and procurement for the Pumping Units proposed for the NESPS rehabilitation.
- Conducted further site visits to inspect the existing conditions of the equipment to assess replacement needs.
- Conducted environmental and hazardous material testing on site. Developed report for design team review.



***NESPS Trailers Recently Installed
to support upcoming construction***

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- Walsh team working on an updated construction schedule. Preliminary site work for Contractor laydown areas is in progress by Walsh crews.
- Walsh prepared a Construction Trailer and work area. The site was prepared with on-site fill for trailers and the main trailer sections were delivered to the site. Temporary utilities and power are in process of installation.
- The **draft** line item schedule and budget are summarized:

Work Item/ Milestone	Estimated Budget	Estimated Budget	Estimated Delivery Date
1 Draft Basis of Design			5/3/2019
2 Final Basis of Design			5/31/2019
3 30% Design			8/27/2019
CMAR RFP			10/16/2019
4 60% Design			12/19/2019
CMAR Recommendation			11/20/2019
5a 90% Equipment Package			6/15/2020
Suction Gate Rehab			5/15/2020
Site Plan/Foundation			5/15/2020 (est)
Pumping Units			5/20/2020
Major Electrical			5/20/2020
7 MDEQ Submittal (Part 41 Permit)			4/8/2020 (initial pkg)
8 90% Design Submittal			6/30/20
8 Final Package Development			8/14/2020
Subtotal - Design	\$1,519,275 (including		
10 Substantial Completion	\$2,500,000 (est.)	\$32,000,000 (est.)	3/1/2022
11 Final Completion	\$500,000 (est.)	\$5,000,000 (est.)	12/1/2022

CS-9 Gate Design

Budget Status:

Total design and construction budget currently established as \$1.7M (including contingencies and admin/legal).

Schedule Status:

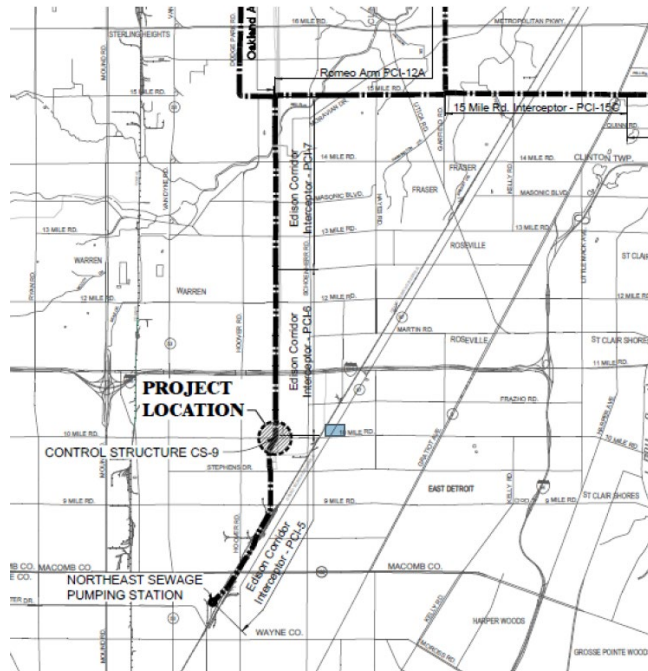
Engineering/Design efforts underway; approximately 90% complete.

The design team is working on the 100% design package for review with Walsh. With this effort, the following work is active:

- 100% package reviewed by Walsh, working to address comments received.

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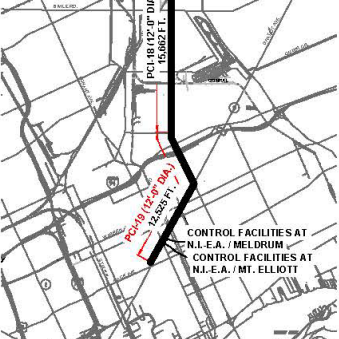
- A memo was produced and finalized analyzing the pros and cons of the potential use of the CS-5 gate at CS-9 compared to the fabrication of a new gate for CS-9. It was agreed to pursue the fabrication of a new gate at CS-9.
- Working to incorporate use of E-Builder in contract documents.
- Actuator and Gate Packages currently being developed for bidding.



CS-9 Gate Installation Project Location

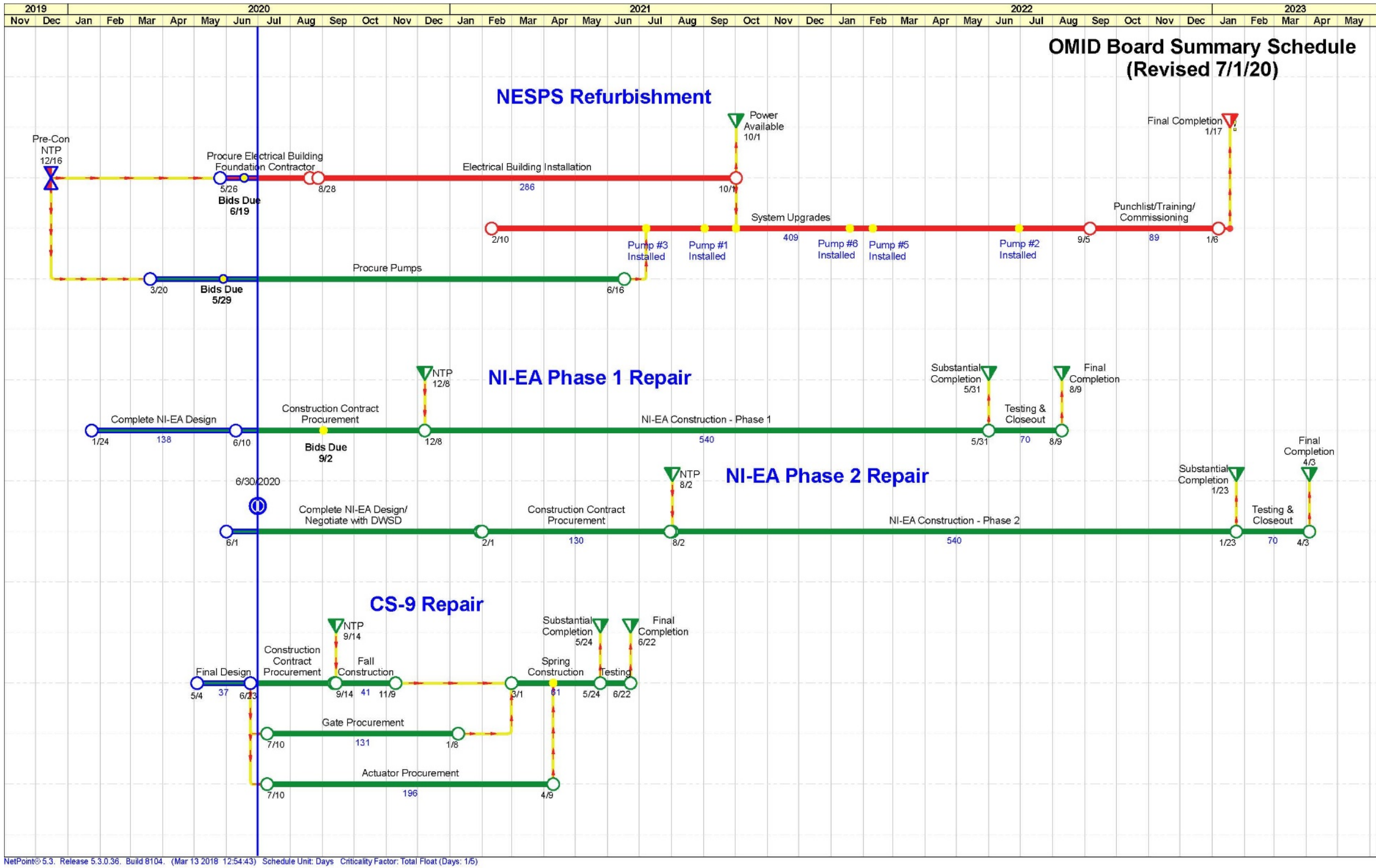
Other

- Met with EGLE to discuss continued use of existing and future gates for long term flow control and management in the OMID and NIEA systems. EGLE has no objections; OMID Team drafted letter to formalize arrangement.



Overview of OMID System on Oakland, Macomb, and Wayne County

July 15, 2020 OMIDDD Board Meeting



OMID Project Schedule Summary


Table updated on 5/6/2020. Estimates to be updated as necessary.

* Flow control from 8/20 through 6/21 will be required for sewer cleaning. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section




* Flow control from 7/21 through 12/21 is shown for sewer lining. Flow control CS requirements are defined in the "Control Devices Required to Store Flow" section.

PSPS and ELPS operations can significantly impact storage times upstream of CS-8 and subsequently downstream control structures. Coordination & alerting for ELPS, PSPS, WRC Meters 1222/1223 & 1000 required.

