AGENDA

Oakland-Macomb Interceptor Drain Drainage Board

Macomb and Oakland Counties

December 20, 2023 – 11:30 a.m.

Office of the Macomb County Public Works Commissioner 21777 Dunham Road, Clinton Township, Michigan, and Microsoft Teams

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 December 20, 2023
- 3. Motion to approve the Drainage District Board Meeting Minutes from November 13, 2023
- 4. Public Comment
- 5. Present Memorandum for the Contract Extension for Meadowbrook Insurance Agency for the NESPS and NI-EA Projects
- 6. Present Memorandum regarding the Wet Well Bar Screen Maintenance Procedure
- 7. Motion to approve the following Engineering Work Order:
 - a) METCO Services, Inc for additional services for operation, maintenance, and management of Northeast Sewage Pumping Station and OMID System to increase the Engineering Services Agreement by a not-to-exceed amount of \$1,679,443.96
 - b) Jacobs Consultants Inc. for additional tasks and corrections to original fee proposal related to the OMID Odor and Corrosion Control System Project to increase the Engineering Services Agreement by a not-to-exceed amount of \$90,829
- 8. Motion to approve the following Change Order:
 - a) Walsh Construction Change Order No. 39 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$383,680.17
- 9. Motion to approve the following Construction Estimates:
 - a) Construction Estimate No. 38 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$188,922.61 with a transfer to the Oakland County Treasurer in the amount of \$1,462.23
 - b) Construction Estimate No. 33 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$252,500.

- c) Construction Estimate No. 4 for Z Contractors for NI-EA Contacts 2A and 2B PCI 18 and 19 Rehabilitation in the amount of \$794,951.51 with a transfer to the Oakland County Treasurer in the amount of \$88,327.95
- 10. Status of OMID Repairs Project
- 11. Financial Reports General Financial Report and Status of State Revolving Fund Financing and Other Financing

12.	Mo	tion to approve the following invoices:			
		1) Labor/Fringes/Non-Direct Labor Factor		_	
		 Segment 5 NI-EA Construction 		\$	5,089.49
		• Segment 5 NESPS Mech./Elect. Construction		\$	5,501.72
		2) Equipment Charges			
		 Segment 5 NI-EA Construction 		\$	142.37
		 Segment 5 NESPS Mech./Elect. Construction 		\$	224.94
		3) Mileage			
		 Segment 5 NESPS Mech./Elect. Construction 		\$	38.91
	a)	ASI			
		Invoice No.	NESPS	\$	59,918.21
			O&M	\$	8,062.87
	b)	Clark Hill			
		1) Invoice No. 1371149	NESPS	\$	3,595.50
		2) Invoice No. 1380412	NESPS	\$	1,224.00
		3) Invoice No. 1380507	NESPS	\$	162.00
	c)	Jacobs			
		Invoice No. C6A19900-11	O&M	\$	42,151.29
	d)	Kennedy			
		Invoice No. 639206	O&M	\$	1,648.50
	e)	Lardner Elevator			
		1) Invoice No. 199339	O&M	\$	2,318.00
		2) Invoice No. 199361	O&M	\$	10,964.00
	f)	Metco			
		Invoice No. 1811-59	O&M	\$	82,207.34
	g)	Motor City			
		1) Invoice No. 95463	O&M	\$	180.00
		2) Invoice No. 95464	O&M	\$	90.00
		3) Invoice No. 96465	O&M	\$	126.00
		4) Invoice No. 95466	O&M	\$	675.00
		5) Invoice No. 95467	O&M	\$	135.00
		6) Invoice No. 95468	O&M	\$	360.00
		7) Invoice No. 95470	O&M	\$	427.50
	h)	NTH Consultants, Ltd			
		1) NESPS Maintenance Engineering Services			
		Invoice No. 634509	O&M	\$	1,659.24
		2) OMID Rehab. 2021 Closeout Services			
		Invoice No. 634510	O&M	\$	778.10
		3) Eng/Consult. NESPS Pumping and Electrical		_	
		Invoice No. 634511	NESPS	\$	4,161.80
		4) Engineering/Consulting Services PCI-18 and PCI-19 Rehabilit	ation		

67,543.54
60,102.34
350.00
350.00
350.00
22,304.41
21,098.77

13. Other Business

14. Adjourn

Next Regular Meeting: January 17, 2024, at 11:30 a.m., Eastern Standard Time.