Y = Required to store
N = Required to not store
H = Helpful to extend work times. *If available when not required for concurrent work.*
- = Irrelevant

 Estimated Project Window
Flow Control Required
Flow Control May Be Required

* Flow control from 8/20 through 6/21 will be required for sewer cleaning. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section

	Estimated Project Window
	Flow Control Required
	Flow Control May Be Required

Agenda Item No. 10

**Financial Reports – General Financial Report and
Status of State Revolving Fund Financing and
Other Financing**

YTD Trial Balance
Fund: 84912 Oakland Macomb InterceptorSeg1
As of Fiscal Period: Month 10, 2020

Run By: WRC_REPORTING
Run: 07/08/2020 at 09:45 PM
Scope: 84912 Oakland Macomb InterceptorSeg1

ACCOUNT		YTD Balance Total Fund	OMID Odor- Corrosion Study Seg1 100000002892	YTD Balance
100100	Cash - Operating	0.00	0.00	0.00
104100	Accrued Interest on Investment	0.00	0.00	0.00
	Revenues	(749.61)	(749.61)	(749.61)
	Expenditures	106,785.29	106,785.29	106,785.29
	Special Items- Uses	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(106,035.68)	(106,035.68)	(106,035.68)
		1.07	1.07	1.07

SRF final draw received September 2013

Cash as of 07/08/2020	\$	-
Invoices / Reimbursments on Current Agenda Impacting Cash Balance		0.00
Total Net Cash Balance	\$	-

749.61	REV
106,785.29	EXP
106,035.68	Beg FB
(0.00)	End FB
0.00	CIP 1-2892

Water Resources Commissioner
PROJECT WORK IN PROGRESS
OMID Odor-Corrosion Study Seg1
100000002892
 (as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
---------------	------------------------	-----------------------	--------------

STD - Standard Operation

730639 - Engineering Services-Other	0.00	390,567.27	
Standard Operation TOTALS			
383,789.00	0.00	390,567.27	(\$6,778.27)

Project 100000002892 - OMID Odor-Corrosion Study Seg1			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$383,789.00	\$0.00	\$390,567.27	(\$6,778.27)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
655385-Income from Investments	\$1.07	\$6,778.27	
695500-Transfers In	\$0.00	\$266,792.12	
697551-Issuance of Bonds	\$0.00	\$116,996.88	
TOTAL REVENUE	\$1.07	\$390,567.27	
REVENUE OVER/(UNDER) EXPENSES		\$0.00	

YTD Trial Balance

Fund: 84914 Oakland Macomb InterceptorSeg3

As of Fiscal Period: Month 10, 2020

Run By: WRC_REPORTING

Run: 07/08/2020 at 09:46 PM

Scope: 84914 Oakland Macomb InterceptorSeg3

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg3 100000001557	YTD Balance
100100	Cash - Operating	22,647.11	22,647.11	22,647.11
104100	Accrued Interest on Investment	(371.39)	(371.39)	(371.39)
143100	Prepaid Expenses	891.00	891.00	891.00
211100	Due to Primary Government	(25.79)	(25.79)	(25.79)
	Revenues	(412.39)	(412.39)	(412.39)
	Expenditures	3,420.12	3,420.12	3,420.12
	Special Items- Uses	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(26,148.66)	(26,148.66)	(26,148.66)
		0.00	0.00	0.00

Cash as of 07/08/2020 \$ 22,647.11

Invoices / Reimbursements on Current Cash Balance 0.00

Total Net Cash Balance \$ 22,647.11

412.39 REV

3,420.12 EXP

26,148.66 Beg FB

23,140.93 End FB

23,140.93 CIP 1-1557

Water Resources Commissioner

PROJECT WORK IN PROGRESS

Oakland Macomb InterceptorSeg3

10000001557

(as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
---------------	------------------------	-----------------------	--------------

ADM - Administration

730772 - Freight and Express	0.00	237.38	
730926 - Indirect Costs	0.00	87,973.15	
730940 - Insurance	0.00	374,816.24	
731521 - Public Services	0.00	72,238.27	
732018 - Travel and Conference	0.00	160.44	
771638 - Drain Equip Labor	0.00	216,953.03	
771639 - Drain Equipment	0.00	19,268.57	

Administration TOTALS

460,138.00	0.00	771,647.08	(\$311,509.08)
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CONT - Contingency
Contingency TOTALS

4,581,277.00	0.00	0.00	\$4,581,277.00
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ENG - Engineering

702000 - Salaries	0.00	37.74	
722000 - Fringe Benefits	0.00	-25.90	
730772 - Freight and Express	0.00	85.13	
731346 - Personal Mileage	0.00	528.54	
731521 - Public Services	0.00	41,759.18	
732018 - Travel and Conference	0.00	5,546.06	
750140 - Employee Footwear	0.00	75.00	
771638 - Drain Equip Labor	0.00	619,287.86	
771639 - Drain Equipment	0.00	62,383.73	

Engineering TOTALS

1,063,145.00	0.00	729,677.34	\$333,467.66
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other	0.00	12,856,549.06	
730940 - Insurance	0.00	2,435.63	
731458 - Professional Services	0.00	62,241.27	

Engineering Consultant TOTALS

12,471,892.00	0.00	12,921,225.96	(\$449,333.96)
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FAC - Facility Acquisition

731472 - Project Construction and Impr	0.00	50,234,735.34	
731521 - Public Services	0.00	2,240.68	

Facility Acquisition TOTALS

45,738,545.00	0.00	50,236,976.02	(\$4,498,431.02)
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FRINGE_BENEFITS - Fringe Benefits

722000 - Fringe Benefits	0.00	25.90	
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Fringe Benefits TOTALS

0.00	0.00	25.90	(\$25.90)
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INS - Inspection

731521 - Public Services	0.00	37,329.11	
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Inspection TOTALS

330,221.00	0.00	37,329.11	\$292,891.89
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LEGAL - Legal and Financial

Water Resources Commissioner
PROJECT WORK IN PROGRESS
Oakland Macomb InterceptorSeg3
100000001557
 (as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
730639 - Engineering Services-Other	0.00	209,748.13	
730772 - Freight and Express	0.00	127.71	
730940 - Insurance	0.00	2,894,717.09	
731073 - Legal Services	0.00	449,564.79	
731451 - Prof Svc-Financial Consultant	0.00	62,305.00	
Legal and Financial TOTALS			
3,737,066.00	0.00	3,616,462.72	\$120,603.28

ROW - Right of Way

731038 - Land and Easement	0.00	226,383.45	
731661 - RW Negotiation and Expense	0.00	1,750.00	
Right of Way TOTALS			
11,440.00	0.00	228,133.45	(\$216,693.45)

Project 100000001557 - Oakland Macomb InterceptorSeg3			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$68,393,724.00	\$0.00	\$68,541,477.58	(\$147,753.58)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$3,253,724.00	
631827-Reimb General	\$0.00	\$43,882.94	
655077-Accrued Interest Adjustments	\$6.30	(\$371.39)	
655385-Income from Investments	\$18.50	\$127,382.96	
697753-State Revolving Fund Loans	\$0.00	\$65,140,000.00	
TOTAL REVENUE	\$24.80	\$68,564,618.51	
REVENUE OVER/(UNDER) EXPENSES		\$23,140.93	

YTD Trial Balance
Fund: 84915 Oakland Macomb InterceptorSeg4
As of Fiscal Period: Month 10, 2020

Run By: WRC_REPORTING
Run: 07/08/2020 at 09:46 PM
Scope: 84915 Oakland Macomb InterceptorSeg4

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg4 100000001913	NESPS Pump Install Seg4 100000002041	OMI NESPS GATEHOUSE SEG4 100000002232	NESPS Odor Corrosion Stdy Seg4 100000002708	YTD Balance
100100	Cash - Operating	1,073,021.09	851,248.33	7,978.67	33,531.22	180,262.87	1,073,021.09
101900	Fund Cash Transaction	0.00	0.00	0.00	0.00	0.00	0.00
104100	Accrued Interest on Investment	42,272.57	42,272.57	0.00	0.00	0.00	42,272.57
211100	Due to Primary Government	(18,184.39)	(12,400.01)	0.00	0.00	(5,784.38)	(18,184.39)
	Revenues	(73,000.97)	2,429,021.31	0.00	0.00	(2,502,022.28)	(73,000.97)
697551	Issuance of Bonds	0.00	2,765,393.05	0.00	0.00	(2,765,393.05)	0.00
	Expenditures	4,400,256.59	48,812.07	0.00	47,481.62	4,303,962.90	4,400,256.59
	Special Items- Uses	0.00	0.00	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(5,424,364.89)	(6,124,347.32)	(7,978.67)	(81,012.84)	788,973.94	(5,424,364.89)
		0.00	(0.00)	0.00	0.00	0.00	0.00

SRF (SAW Loan) final draw request received January 2017.

Cash as of 07/08/2020	\$	1,073,021.09
Invoices/Reimbursements for Seg 4 on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS Gatehouse on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS NIEA-East Arm on Current Agenda impacting Cash Balance		(96.81)
Invoices/Reimbursements for NESPS Odor Corrosion Study on Current Agenda impacting Cash Balance		0.00
Total Net Cash Balance	\$	1,072,924.28

73,000.97	REV
4,400,256.59	EXP
5,424,364.89	Beg FB
1,097,109.27	End FB
881,120.89	CIP 1-1913
7,978.67	CIP 1-2041
33,531.22	CIP 1-2232
174,478.49	CIP 1-2708
1,097,109.27	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

Oakland Macomb InterceptorSeg4

100000001913

(as of July 8, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730926 - Indirect Costs		0.00	59,001.44	
730940 - Insurance		0.00	67,871.13	
731115 - Licenses and Permits		0.00	320,000.00	
731521 - Public Services		0.00	14,235.58	
732165 - Workshops and Meeting		0.00	29.66	
771638 - Drain Equip Labor		0.00	4,607.71	
771639 - Drain Equipment		0.00	269.47	
Administration TOTALS				
	390,165.00	0.00	466,014.99	(\$75,849.99)
ENG - Engineering				
731346 - Personal Mileage		0.00	11,174.42	
731521 - Public Services		0.00	40,605.00	
771638 - Drain Equip Labor		1,713.00	744,202.36	
771639 - Drain Equipment		164.40	81,888.64	
Engineering TOTALS				
	484,153.00	1,877.40	877,870.42	(\$393,717.42)
ENGCON - Engineering Consultant				
730639 - Engineering Services-Other		0.00	3,594,242.60	
731073 - Legal Services		0.00	108.00	
Engineering Consultant TOTALS				
	3,275,248.00	0.00	3,594,350.60	(\$319,102.60)
FAC - Facility Acquisition				
731472 - Project Construction and Impr		0.00	14,058,313.68	
731521 - Public Services		0.00	6,798.84	
750294 - Material and Supplies		0.00	228.00	
Facility Acquisition TOTALS				
	15,225,614.00	0.00	14,065,340.52	\$1,160,273.48
INS - Inspection				
730373 - Contracted Services		0.00	473.03	
731521 - Public Services		0.00	16,935.91	
Inspection TOTALS				
	17,408.00	0.00	17,408.94	(\$0.94)
LEGAL - Legal and Financial				
730639 - Engineering Services-Other		0.00	8,398.96	
730940 - Insurance		0.00	54,526.58	
731073 - Legal Services		0.00	124,753.11	
793938 - Discount on Bonds		0.00	6,964.10	
Legal and Financial TOTALS				
	191,321.00	0.00	194,642.75	(\$3,321.75)
ROW - Right of Way				
731563 - Recording Fees		0.00	50.67	
Right of Way TOTALS				
	0.00	0.00	50.67	(\$50.67)