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 3

Board Meeting Minutes from November 13, 2023

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

November 13, 2023

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township Michigan on the 13th day of November 2023 at 1:30 p.m. Eastern Standard Time and via Microsoft Teams.

PRESENT:

Michael Gregg, Chairperson and Deputy for Dr. Tim Boring, Director of the Michigan Department of Agriculture and Rural Development; Candice Miller, Member and Macomb County Public Works Commissioner; and Anne Vaara for Jim Nash, Secretary and Oakland County Water Resources Commissioner.

OTHERS PRESENT:

Representing the office of the Macomb County Public Works Commissioner: Brian Baker and Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Steve Korth, Brian Coburn, Evans Bantios, Raphael Chirolla, Meg Koss and Stephanie Lajdziak. Others in attendance: Fritz Klingler, FK Engineering; Terry Moore, Metco; Shawn Phelps and Jeff Ragle, OC Fiscal Services; Larry Gilbert and Michelle Kitzinger, NTH Consultants; John Michalski, ASI; Brady Harrington, MDARD.

1. <u>Call meeting to order.</u>

Chairperson Gregg called the meeting to order at 1:50 p.m.

Agenda.

Motion by Miller, supported by Vaara, to approve the November 13, 2023, agenda as presented.

ADOPTED: Yeas - 3 Nays - 0

3. Minutes.

Motion by Vaara, supported by Miller, to approve the minutes of the October 18, 2023, meeting.

ADOPTED: Yeas - 3 Nays - 0

4. Public Comment.

None.

5. <u>AEW NESPS Wet Well Sediment Inspection Report</u>

Stephen Downing presented the wet well sediment inspection report of the NESPS from Anderson, Eckstein & Westrick, Inc. (AEW). It was advised that the inspections were

conducted as a precautionary measure and the sediment found did not impact the flow or performance of the pump. It was advised that inspections are no longer needed at this time.

Motion by Vaara, supported by Miller, to receive and file the AEW NESPS Wet Well Sediment Inspection report as presented.

ADOPTED: Yeas - 3 Nays - 0

6. HESCO Request for Consent to Assignment

Stephen Downing advised the Board that HESCO has formed a partnership with Brixey & Meyer Capital, LLC and the legal name of their company has changed to HESCO Group, LLC. Oakland County legal advised the consent to assignment request was suitable and agreed that it should be presented to the Board as a formality.

Motion by Miller, supported by Vaara, to authorize the Secretary to sign the Request for Consent to Assignment from HESCO as presented.

ADOPTED: Yeas - 3 Nays - 0

7. Engineering Work Orders.

The following Engineering Work Orders were submitted to the Board to approval:

a) Motor City Electric Technologies for an extension of contract # 5469 to provide instrumentation and control services and others as specified in the original contract according to the rate schedule until December 31, 2025. Motion by Miller, supported by Vaara, to approve Engineering Work Order D-464(3) as presented.

ADOPTED: Yeas - 3 Nays - 0

8. Change Order.

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

a) Walsh Construction Change Order No. 38 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$29,244.28. Motion by Vaara, supported by Miller, to approve the Change Order as presented.

ADOPTED: Yeas - 3 Nays - 0

9. Construction Pay Estimates.

The following Construction Pay Estimates were submitted to the Board for approval:

a) Construction Estimate No. 37 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$412,037.07 with a transfer to the Oakland County Treasurer in the amount of \$751.52. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3 Nays - 0

b) Construction Estimate No. 32 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$339,236.40. Motion by Miller, supported by Vaara, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3 Nays - 0

c) Construction Estimate No. 3 for Z Contractors for NI-EA Contacts 2A and 2B – PCI 18 and 19 Rehabilitation in the amount of \$753,927.60 with a transfer to the Oakland County Treasurer in the amount of \$83,769.73. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3 Nays - 0

10. <u>Report/Update – Status of OMI Project, Segments 1 through 4, NESPS and NI-EA</u>. Fritz Klingler of FK Engineering presented the Project Progress Update to the Board and summarized the status of various projects.

Motion by Vaara, supported by Miller, to receive and file the report and summary.

ADOPTED: Yeas - 3 Nays - 0

11. Financial Reports.

Shawn Phelps presented the financial reports for Segments 1 through 5 and the NESPS. Motion by Miller, supported by Vaara, to receive and file the financial reports.

ADOPTED: Yeas - 3 Nays - 0

12. Invoices.

a)

The following invoices were submitted to the Board for approval:

	8	11	
1)	Labor/Fringes/Non-Direct Labor Factor		
	 Segment 5 NI-EA Construction 		\$ 5,094.91
	• Segment 5 NESPS Mech./Elect. Cons	struction	\$ 9,247.73
2)	Equipment Charges		
	 Segment 5 NI-EA Construction 		\$ 133.93
	• Segment 5 NESPS Mech./Elect. Cons	struction	\$ 312.93
3)	Reimbursement		
	• The City of Sterling Heights	O&M	\$ 100.00
ASI			
1)	Invoice No. 56-8535	NESPS	\$ 77,924.81
		O&M	\$ 6,644.00

	2) Invoice No. 56a-8536	NESPS	\$	2,192.13
b)	Clark Hill			
	Invoice No. 1360901	NESPS	\$	11,602.50
c)	Kennedy			
	Invoice No. 636357	O&M	\$	1,712.00
d)	Lardner Elevator			
	1) Invoice No. 198731	O&M	\$	204.00
	2) Invoice No. 199161	O&M	\$	204.00
e)	Metco			
	Invoice No. 1811-58	O&M	\$	96,764.28
f)	Motor City			
	1) Invoice No. 95253A	O&M	\$	180.00
	2) Invoice No. 95330A	O&M	\$	585.00
	3) Invoice No. 95332A	O&M	\$	135.00
	4) Invoice No. 95333A	O&M	\$ \$	135.00
	5) Invoice No. 95334A	O&M	\$	315.00
	6) Invoice No. 95335A	O&M	\$	360.00
	7) Invoice No. 95336A	O&M	\$	90.00
	8) Invoice No. 95367	O&M	\$	135.00
	9) Invoice No. 95369	O&M	\$	270.00
	10) Invoice No. 95370	O&M	\$ \$ \$	450.00
	11) Invoice No. 95371	O&M	\$	405.00
	12) Invoice No. 95372	O&M	\$	180.00
	13) Invoice No. 95373	O&M	\$	270.00
g)	NTH Consultants, Ltd			
Ο,	1) Contract No. 1 PCI-4 Rehabilitation			
	Invoice No. 634228	NI-EA	\$	62,786.93
	2) Eng/Consult. NESPS Pumping and Electrical			
	Invoice No. 634229	NESPS	\$	30,079.12
	3) OMID Rehab. 2021 Closeout Services			
	Invoice No. 634230	O&M	\$	813.36
	4) NESPS Maintenance Engineering Services			
	Invoice No. 6342131	O&M	\$	1,231.28
	5) Engineering/Consulting Services PCI-18 and PCI	I-19 Rehabilita	ation	
	Invoice No. 634232	NI-EA	\$	72,084.91
h)	PM Technologies			
	1) Invoice No. 82027158	O&M	\$	3,157.64
	2) Invoice No. 82027340	O&M	\$	4,095.14
	3) Invoice No. 84102103	O&M		350.00
	4) Invoice No. 84109109	O&M	\$ \$	350.00
	5) Invoice No. 84109573	O&M	\$	350.00
i)	PMA Consultants			
-	Invoice No. 3559.01-40	NI-EA	\$	19,893.13

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

ADOPTED: Yeas - 3 Nays - 0

13. Other Business.

None.