Water Resources Commissioner
PROJECT WORK IN PROGRESS
Oakland Macomb InterceptorSeg4
100000001913
 (as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
Project 100000001913 - Oakland Macomb InterceptorSeg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$19,583,909.00	\$1,877.40	\$19,215,678.89	\$368,230.11
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$8,698,707.12	
615572-State Capital Grants	\$0.00	\$1,105,350.77	
655077-Accrued Interest Adjustments	\$465.84	\$42,272.57	
655385-Income from Investments	\$1,367.37	\$647,615.77	
697551-Issuance of Bonds	\$0.00	\$1,112,853.55	
697753-State Revolving Fund Loans	\$0.00	\$8,490,000.00	
TOTAL REVENUE	\$1,833.21	\$20,096,799.78	
REVENUE OVER/(UNDER) EXPENSES		\$881,120.89	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Pump Install Seg4

100000002041

(as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration

730926 - Indirect Costs	0.00	535.47	
Administration TOTALS			
5,000.00	0.00	535.47	\$4,464.53

ENG - Engineering

771638 - Drain Equip Labor	0.00	9,128.98	
771639 - Drain Equipment	0.00	387.33	
Engineering TOTALS			
15,000.00	0.00	9,516.31	\$5,483.69

ENGCON - Engineering Consultant

730639 - Engineering Services-Other	0.00	181,969.55	
Engineering Consultant TOTALS			
200,000.00	0.00	181,969.55	\$18,030.45

FAC - Facility Acquisition

Facility Acquisition TOTALS			
3,268,155.00	0.00	0.00	\$3,268,155.00

Project 100000002041 - NESPS Pump Install Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$3,488,155.00	\$0.00	\$192,021.33	\$3,296,133.67
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$200,000.00	
TOTAL REVENUE	\$0.00	\$200,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$7,978.67	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

OMI NESPS GATEHOUSE SEG4

100000002232

(as of July 8, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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ADM - Administration

730926 - Indirect Costs	0.00	852.60	
771638 - Drain Equip Labor	0.00	53.43	

Administration TOTALS

9,472.00	0.00	906.03	\$8,565.97
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CONT - Contingency
Contingency TOTALS

93,209.00	0.00	0.00	\$93,209.00
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ENG - Engineering

771638 - Drain Equip Labor	0.00	11,237.79	
771639 - Drain Equipment	0.00	502.28	

Engineering TOTALS

59,699.00	0.00	11,740.07	\$47,958.93
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other	0.00	1,244,764.18	
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Engineering Consultant TOTALS

496,981.00	0.00	1,244,764.18	(\$747,783.18)
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FAC - Facility Acquisition

731472 - Project Construction and Impr	0.00	3,456,264.64	
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Facility Acquisition TOTALS

3,748,637.00	0.00	3,456,264.64	\$292,372.36
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INS - Inspection

771638 - Drain Equip Labor	0.00	1,277.93	
771639 - Drain Equipment	0.00	59.93	

Inspection TOTALS

5,000.00	0.00	1,337.86	\$3,662.14
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LEGAL - Legal and Financial

731073 - Legal Services	0.00	1,456.00	
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Legal and Financial TOTALS

6,000.00	0.00	1,456.00	\$4,544.00
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Project 100000002232 - OMI NESPS GATEHOUSE SEG4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$4,418,998.00	\$0.00	\$4,716,468.78	(\$297,470.78)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$2,434,988.28	
697551-Issuance of Bonds	\$0.00	\$2,315,011.72	
TOTAL REVENUE	\$0.00	\$4,750,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$33,531.22	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Odor Corrosion Stdy Seg4

100000002708

(as of July 8, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730926 - Indirect Costs		0.00	5,784.38	
Administration TOTALS				
188,148.00		0.00	5,784.38	\$182,363.62
CONT - Contingency				
Contingency TOTALS				
637,000.00		0.00	0.00	\$637,000.00
ENG - Engineering				
771638 - Drain Equip Labor		831.30	101,125.36	
771639 - Drain Equipment		21.92	3,838.24	
Engineering TOTALS				
206,253.00		853.22	104,963.60	\$101,289.40
ENGCON - Engineering Consultant				
730373 - Contracted Services		0.00	486,018.56	
730639 - Engineering Services-Other		0.00	59,195.44	
Engineering Consultant TOTALS				
1,073,000.00		0.00	545,214.00	\$527,786.00
FAC - Facility Acquisition				
730352 - Construction		0.00	571,066.40	
731472 - Project Construction and Impr		0.00	3,571,079.17	
Facility Acquisition TOTALS				
4,600,000.00		0.00	4,142,145.57	\$457,854.43
INS - Inspection				
771638 - Drain Equip Labor		5,476.96	149,414.67	
771639 - Drain Equipment		792.43	23,461.76	
Inspection TOTALS				
190,343.00		6,269.39	172,876.43	\$17,466.57
LEGAL - Legal and Financial				
Legal and Financial TOTALS				
15,000.00		0.00	0.00	\$15,000.00
ROW - Right of Way				
Right of Way TOTALS				
46,000.00		0.00	0.00	\$46,000.00
STD - Standard Operation				
730352 - Construction		0.00	198,018.10	
730373 - Contracted Services		0.00	600,395.51	
730926 - Indirect Costs		0.00	1,864.90	
730940 - Insurance		0.00	184,130.93	
731073 - Legal Services		0.00	1,744.00	
731472 - Project Construction and Impr		0.00	51,390.00	
731906 - Testing Services		0.00	31,382.05	
771638 - Drain Equip Labor		0.00	2,897.54	
771639 - Drain Equipment		0.00	1,129.83	
Standard Operation TOTALS				
38,010.00		0.00	1,072,952.86	(\$1,034,942.86)

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Odor Corrosion Stdy Seg4

100000002708

(as of July 8, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
SUR - Survey Crew				
Survey Crew TOTALS				
	10,246.00	0.00	0.00	\$10,246.00

Project 100000002708 - NESPS Odor Corrosion Stdy Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$7,004,000.00	\$7,122.61	\$6,043,936.84	\$960,063.16
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$2,906,280.60	
697551-Issuance of Bonds	\$0.00	\$3,312,134.73	
TOTAL REVENUE	\$0.00	\$6,218,415.33	
REVENUE OVER/(UNDER) EXPENSES		\$174,478.49	

**County of Oakland
OMIDD Maintenance Fund
Statement of Net Position
June 30, 2020**

ASSETS

Current assets:

Cash	\$ 25,943,859.39
Accrued interest receivable	66,563.09
Accounts receivable	300,000.00
Due from municipalities	4,585,548.67
Prepaid Expenses	500.00
 Total assets	 <u>\$ 30,896,471.15</u>

LIABILITIES

Current liabilities:

Vouchers payable	5,915,504.61
Deposits	1,250.00
Due to Primary Government	31,942.04
Total current liabilities	<u>5,948,696.65</u>
 Total liabilities	 <u>\$ 5,948,696.65</u>

NET POSITION

FB Major Maint Reserve	3,198,124.16
FB Capital Improvement Reserve	5,598,913.54
FB Restricted Programs	16,150,736.80
Total net position	<u><u>\$ 24,947,774.50</u></u>

**NOTE: This report presents pre-closing figures and as such
are subject to change**

Oakland County - Water Resources Commissioner's Office
Fund Equity: Schedule of Reserves and Dedicated Funds
As of Date: June 30, 2020

Fund	Description	Major Maintenance	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	3,198,124.16	5,598,913.54	16,150,736.80		24,947,774.50
84912	OMIDD Seg 1					
	- Project 1-2892 Odor Corrosion Study				-	-
84914	OMIDD Seg 3					
	- Project 1-1557 Interceptor Seg 3				23,140.93	23,140.93
84915	OMIDD Seg 4					
	- Project 1-1913 Interceptor Seg 4				881,120.89	881,120.89
	- Project 1-2041 NESPS Pump Install				7,978.67	7,978.67
	- Project 1-2232 NESPS Gatehouse				33,531.22	33,531.22
	- Project 1-2708 NESPS Odor Corrosion Study				174,478.49	174,478.49
Total Equity in Maintenance and Construction Funds						<u>26,068,024.70</u>

NOTE: This report presents pre-closing figures and as such are subject to change

County of Oakland
Oakland Macomb InterceptorCh21 Fund
Statement of Revenues, Expenses, and Changes in Net Position
For the Nine Months Ended June 30, 2020
75% of The Year Complete

	Amended Budget	Actual	Favorable (Unfavorable)	YTD % of Budget
Operating revenues				
Plan Review Fees	\$ -	\$ 500.00	\$ 500.00	No Budget
Sewage Disposal Services	81,107,830.00	60,830,872.26	(20,276,957.74)	75.00%
Refund Prior Years Expenditure	0.00	1,677,950.01	1,677,950.01	No Budget
Total operating revenue:	<u>81,107,830.00</u>	<u>62,509,322.27</u>	<u>(18,598,507.73)</u>	<u>77.07%</u>
Operating expenses				
Contractual services				
Adj Prior Years Exp	0.00	1,583.90	(1,583.90)	No Budget
Bond Issuing Cost	0.00	23,993.55	(23,993.55)	No Budget
Contracted Services	5,404,570.00	701,026.43	4,703,543.57	12.97%
Electrical Service	807,780.00	600,747.46	207,032.54	74.37%
Engineering Services-Other	0.00	1,751,845.50	(1,751,845.50)	No Budget
Equipment Maintenance	0.00	220,481.70	(220,481.70)	No Budget
Equipment Repair	500,000.00	201,178.85	298,821.15	40.24%
Freight and Express	0.00	50.01	(50.01)	No Budget
Garbage and Rubbish Disposal	12,000.00	0.00	12,000.00	0.00%
Grounds Maintenance	25,000.00	0.00	25,000.00	0.00%
Insurance	1,127,300.00	811,933.35	315,366.65	72.02%
Land and Easement	0.00	31.19	(31.19)	No Budget
Legal Services	350,000.00	6,868.00	343,132.00	1.96%
Natural Gas	80,000.00	7,598.75	72,401.25	9.50%
Prof Svc-Consultant	0.00	126,959.19	(126,959.19)	No Budget
Professional Services	0.00	6,236.19	(6,236.19)	No Budget
Public Services	60,000.00	51,699.91	8,300.09	86.17%
Sewage Disposal Services	69,046,600.00	46,031,066.73	23,015,533.27	66.67%
Software Support Maintenance	10,500.00	0.00	10,500.00	0.00%
Special Projects	0.00	11,920,000.00	(11,920,000.00)	No Budget
Travel and Conference	20,000.00	0.00	20,000.00	0.00%
Water and Sewage Charges	125,210.00	14,488.64	110,721.36	11.57%
Workshops and Meeting	0.00	585.41	(585.41)	No Budget
Total contractual services	<u>77,568,960.00</u>	<u>62,478,374.76</u>	<u>15,090,585.24</u>	<u>80.55%</u>
Commodities				
Material and Supplies	<u>3,260.00</u>	<u>3,661.42</u>	<u>(401.42)</u>	<u>112.31%</u>
Total commodities	<u>3,260.00</u>	<u>3,661.42</u>	<u>(401.42)</u>	<u>112.31%</u>
Internal services				
Drain Equip Materials	180.00	0.00	180.00	0.00%
Drain Equip Labor	87,330.00	190,338.88	(103,008.88)	217.95%
Drain Equipment	1,540.00	8,569.80	(7,029.80)	556.48%
Telephone Communications	<u>10,500.00</u>	<u>0.00</u>	<u>10,500.00</u>	<u>0.00%</u>
Total internal services	<u>99,550.00</u>	<u>198,908.68</u>	<u>(99,358.68)</u>	<u>199.81%</u>
Total operating expense	<u>77,671,770.00</u>	<u>62,680,944.86</u>	<u>14,990,825.14</u>	<u>80.70%</u>
Operating income (loss)	<u>3,436,060.00</u>	<u>(171,622.59)</u>	<u>3,607,682.59</u>	<u>-4.99%</u>
Nonoperating revenues (expenses)				
Property Taxes	0.00	0.00	0.00	No Budget
Intergov General Reimbursement	0.00	0.00	0.00	No Budget
Special Assessments	0.00	6,761,333.92	6,761,333.92	No Budget
Federal Grants	0.00	0.00	0.00	No Budget
State Grants	0.00	0.00	0.00	No Budget
Income from investments	201,210.00	244,160.21	42,950.21	121.35%
Interest expense	0.00	0.00	0.00	No Budget
Contributions	0.00	0.00	0.00	No Budget
Paying agent fees	0.00	0.00	0.00	No Budget
Issuance of debt	0.00	5,205,000.00	5,205,000.00	No Budget
Capital Contributions	0.00	0.00	0.00	No Budget
Gain on Exchange of Assets	0.00	0.00	0.00	No Budget
Capital Improvement Program	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>No Budget</u>
Total nonoperating revenues (expenses)	<u>201,210.00</u>	<u>12,210,494.13</u>	<u>12,009,284.13</u>	<u>6068.53%</u>
Income (loss) before transfer	<u>3,637,270.00</u>	<u>12,038,871.54</u>	<u>8,401,601.54</u>	<u>330.99%</u>
Transfers in	0.00	0.00		
Transfers out	<u>0.00</u>	<u>0.00</u>		
Change in net position	<u>3,637,270.00</u>	<u>12,038,871.54</u>	<u>8,401,601.54</u>	<u>330.99%</u>
Net Position - beginning		<u>12,908,902.96</u>		
Net Position - ending		<u><u>24,947,774.50</u></u>		

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMI DD Meeting Date 07/15/2020

		84912	84914	84915	84915	84915	84915	84915	82912	
		1-2892	1-1557	1-1913	1-2041	1-2232	1-2232	1-2708		
<u>Payable To</u>	<u>Invoice #</u>	<u>Segment 1 - OMID Odor Corrosion Study</u>	<u>Segment 3</u>	<u>Segment 4</u>	<u>Segment 4 - NESPS Pump Install</u>	<u>Segment 4 - NESPS Gate House</u>	<u>Segment 4 - NIEA East Arm</u>	<u>Segment 4 - NESPS Odor Corrosion Study</u>	<u>Opporations & Maintanence</u>	<u>Total</u>
Oakland County *	WRC Labor/Fringes/Non-direct Labor			3,768.60		457.08		14,418.45		\$18,644.13
Oakland County *	WRC Equipment			361.68		16.44		2,101.94		\$2,480.06
Oakland County *	WRC Mileage/Parking			879.75						\$879.75
Applied Scienceec Inc.	Invoice #17 (ASI Inv. #7629) Work Through 06/27/2020								78,077.07	\$78,077.07
CDM Smith	Invoice # 90102210 Services Through 7/1/20								3,002.35	\$3,002.35
D'Angelo Brothers Inc.	Invoice # 6532-WRCOMID Service2/20/20								5,709.56	\$5,709.56
Dickenson Wright PLLC	Invoice # 1482413 Matter 012840-00418 Service through 5/31/20								840.00	\$840.00
Dickenson Wright PLLC	Invoice # 1482474 Matter 012840-00424 Service through 5/31/20								9,625.00	\$9,625.00
Inland Lakes Landscaping Corp.	Invoice # 24616 Herbicide Application 6/15/20 Control Structure #6								500.00	\$500.00
Inland Lakes Landscaping Corp.	Invoice # 24617 Herbicide Application 6/15/20 Troepher Sitte								500.00	\$500.00
METCO	Invoice # 1811-18 Through 6/28/20								43,825.12	\$43,825.12
NTH Consultants	Inv # 01 OMID NESPS Safety Manual & Crane Support Service Through 06/19/20								11,417.97	\$11,417.97
NTH Consultants	Inv # 03 OMID CS-9 Gate Design Service Through 06/19/20								20,937.64	\$20,937.64
NTH Consultants	Inv # 13 - OMIDD NI-EA Rehab Services Through 06/19/20								81,652.26	\$81,652.26
NTH Consultants	Inv # 17 - OMIDD System Immediate Repair Service Through 06/19/20								280.24	\$280.24
NTH Consultants	Inv # 51 - OMIDD NESPS Discharge Rehab Services Through 06/19/20						96.81			\$96.81
Rotor Electric Co.	Invoice # 12317 Switchgear Maint. & Testing 2/25/20								13,710.10	\$13,710.10
Rotor Electric Co.	Invoice # 12327 Switchgear Maint. & Testing 4/30/20								5,648.07	\$5,648.07
Rotor Electric Co.	Invoice # 12328 Switchgear Maint. & Testing 4/22/20								967.50	\$967.50
Rotor Electric Co.	Invoice # 12330 Switchgear Maint. & Testing 2/26/20								4,900.89	\$4,900.89
WalshConstruction Company	Invoice # 220008 Pre-Con 5 Through 06/30/20								192,867.06	\$192,867.06
Total Invoices/Reimbursements for Approval		\$0.00	\$0.00	\$5,010.03	\$0.00	\$473.52	\$96.81	\$16,520.39	\$474,460.83	\$496,561.58
	* Less WRC Charges already paid from OMI Fund	0.00	0.00	(5,010.03)		(473.52)	0.00	(16,520.39)	0.00	(22,003.94)
	** Less amount being paid from Retainage Account									0.00
Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$96.81	\$0.00	\$474,460.83	\$474,557.64

Agenda Item No. 11

Invoices

OMI Segment 4 Project - WRC Equipment Charges for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	06/18/2020	06/08/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/08/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/09/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/09/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/10/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/10/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/11/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/11/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/12/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/12/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/15/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/15/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/17/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/17/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/18/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	06/18/2020	06/18/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/19/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	06/18/2020	06/19/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/22/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/22/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/23/2020	POUSHO, ROBERT	9.00	\$21.06	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/23/2020	POUSHO, ROBERT	9.00	\$3.60	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/24/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/24/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/26/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/26/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/29/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/29/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	06/30/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	06/30/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	07/01/2020	POUSHO, ROBERT	3.00	\$7.02	ASSIGNED	PC/Computer	100000001913	ENG
834323	07/02/2020	07/01/2020	POUSHO, ROBERT	3.00	\$1.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	07/02/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	07/02/2020	07/02/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
					361.68				

OMI Segment 4 Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	06/18/2020	06/08/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/09/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/10/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/11/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/12/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/15/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/17/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/18/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	06/18/2020	06/19/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/22/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/23/2020	POUSHO, ROBERT	9.00	\$256.95	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/24/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/26/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/29/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	06/30/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	07/01/2020	POUSHO, ROBERT	3.00	\$85.65	REGULAR	WRCCON	100000001913	ENG
834323	07/02/2020	07/02/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
					3,768.60				

OMI Segment 4 Project - WRC Personal Mileage and Parking - Accounting Date Range 06/01/2020 - 06/30/2020