14. Adjourn.

Motion by Vaara, supported by Miller, to adjourn the November 13, 2023, meeting at 2:49 p.m.

ADOPTED: Yeas - 3 Nays - 0

Next Regular Meeting: Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan and electronically at 11:30 a.m., Eastern Standard Time on December 20, 2023.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage District, at a meeting held on November 13, 2023 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, as amended, and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 13th day of November 2023.

Anne Vaara, Acting Secretary

Oakland-Macomb Interceptor Drain Drainage Board

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 4

Public Comment

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 5

Meadowbrook Insurance Contract Extension







TO: Michael Gregg, Chairperson

Oakland-Macomb Interceptor Drain Drainage Board

FROM: Evans Bantios, P.E., Oakland County Water Resources Commissioner's Office

Stephen Downing, Macomb County Public Works Commissioner's Office

SUBJECT: Contact Extension for Meadowbrook Insurance Agency for OCIP for Northeast

Sewage Pump Station and North Interceptor East Arm Projects

DATE: December 20, 2023

To prevent our Owner Controlled Insurance Program (OCIP) coverage from expiring on January 1, 2024, we need to extend coverage for the projects associated with the improvements on the Northeast Sewage Pump Station and North Interceptor East Arm projects to July 1, 2025. There will be an increase of \$336,055.38 in insurance premiums for this additional time. A breakdown of the insurance premiums is shown on the Meadowbrook Insurance Agency's December 14, 2023 letter.

RECOMMENDED ACTION: Extend the OCIP coverage from January 1, 2024 to July 1, 2025 with an increased cost of \$336,055.38.



December 14, 2023

Oakland-Macomb Interceptor Drain Drainage District 1 Public Works Drive, BLDG 95 West Waterford, MI 48328

RE: NESPS/NI-EA OCIP Insurance Extension

Dear Mr. Downing & Mr. Bantios,

Please find summary below for the Liability, Builders Risk, Pollution, and OPPI insurance extension on the owner-controlled insurance program (OCIP) for Northeast Sewage Pump Station and North Interceptor - East Arm Contract 2A & 2B projects. The summary below includes adding the additional months of coverage to the current program adjusting the policy expiration from 01/01/2024 to 07/01/2025. The total additional premiums for the policy extensions are outlined in the table below:

OMIDD NESPS NIEA (Contract 2A & 2B) Owner Controlled Insurance Program Policy Extension Premium Summary					
		Bound Policies			Extension
		42 N	Month Term	Add	ing 18 Months
Carrier	Policy				
Everest Indemnity Ins. Co.	\$2M/\$4M General Liability	\$	349,476.83	\$	48,197.55
Everest Indemnity Ins. Co.	5M X Primary GL	\$	214,327.50	\$	29,212.50
Capitol Specialty Ins. Corp.	10M x 5M	\$	166,199.65	\$	28,001.98
Starr Surplus Lines Ins. Co.	10M x 15M	\$	104,559.23	\$	19,475.00
Navigators Specialty Ins. Co.	\$12.5M P/O \$25M X \$25M	\$	105,575.00	\$	15,375.00
Great American Ins. Co.	\$12.5M P/O \$25M X \$25M	\$	100,000.00	\$	15,375.00
Chubb	Builders Risk	\$	396,513.00	\$	144,693.00
AIG	Pollution	\$	85 <i>,</i> 550.60	\$	24,440.10
Berkley	OPPI	\$	102,500.00	\$	11,285.25
	Total	\$	1,624,701.81	\$	336,055.38

Invoices are due upon receipt from our office and additional premium is made payable to Meadowbrook Insurance Agency.

Please let me know if you have any questions.

Thank you,

Patrick Kennedy
Account Executive

Meadowbrook Insurance Agency

Patrick Kennedy

CC: Salvatore Saputo

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 6



NTH Project No.: 61-210495-03

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Memo Type: Maintenance Protocols - Northeast Sewage Pumping Station (NESPS)

"Wet Well Bar Screen Maintenance Procedure"

To: Drain Commission for the Oakland Macomb Interceptor Drain Drainage District

From: Lawrence T. Gilbert P.E. and Abdulnasser Almadhoun, P.E.