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Descr	Sum BU Amount
6/5/2020	84915	Oakland Macomb Interceptor Seg 4	100000001913	Oakland Macomb Interceptor Seg 4	ENG	Pousho 720 miles 6/12/2020	\$ 414.00
6/19/2020	84915	Oakland Macomb Interceptor Seg 4	100000001913	Oakland Macomb Interceptor Seg 4	ENG	Pousho 810 miles 6/26/2020	\$ 465.75
							<u>\$ 879.75</u>

OMI Segment 4 NESPS Gatehouse Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
525985	06/19/2020	06/15/2020	PARROTT, JEFFREY	2.00	\$152.36	REGULAR	WRCROW	100000002232	ENG
525985	06/19/2020	06/19/2020	PARROTT, JEFFREY	4.00	\$304.72	REGULAR	WRCROW	100000002232	ENG
					\$457.08				

OMI NESPS Gatehouse Project - WRC Equipment Charges for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
525985	06/19/2020	06/15/2020	PARROTT, JEFFREY	2.00	\$0.80	ASSIGNED	Cell Phone	100000002232	ENG
525985	06/19/2020	06/15/2020	PARROTT, JEFFREY	2.00	\$4.68	ASSIGNED	PC/Computer	100000002232	ENG
525985	06/19/2020	06/19/2020	PARROTT, JEFFREY	4.00	\$1.60	ASSIGNED	Cell Phone	100000002232	ENG
525985	06/19/2020	06/19/2020	PARROTT, JEFFREY	4.00	\$9.36	ASSIGNED	PC/Computer	100000002232	ENG
					\$16.44				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
None									\$0.00

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	06/19/2020	06/16/2020	LOCKHART, SIDNEY	1.00	122.94	REGULAR	WRCADM	100000002708	ENG
			LOCKHART, SIDNEY Total		122.94				
866220	06/09/2020	06/08/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/09/2020	06/09/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/10/2020	06/10/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/11/2020	06/11/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/15/2020	06/15/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/17/2020	06/16/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/17/2020	06/17/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
866220	06/18/2020	06/18/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	06/23/2020	06/23/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	06/24/2020	06/24/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	06/25/2020	06/25/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	06/29/2020	06/29/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	06/30/2020	06/30/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	07/01/2020	07/01/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
951584	07/02/2020	07/02/2020	CODE, JEFFREY	1.00	68.37	REGULAR	WRCCDM	100000002708	INS
			CODE, JEFFREY Total		1,025.55				
866220	06/09/2020	06/08/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/10/2020	06/09/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/12/2020	06/10/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/12/2020	06/11/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/12/2020	06/12/2020	ROBERTS, PATRICK	8.50	545.45	OVERTIME	WRCCDM	100000002708	INS
866220	06/15/2020	06/15/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/17/2020	06/16/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
866220	06/17/2020	06/17/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/18/2020	06/18/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/19/2020	06/19/2020	ROBERTS, PATRICK	9.00	577.53	OVERTIME	WRCCDM	100000002708	INS
951584	06/23/2020	06/22/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/24/2020	06/23/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	0.50	32.09	OVERTIME	WRCCDM	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	7.00	396.06	REGULAR	WRCCDM	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	2.50	160.43	OVERTIME	WRCCDM	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/26/2020	06/26/2020	ROBERTS, PATRICK	7.00	449.19	OVERTIME	WRCCDM	100000002708	INS
951584	06/29/2020	06/29/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	06/30/2020	06/30/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	07/01/2020	07/01/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
951584	07/02/2020	07/02/2020	ROBERTS, PATRICK	10.00	565.80	REGULAR	WRCCDM	100000002708	INS
			ROBERTS, PATRICK Total		10,647.75				
864521	06/08/2020	05/26/2020	BROWN, JOEL	1.50	155.87	REGULAR	WRCCON	100000002708	ENG
864521	06/08/2020	05/27/2020	BROWN, JOEL	2.00	207.82	REGULAR	WRCCON	100000002708	ENG
864521	06/08/2020	05/29/2020	BROWN, JOEL	1.50	155.87	REGULAR	WRCCON	100000002708	ENG
864521	06/08/2020	06/01/2020	BROWN, JOEL	1.50	155.87	REGULAR	WRCCON	100000002708	ENG
864521	06/08/2020	06/03/2020	BROWN, JOEL	2.00	207.82	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/08/2020	BROWN, JOEL	0.50	51.96	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/09/2020	BROWN, JOEL	2.00	207.82	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/11/2020	BROWN, JOEL	1.00	103.91	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/12/2020	BROWN, JOEL	1.00	103.91	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/15/2020	BROWN, JOEL	0.50	51.96	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/16/2020	BROWN, JOEL	0.50	51.96	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/18/2020	BROWN, JOEL	1.50	155.87	REGULAR	WRCCON	100000002708	ENG
864521	06/22/2020	06/19/2020	BROWN, JOEL	1.00	103.91	REGULAR	WRCCON	100000002708	ENG
			BROWN, JOEL Total		1,714.55				
948879	06/11/2020	06/09/2020	EDWARDS, RYAN	8.50	427.30	REGULAR	WRCSMU	100000002708	STD
			EDWARDS, RYAN Total		427.30				
948879	06/11/2020	06/09/2020	KOLASZ, DAVID	8.50	479.23	REGULAR	WRCSMU	100000002708	STD
			KOLASZ, DAVID Total		479.23				
948879	06/15/2020	06/15/2020	WAGNER, DENISE	0.02	1.13	REGULAR	WRCSMU	100000002708	STD
			WAGNER, DENISE Total		1.13				
			Grand Total		14,418.45				

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Equipment Charges for Trans Dates - 06/06/2020 - 07/03/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	06/08/2020	05/26/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/08/2020	05/26/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/08/2020	05/27/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/08/2020	05/27/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/08/2020	05/29/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/08/2020	05/29/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/08/2020	06/01/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/08/2020	06/01/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/08/2020	06/03/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/08/2020	06/03/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/08/2020	BROWN, JOEL	0.50	\$0.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/08/2020	BROWN, JOEL	0.50	\$1.17	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/09/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/09/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/11/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/11/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/12/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/12/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/15/2020	BROWN, JOEL	0.50	\$0.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/15/2020	BROWN, JOEL	0.50	\$1.17	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/16/2020	BROWN, JOEL	0.50	\$0.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/16/2020	BROWN, JOEL	0.50	\$1.17	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/18/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/18/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/22/2020	06/19/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	06/22/2020	06/19/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
			BROWN, JOEL Total		\$45.21				
866220	06/09/2020	06/08/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/09/2020	06/08/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/09/2020	06/08/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/09/2020	06/09/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/09/2020	06/09/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/09/2020	06/09/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/10/2020	06/10/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/10/2020	06/10/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/10/2020	06/10/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/11/2020	06/11/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/11/2020	06/11/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/11/2020	06/11/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/15/2020	06/15/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/15/2020	06/15/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/15/2020	06/15/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/17/2020	06/16/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/17/2020	06/16/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/17/2020	06/16/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/17/2020	06/17/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/17/2020	06/17/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/17/2020	06/17/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/18/2020	06/18/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/18/2020	06/18/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	06/18/2020	06/18/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/23/2020	06/23/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	06/23/2020	06/23/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/23/2020	06/23/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/24/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/24/2020	06/24/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/24/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	06/25/2020	06/25/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	06/25/2020	06/25/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	06/25/2020	06/25/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/29/2020	06/29/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	06/29/2020	06/29/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	06/29/2020	06/29/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/30/2020	06/30/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	06/30/2020	06/30/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/30/2020	06/30/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	07/01/2020	07/01/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS

951584	07/01/2020	07/01/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	07/01/2020	07/01/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	07/02/2020	07/02/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	07/02/2020	07/02/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	07/02/2020	07/02/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
			CODE, JEFFREY Total		\$126.45				
948879	06/11/2020	06/09/2020	EDWARDS, RYAN	8.50	\$19.89	ASSIGNED	PC/Computer	100000002708	STD
948879	06/11/2020	06/09/2020	EDWARDS, RYAN	8.50	\$3.40	ASSIGNED	Cell Phone	100000002708	STD
			EDWARDS, RYAN Total		\$23.29				
948879	06/11/2020	06/09/2020	KOLASZ, DAVID	8.50	\$19.89	ASSIGNED	PC/Computer	100000002708	STD
948879	06/11/2020	06/09/2020	KOLASZ, DAVID	8.50	\$48.37	ASSIGNED	3/4 Ton Pick-up	100000002708	STD
948879	06/11/2020	06/09/2020	KOLASZ, DAVID	8.50	\$3.40	ASSIGNED	Cell Phone	100000002708	STD
			KOLASZ, DAVID Total		\$71.66				
864521	06/19/2020	06/16/2020	LOCKHART, SIDNEY	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	06/19/2020	06/16/2020	LOCKHART, SIDNEY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	06/19/2020	06/16/2020	LOCKHART, SIDNEY	1.00	\$5.69	ASSIGNED	Blazer/Suburbans	100000002708	ENG
864521	06/19/2020	06/16/2020	LOCKHART, SIDNEY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
			LOCKHART, SIDNEY Total		\$8.68				
866220	06/09/2020	06/08/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/09/2020	06/08/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/09/2020	06/08/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/10/2020	06/09/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/10/2020	06/09/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/10/2020	06/09/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/12/2020	06/10/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/12/2020	06/10/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/12/2020	06/10/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/12/2020	06/11/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/12/2020	06/11/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/12/2020	06/11/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/12/2020	06/12/2020	ROBERTS, PATRICK	8.50	\$3.40	ASSIGNED	Cell Phone	100000002708	INS
866220	06/12/2020	06/12/2020	ROBERTS, PATRICK	8.50	\$19.89	ASSIGNED	PC/Computer	100000002708	INS
866220	06/12/2020	06/12/2020	ROBERTS, PATRICK	8.50	\$48.37	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/15/2020	06/15/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/15/2020	06/15/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/15/2020	06/15/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/17/2020	06/16/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
866220	06/17/2020	06/16/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/17/2020	06/16/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/17/2020	06/17/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
866220	06/17/2020	06/17/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	06/17/2020	06/17/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/18/2020	06/18/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/18/2020	06/18/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	06/18/2020	06/18/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/19/2020	06/19/2020	ROBERTS, PATRICK	9.00	\$51.21	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/19/2020	06/19/2020	ROBERTS, PATRICK	9.00	\$3.60	ASSIGNED	Cell Phone	100000002708	INS
951584	06/19/2020	06/19/2020	ROBERTS, PATRICK	9.00	\$21.06	ASSIGNED	PC/Computer	100000002708	INS
951584	06/23/2020	06/22/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	06/23/2020	06/22/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/23/2020	06/22/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/23/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/24/2020	06/23/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/23/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	7.00	\$2.80	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	7.00	\$16.38	ASSIGNED	PC/Computer	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	0.50	\$0.20	ASSIGNED	Cell Phone	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	0.50	\$1.17	ASSIGNED	PC/Computer	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	7.00	\$39.83	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/24/2020	06/24/2020	ROBERTS, PATRICK	0.50	\$2.85	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	2.50	\$1.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	2.50	\$5.85	ASSIGNED	PC/Computer	100000002708	INS
951584	06/25/2020	06/25/2020	ROBERTS, PATRICK	2.50	\$14.23	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/26/2020	06/26/2020	ROBERTS, PATRICK	7.00	\$16.38	ASSIGNED	PC/Computer	100000002708	INS
951584	06/26/2020	06/26/2020	ROBERTS, PATRICK	7.00	\$2.80	ASSIGNED	Cell Phone	100000002708	INS
951584	06/26/2020	06/26/2020	ROBERTS, PATRICK	7.00	\$39.83	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/29/2020	06/29/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS

951584	06/29/2020	06/29/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	06/29/2020	06/29/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/30/2020	06/30/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	06/30/2020	06/30/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	06/30/2020	06/30/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	07/01/2020	07/01/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	07/01/2020	07/01/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	07/01/2020	07/01/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	07/02/2020	07/02/2020	ROBERTS, PATRICK	10.00	\$4.00	ASSIGNED	Cell Phone	100000002708	INS
951584	07/02/2020	07/02/2020	ROBERTS, PATRICK	10.00	\$23.40	ASSIGNED	PC/Computer	100000002708	INS
951584	07/02/2020	07/02/2020	ROBERTS, PATRICK	10.00	\$56.90	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
			ROBERTS, PATRICK Total		\$1,555.35				
948879	06/11/2020	06/09/2020	SMU Pick Up Truck, 3/4 Ton	8.50	\$48.37	UNASSIGNED		100000002708	STD
948879	06/11/2020	06/09/2020	SMU TV Truck - 17903	8.50	\$222.87	UNASSIGNED		100000002708	STD
			SMU Pick Up Truck, 3/4 Ton - 20614 Tot		\$271.24				
948879	06/15/2020	06/15/2020	WAGNER, DENISE	0.02	\$0.01	ASSIGNED	Cell Phone	100000002708	STD
948879	06/15/2020	06/15/2020	WAGNER, DENISE	0.02	\$0.05	ASSIGNED	PC/Computer	100000002708	STD
			WAGNER, DENISE Total		\$0.06				
			Grand Total		\$2,101.94				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
None									
									\$0.00



Applied Science, Inc.

300 River Place Suite 5400 Detroit, MI 48207
Phone: (313) 567-3990 Fax: (313) 567-3750
www.asi-detroit.com

July 1, 2020

Project Invoice #17 (ASI Inv. #7629)

Joel Brown, P.E.
Civil Engineer III
Oakland County Water Resources Commissioner's Office
One Public Works Drive, Building 95 West
Waterford, MI 48328

Re: Northeast Sanitary Pump Station
Contract #5470
(ASI Job No. 1815)

Invoice Period: 5/31/20 - 6/27/20

Task No.	Task Description	Total This Invoice
1	Transition & Basis of Design	
	Total:	\$ -
	Subconsultants:	
	FK Engineering:	\$ -
	ASI Markup 5%:	\$ -
	Total:	\$ -

Task No.	Task Description	Total This Invoice
2	Design Services for Pump & Electrical Upgrades	
	Total:	\$ 15,515.00
	Subconsultants:	
	Metco Services 82912	\$ 48,090.00
	FK Engineering: 149667	\$ 3,876.75
	NTH Consultants 730639	\$ 6,047.87
	AEW 1-3020	\$ -
	ASI Markup 5%: engcon	\$ 2,900.73
	Total Due This Invoice:	\$ 76,430.35

JTB 7/5/20

Task No.	Task Description	Total This Invoice
3	Additional Special Services	
	Total:	\$ -
	Subconsultants:	
	NTH Consultants	
	FK Engineering: 82912	\$ 1,568.30
	ASI Markup 5%: 149667	\$ 78.42
	Total Due This Invoice: 730639	\$ 1,646.72
	1-3016	
	Total Due This Invoice: engcon	\$ 78,077.07
	Previous Amount Invoiced:	\$ 1,229,981.92
	Total Invoiced To-Date	\$ 1,308,058.99
	Contract Task Total:	\$ 1,755,118.00
	Amount Remaining:	\$ 447,059.01

JTB 7/5/20



645 Griswold Street
Suite 3770
Detroit MI 48226
Tel: +1(313) 963-1313

INVOICE

Please Remit To:
CDM Smith Inc.
15050 Collections Center Drive
Chicago IL 60693

Oakland County, MI
DEBBIE HACKMAN, P.E.
OAKLAND COUNTY DRAIN COMMISSIONER
ONE PUBLIC WORKS DRIVE
WATERFORD MI 48328-1907

Account Number: 000200418081
Wire Routing: 011000138
Invoice Number: 90102210
Invoice Date: 01-JUL-2020
Project Number: 95031

Amount Due : \$3,002.35

Services from April 26, 2020 to June 27, 2020

Re : OMID Flow Meter Management and Billing Support

95031 - OMID Flow Meter DM/Billing

Description	Amount
Labor	\$3,002.35
Other Direct Costs	\$0.00
Outside Professionals	\$0.00
Total Due	\$3,002.35

Description	Amount
Previously Invoiced	\$419,837.84
Invoiced ITD	\$422,840.19
Total Contract Amount	\$655,000.00
Balance Remaining	\$232,159.81
Percent Complete	64.56%

82912
Fund ~~68600~~ Dept 60001
Prog 149100 Acct 730373
Contract # 5229 Project _____
Op Unit _____
Approver Chris P. Cam



PO Box 531330
Livonia, MI 48153

TO: Oakland County WRC

ATTN: Evans Bantios

82912 - 149130 - 730660 - 6007 - Ch. 21
v#763
exp. 3/1/23

[Signature]

7/5/20

Invoice # 6532-WRCOMID

15-Mar

WRC. NE Sewage Pump Station.
Electrical Utility Verification

DESCRIPTION OF WORK COMPLETED 2-20-20		Qty.	Unit	Hrs.	Rate	Total Per Line
Supply Vactor Services and Locate Electrical. Backfill Holes With Stone						
40	Labor	4	HR	8	\$ 43.00	\$ 1,376.00
47	Dump Truck	1	HR	8	\$ 70.00	\$ 560.00
38	Excavator & Operator	1	HR	8	\$ 78.00	\$ 624.00
42	Concrete Breaker	1	HR	8	\$ 70.00	\$ 560.00
						\$ 3,120.00
Materials / Sub						
113	Stone Supply	15	Yard	-	\$ 14.45	\$ 216.75
60	Badger Vactor Contractor PER DAY Cost	1	LSx10%	-	\$ 2,157.10	\$ 2,372.81
						\$ 2,589.56
TOTAL						\$ 5,709.56

Vince D'Angelo (248) 515-1942

INVOICE DATE: JUNE 9, 2020
 INVOICE NO.: 1482413

 OAKLAND COUNTY WATER RESOURCES COMMISSIONER
 ATTORNEY & INSURANCE ADMINISTRATOR
 ONE PUBLIC WORKS DRIVE, #95
 WATERFORD, MI 48328

ATTN: Steve Korth

82912 - 155010 - 731073 - 5089 - Ch21

v#4978

CLIENT/MATTER NO.: 012840-00418

exp. 4/30/22

Steve Korth

June 11, 2020

RE: GATE OPERATION - MID

PRIVILEGED AND CONFIDENTIAL

FOR PROFESSIONAL SERVICES THROUGH MAY 31, 2020

USD

TOTAL FEES CURRENT INVOICE	\$	840.00
TOTAL CURRENT INVOICE	\$	840.00

MK 6/11/20

Remittance Instructions		
Terms: Due and Payable Upon Receipt		
Mail To:	ACH Instructions:	Wire Instructions:
Dickinson Wright PLLC 2600 W. Big Beaver Suite 300 Troy, MI 48084	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 072 000 326 Account# 38852 (Please Reference Invoice Numbers)	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 021 000 021 Swift Code: CHASUS33 (International) Account# 38852 (Please Reference Invoice Numbers)

INVOICE DATE: JUNE 9, 2020
 INVOICE NO.: 1482474

 OAKLAND COUNTY WATER RESOURCES COMMISSIONER
 ATTORNEY & INSURANCE ADMINISTRATOR
 ONE PUBLIC WORKS DRIVE, #95
 WATERFORD, MI 48328

 82912 - 149997 - 731073 - 5089 - 1-3020 - Ch. 21
 v# 4978
 exp. 4/20/30

ATTN: JOHN BASCH

Stevn Korth

June 11, 2020

CLIENT/MATTER NO.: 012840-00424

RE: REVISION OF OAKLAND COUNTY PURCHASE ORDER FOR MISCELLANEOUS WORK

PRIVILEGED AND CONFIDENTIAL

FOR PROFESSIONAL SERVICES THROUGH MAY 31, 2020

USD

TOTAL FEES CURRENT INVOICE \$ 9,625.00

TOTAL CURRENT INVOICE \$ 9,625.00

OUTSTANDING INVOICES ON THE MATTER BILLED ON THIS CURRENT INVOICE AS OF JUNE 9, 2020

<u>INVOICE</u>	<u>DATE</u>	<u>BILLED VALUE</u>	<u>PAYMENTS</u>	<u>OUTSTANDING</u>
1475174	05/13/20	10,465.00	(0.00)	10,465.00

TOTAL OUTSTANDING FROM PRIOR INVOICES \$ 10,465.00

TOTAL AMOUNT DUE \$ 20,090.00

MK 6/11/20

Remittance Instructions		
Terms: Due and Payable Upon Receipt		
Mail To:	ACH Instructions:	Wire Instructions:
Dickinson Wright PLLC 2600 W. Big Beaver Suite 300 Troy, MI 48084	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 072 000 326 Account# 38852 (Please Reference Invoice Numbers)	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 021 000 021 Swift Code: CHASUS33 (International) Account# 38852 (Please Reference Invoice Numbers)

Inland Lakes Landscaping Corp.

560 S. Telegraph Rd.

Pontiac, MI 48341

Invoice

Date	Invoice #
7/1/2020	24616
Terms	

82912 - 155020 - 730373 - 4436 - Ch. 21

v# 16044

Bill To	Job Name
OCWRC C/O George Nichols Bldg 95 West-One Public Works Dr Waterford, MI 48328	Oakland Macomb Interceptor Drain Control Structure #6 12620 15 Mile Road Sterling Heights, MI 48312

Qty	Description	Rate	Amount
	Herbicide Application 6/15/2020	500.00	500.00
	Sales Tax	6.00%	0.00
<p>Reviewed and approve this invoice</p> <p><i>George P. Nichols 7/6/20</i></p>			

			Total	\$500.00
Phone #	Fax #	E-mail	Payments/Credits	\$0.00
(248) 338-8088	(248) 338-6705	inlandlakes@comcast.net	Balance Due	\$500.00

Inland Lakes Landscaping Corp.

560 S. Telegraph Rd.

Pontiac, MI 48341

82912 - 155020 - 730373 - 4436 - Ch. 21

v# 16044

Invoice

Date	Invoice #
7/1/2020	24617
Terms	

Bill To	Job Name
OCWRC C/O George Nichols Bldg 95 West-One Public Works Dr Waterford, MI 48328	Oakland Macomb Toepfer Site Warren, MI

Qty	Description	Rate	Amount
1	Herbicide Application 6/15/2020	500.00	500.00
	Sales Tax	6.00%	0.00
<p>Reviewed and approve this invoice</p> <p><i>George P. Nichols 7/6/20</i></p>			

			Total	\$500.00
Phone #	Fax #	E-mail	Payments/Credits	\$0.00
(248) 338-8088	(248) 338-6705	inlandlakes@comcast.net	Balance Due	\$500.00



12835 Stephens Road · Warren · Michigan· 48089 · (586) 920-2620 · Fax (586) 510-4433

INVOICE NO. 1811-18

DATE: July 1, 2020

METCO PROJECT NO. 1811

INVOICE PERIOD: thru 6/28/2020

Contract ID 000000000000000000005517

Vendor ID 0000020486

TO: OMIDD

Water Resources Commissioner

One Public Works Drive

Waterford, MI 48328

Attn: Mr. Sid Lockhart, PE

Deputy Chief Engineer/Special Projects Manager

TITLE: NESPS Operation and Maintenance

Task 3.2 - Operational Plan

Task 3.2A - OMID Operations - Fund 82912, Program 149130, Account 730373

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>	
Raj Vijayendran, PE	Principal Engineer	0.0	\$ 215.00	\$ -	
Terry Moore	Operations Manager	4.0	\$ 145.00	\$ 580.00	JTB 7/5/20
Rosana Santos	Administrative Assoc.	0.0	\$ 73.79	\$ -	
Subtotal Task 3.2A:				\$ 580.00	

Task 3.2B - NEPS Operations - Fund 82912, Program 149090, Account 730373

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>	
Raj Vijayendran, PE	Principal Engineer	8.0	\$ 215.00	\$ 1,720.00	
Terry Moore	Operations Manager	74.0	\$ 145.00	\$ 10,730.00	JTB 7/5/20
Darrin Green	Staff Engineer	0.0	\$ 90.00	\$ -	
Rosana Santos	Administrative Assoc.	2.0	\$ 73.79	\$ 147.58	
Subtotal Task 3.2B:				\$ 12,597.58	
Subtotal 3.2:				\$ 13,177.58	

Task 4.0 - Maintenance & Asset Management

Task 4.3A OMID Maintenance – Fund 82912, Program 149130, Account 730646

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>	
Terry Moore	Operations Manager	2.0	\$ 145.00	\$ 290.00	JTB 7/5/20
Darrin Green	Staff Engineer	0.0	\$ 90.00	\$ -	
Subtotal Task 4.3A:				\$ 290.00	

Task 4.3B NEPS Maintenance – Fund 82912, Program 149090, Account 730646

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>	
Terry Moore	Operations Manager	80.0	\$ 145.00	\$ 11,600.00	
Terry Moore	Operations Manager (Overtime)	10.0	\$ 195.00	\$ 1,950.00	
Daniel Martel	Sr. Project Coordinator	2.0	\$ 145.00	\$ 290.00	

Sean Grant	Sr. Project Engineer	0.0	\$	145.00	\$	-
Darrin Green	Staff Engineer	160.0	\$	90.00	\$	14,400.00
Darrin Green	Staff Engineer-(Overtime)	6.0	\$	135.00	\$	810.00
Abhishek Shah	Staff Engineer	0.0	\$	90.00	\$	-
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
				Subtotal:	\$	29,050.00
				Maintenance Services (see attached invoices):	\$	1,307.54
				Subtotal Task 4.3B	\$	30,357.54
				Subtotal 4.3:	\$	30,647.54

JTB 7/5/20

TOTAL AMOUNT DUE THIS INVOICE: \$ 43,825.12

**NTH Consultants, Ltd.**Infrastructure Engineering and
Environmental Services**INVOICE**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328Invoice # : 13
Project : 61-190078
Invoice Group : NI-EA
Invoice Date : 6/29/2020

Attention: Sid Lockhart

For Professional Services Rendered from 5/23/2020 - 6/19/2020

Engineering Design Services for Rehabilitation of NI-EA Sections PCI-4

Task 01	Project Management	\$276,159.00
Task 02	Condition Assessment	\$241,609.00
Task 03	Subsurface Utility Engineering	\$65,579.00
Task 04	Basemap Survey	\$89,327.00
Task 05	Geotechnical Investigation	\$134,797.00
Task 05A	7-Mile Utility Exploration/Design	\$0.00
Task 05B	Additional Geotech for PCI-4 Shaft	\$0.00
Task 06	Environmental Study	\$60,642.00
Task 07	Basis of Design	\$379,785.00
Task 08	Rehabilitation Design	\$282,099.00
Task 09	Contract Drawings	\$235,070.00
Task 10	Contract Specifications	\$188,178.00
Task 11	Construction Costs	\$27,761.00
Task 12	Permits & Coordination	\$25,655.00
Task 13	Bidding Assistance	\$198,402.00
Task 14	Gate Automation	\$68,770.00

82912 - 149667 - 730639 - 2603 - 1-3019 - Ch. 21 -
engcon v# 4716exp. 12/31/21 LI#42499

JTB 7/5/20

Preliminary Budget Amount \$2,273,833.00
Percent Complete: 57.32%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 13,697.40	\$ 201,144.15
Overhead %	188.00	25,751.11	378,151.04
Total Regular Labor Expense		39,448.51	579,295.19
Premium Labor Cost		0	0
Total Direct Labor		39,448.51	579,295.19
Profit / Fixed Fee %	12.00	4,733.82	69,515.42
Direct Expenses Charge		45.70	19,757.76
Expense Multiplier %	5.00	2.30	987.94
Direct Subcontractor Charge		35,303.70	597,848.10
Subcontractor/Subconsultant Multiplier %	6.00	2,118.23	35,870.96
Direct Unit Rate Charge		0	0
Total Other Direct Charges Reimbursables		37,469.93	654,464.76
Total Costs:		81,652.26	1,303,275.37
Total Due This Invoice		\$ 81,652.26	\$ 1,303,275.37

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

82912 - 149662 - 730639 - 2603 -
1-3015 Ch. 21 - engcon
v# 4716exp. 12/31/21li# 24138

Invoice # : 17
Project : 61-190044
Invoice Group : REPAIRS
Invoice Date : 6/29/2020

Attention: Sid Lockhart

JL R 7/2/20

For Professional Services Rendered from

05/23/2020 - 06/19/2020

OMID System Immediate Repairs

AMP/Inspection Reports (Task 01)	\$4,587.37
Rehabilitation Design (Task 02)	\$71,617.66
Construction Observation (Task 03)	\$178,109.97
	\$254,315.00

Analysis of Costs		This Invoice	Cumulative
Direct Salaries (Task 01 & 02)		\$ 86.88	\$ 23,427.77
Overhead %	188.00	163.33	44,044.20
Total Regular Labor Expense		250.21	67,471.97
Premium Labor Cost		0	0
Total Direct Labor		250.21	67,471.97
Profit / Fixed Fee %	12.00	30.03	8,096.63
Direct Expenses Charge		0.00	330.08
Expense Multiplier %	5.00	0.00	66.51
Direct Subcontractor Charge		0.00	8,972.75
Subcontractor/Subconsultant Multiplier %	5.00	0.00	448.68
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		0.00	9,818.02
Total Costs:		280.24	85,386.62
Total Due This Invoice		\$ 280.24	\$ 85,386.62

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

84915-149015-730639-2603-2232
ENGCON
v#4716 Exp 12/31/21 LI#24138

Attention: Sid Lockhart

Invoice # : 51

Project : 61-150162

Invoice Group : NESPS CCA

Invoice Date : 6/29/2020

7/2/20

For Professional Services Rendered from

02/22/2020 - 06/19/2020

CCA and Construction Observation Services for the Emergency Rehabilitation of the NESPS Discharge Chamber

CCA / Construction Observation (Task 01)	\$437,458.04
CIP Concrete Riser Substitution (Task 02)	\$3,041.52
Continuation of NESPS CCA (Task 03)	\$522,070.69
Continuation of GLWA Coordination (Task 04)	\$41,800.92
Sterling Heights Sewer Grout Investigation (Task 05)	\$7,507.83
Preliminary Budget Amount	\$1,011,879.00
Percent Complete:	97.54%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 0.00	\$ 241,302.52
Overhead %	188.00	0.00	453,648.72
Total Regular Labor Expense		0.00	694,951.24
Premium Labor Cost		0	0
Total Direct Labor		0.00	694,951.24
Profit / Fixed Fee %	12.00	0.00	83,394.23
Direct Expenses Charge		0.00	37,430.90
Expense Multiplier %	5.00	0.00	1,871.55
Direct Subcontractor Charge		92.20	156,767.84
Subcontractor/Subconsultant Multiplier %	5.00	4.61	7,838.40
Direct Unit Rate Charge		0.00	4,655.59
Total Other Direct Charges Reimbursables		96.81	208,564.28
Total Costs:		96.81	986,909.75
Total Due This Invoice		\$ 96.81	\$ 987,006.56

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.

**NTH Consultants, Ltd.**Infrastructure Engineering and
Environmental Services**INVOICE**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 4832882912 - 149667 - 731444 - 2603 1-3019 - Ch. 21 -
engcon v#4716exp. 12/31/21li# 42499

7/5/20

Invoice # : 3
Project : 61-190439
Invoice Group : CS9
Invoice Date : 6/29/2020

Attention: Sid Lockhart

For Professional Services Rendered from

5/23/2020 - 6/19/2020

Provide engineering services for the design of a new hydraulic control gate to be installed in the existing OMID Control Structure No. 9(CS-9).

Task 01 Gate Design

\$189,426.00Preliminary Budget Amount
Percent Complete:**\$189,426.00**
64.95%**Analysis of Costs****This Invoice****Cumulative**

Direct Salaries		\$ 2,863.06	\$ 9,738.99
Overhead %	188.00	5,382.55	18,309.30
Total Regular Labor Expense		8,245.61	28,048.29
Premium Labor Cost		0	0
Total Direct Labor		8,245.61	28,048.29
Profit / Fixed Fee %	12.00	989.47	3,365.79
Direct Expenses Charge		47.94	213.43
Expense Multiplier %	5.00	2.40	10.69
Direct Subcontractor Charge		10,992.66	86,224.23
Subcontractor/Subconsultant Multiplier %	6.00	659.56	5,173.46
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		11,702.56	91,621.81
Total Costs:		20,937.64	123,035.89
Total Due This Invoice		\$ 20,937.64	\$ 123,035.89

REMIT TO: NTH Consultants, Ltd. - 41780 Six Mile Road - Suite 200 - Northville MI - 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.

**NTH Consultants, Ltd.**Infrastructure Engineering and
Environmental Services**INVOICE**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 4832882912-149662-1-2842-731906-STD-omid ch. 21
2603-V: 4716-LI#24138 Exp: 12/31/21Invoice # : 1
Project : 61-200209
Invoice Group : HSM/CSE
Invoice Date : 6/29/2020

Attention: Sid Lockhart

7/5/20

For Professional Services Rendered from Inception - 6/19/2020

Provide Engineering and Consulting Services for the OMID NESPS Safety Manual and Crane Support Evaluation. (D419)

Task 01	Health and Safety Manual	\$33,428.00
Task 02	Crane Support Evaluation	\$14,359.00
	Preliminary Budget Amount	\$47,787.00
	Percent Complete:	23.89%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 1,488.99	\$ 1,488.99
Overhead %	188.00	\$ 2,799.30	2,799.30
Total Regular Labor Expense		4,288.29	4,288.29
Premium Labor Cost		0	0
Total Direct Labor		4,288.29	4,288.29
Profit / Fixed Fee %	12.00	514.59	514.59
Direct Expenses Charge		3,170.56	3,170.56
Expense Multiplier %	5.00	158.53	158.53
Direct Subcontractor Charge		3,100.00	3,100.00
Subcontractor/Subconsultant Multiplier %	6.00	186.00	186.00
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		6,615.09	6,615.09
Total Costs:		11,417.97	11,417.97
Total Due This Invoice		\$ 11,417.97	\$ 11,417.97

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.

82912 - 149667 - 730660 - 1-3020 ENGCON
Ch 21 - 5807 v# 22125
li# 42614
exp. 6/28/22

Joel Brown

7/5/20

Rotor Electric Company of Michigan, LLC.



9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	2/25/2020	4/16/2020	12317

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$13,710.10	-	\$13,710.10	\$13,710.10	-	-
	Totals:	\$13,710.10		\$13,710.10	\$13,710.10		
	Less Retained:			-			
	Invoice Total:			\$13,710.10			

DUCT BANK INSPECTION

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."

82912 - 149090 - 730660 - Ch 21 - 5807
v# 22125
li# 42614
exp. 6/28/22

 7/5/20

Rotor Electric Company of Michigan, LLC.



9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE



OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	4/30/2020	6/8/2020	12327

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$5,648.07	-	\$5,648.07	\$5,648.07	-	-
	Totals:	\$5,648.07		\$5,648.07	\$5,648.07		
	Less Retained:			-			
	Invoice Total:			\$5,648.07			

MOTOR MAINTENANCE

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."

82912 - 149090 - 730660 - Ch 21 - 5807

v# 22125

li# 42614

exp. 6/28/22

Joel Brown

7/5/20

Rotor Electric Company of Michigan, LLC.



9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

TW

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	4/22/2020	6/8/2020	12328

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$967.50	-	\$967.50	\$967.50	-	-
	Totals:	\$967.50		\$967.50	\$967.50		
	Less Retained:			-			
	Invoice Total:			\$967.50			

MONTHLY MEETINGS

VFD MAINTENANCE PROPOSAL

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."

82912 - 149090 - 730660 - Ch 21 - 5807

v# 22125

li# 42614

exp. 6/28/22

Joel Brown

7/5/20

Rotor Electric Company of Michigan, LLC.



9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	2/26/2020	6/23/2020	12330

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$4,900.89	-	\$4,900.89	\$4,900.89	-	-
	Totals:	\$4,900.89		\$4,900.89	\$4,900.89		
	Less Retained:			-			
	Invoice Total:			\$4,900.89			

6TH FLOOR LIGHTING

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."

Project Application and Project Certificate for Payment, Construction Manager as Adviser Edition

TO OWNER: Oakland Macomb Interceptor Drain Drainage District c/o Oakland County WRC One Public Works Drive, Building 95 West Waterford, MI 48328-1907	PROJECT: OMIDDD NESPS Mech. And Elec. Improvements	APPLICATION NO: 220008 Pre-Con 5	Distribution to: <input checked="" type="checkbox"/> OWNER: <input checked="" type="checkbox"/> CONSTRUCTION MANAGER: <input type="checkbox"/> ARCHITECT: <input type="checkbox"/> OTHER:
ATTENTION: Joel T. Brown P.E.	VIA CONSTRUCTION MANAGER: CJ Pokorny Walsh Construction Company II, LLC 3031 West Grand Blvd. Ste.640 Detroit, MI 48202	PERIOD TO: 6/30/2020 OMIDDD Proj# 1-3020 FUND 82912 PROGRAM: 149667 ACCOUNT 730373 ACTIVITY ENGCON VENDOR ID 23191 LINE ITEM 43331	Expiration: 12/16/2022

PROJECT APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Project AIA Document G703, Schedule of Values, is attached for payment.

1. TOTAL CONTRACT SUMS (Item D Totals)	\$ 570,000.00
2. TOTAL NET CHANGES BY CHANGE ORDERS	\$4,042,914.45
3. TOTAL CONTRACT SUM TO DATE	\$ 4,612,914.45
4. TOTAL COMPLETED & STORED TO DATE (Item G Totals)	\$ 780,097.81
5. LESS PREVIOUS TOTAL PAYMENTS (Item J Totals)	\$587,230.75
6. CURRENT PAYMENT DUE (Item A Totals)	\$ 192,867.06

The undersigned Construction Manager certifies that to the best of its knowledge, information and belief this Project Application for Payment is an accurate compilation of the Contract's Application for Payment, attached hereto.

CONSTRUCTION MANAGER:

By:  Date: 7/6/2020

State of: Michigan

County of: Wayne

Subscribed and sworn to before me this

Notary Public:

My Commission expires: 12-01-2021

JULIE A HAYDON
Notary Public - Michigan
Lapeer County
My Commission Expires Dec 1, 2021
Acting in the County of Wayne

PROJECT CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on evaluation of the work and the data comprising this Application, the Construction Manager certifies to the Owner that to the best of its knowledge, information and belief the Work has progressed as indicated; the quality of the Work is in accordance with the Contract Documents; and the Construction Manager recommends to the Owner and Architect that the Contractors be paid the AMOUNTS set forth in the attached Schedule of Values for Payment.

TOTAL OF AMOUNTS CERTIFIED \$ 192,867.06

CONSTRUCTION MANAGER:

By:  Date: 7/6/2020

In accordance with the Contract Documents, based on evaluation of the work and the data comprising this Application, the Construction Manager's recommendation, the Architect certifies to the Owner that to the best of its knowledge, information and belief the Work has progressed as indicated; the quality of the Work is in accordance with the Contract Documents; and the Contractors are entitled to payments of the AMOUNTS set forth in the attached Schedule of Values for Payment.

ARCHITECT:

By: _____ Date: _____

Agenda Item No. 12

Other Business

Agenda Item No. 13

Adjourn