Date: November 3, 2023

Re: Options for Mechanical Cleaning of Wet Well Bar Screens

Background:

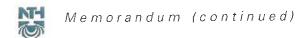
The NESPS Wet Well facility includes a fabricated steel partition screen intended to trap heavy debris in advance of the main Sewage Pump intakes thereby preventing potential damage to the pump mechanisms. The screens are comprised of heavy flat bar stock (½" thick by 4" wide) fabricated into individual, removable, segmental panels, each approx. 5.2' wide by 10.5' high with a 4" clear space between each of the vertical screen bars. The panels are stacked in a 3 high by 5 wide configuration at each side of the divided Wet Well (typically referred to as the south or "Lakeshore Interceptor" side, and the north or "Corridor Interceptor" side). When in place, the bar screens provide an approx. 25.9' x 31.7' screened surface per side that is inclined 10 degrees opposing the direction of incoming flow. A structural steel frame provides the supporting system for the individual screens and transfers the forces from the incoming wastewater flow to the wet well center dividing wall and to the adjacent side (caisson) walls.

When originally constructed in 1970, the wet well was equipped with a mechanized bar screen cleaning apparatus that could systematically provide a top to bottom "raking action" that would convey (by an upward dragging motion) debris trapped on the screen to the top of the screens at the wet well mezzanine operating level where personnel could operate the equipment. At the end of each vertical cycle, captured debris would be deposited into a small rail mounted trolley car "muck box". The muck box was designed to travel laterally on the mezzanine deck to a position where the 4 ton overhead gantry crane could raise the box to the ground surface whereupon arrangements for transfer offsite

and disposal functions could then occur. While seemingly simple in concept and not dissimilar from currently advertised wastewater screen maintenance systems, the original screening equipment was found to be unsatisfactory by the facility operators citing reasons of ineffectiveness and high maintenance requirements. Ultimately, the apparatus was removed and abandoned with no replacement procedures provided. Screen maintenance by DWSD and later GLWA staff then proceeded to remove accumulated debris on "an as-needed basis", with occasional fire hose jetting combined with the manned removal of heavier accumulated debris that could not pass the screen openings.

Developments during recent years in the paper and textile industries have resulted in a proliferation of durable products marketed as "disposable" but demonstrating very high durability in terms of tear resistance and simple toughness. These materials, while degradable to a limited extent, have proven to be resistant to conventional waste management techniques and have become a significant source of wastewater system fouling, including massive accumulations on bar screens, such as those at the NESPS. With the intertwining of the tough fabric-like material around the bar screen vertical bars, effective cleaning became difficult and challenging for cleaning crews. The task has required personnel to physically remove the debris accumulation literally in a "piece by piece" manner while working off fully extended 40' extension ladders. Ultimately, the collected debris was transported up (100 vertical feet) to ground surface level and then transported to a licensed landfill for disposal.

Active regulatory campaigns aimed at promoting a reduction in the use of flushable products has seemingly demonstrated an observable decline of these products in the wastewater streams, however, only to a limited degree as the flushable materials remain present in significant quantities. The current methodology employed at the NESPS for bar screen cleaning continues to require subcontractor maintenance personnel to physically enter the wet well under Flow Management restrictions (i.e. the Pump Station is taken out of service with LoTo protocols in place) and optionally steel plate bulkheads may be installed to isolate the area of the wet well where personnel will operate. Common extension ladders are installed, and the maintenance crew endeavors to clean the screens, top to bottom, essentially working in a "cherry picker" routine while carrying a 5 gal. pail to collect the debris. The debris makeup consists of normal sewage materials as well as sanitary products, medical



"sharps", and other hygienically undesirable detritus that places work crews in direct contact during removals.

Additionally, current procedures requiring the use of long extension ladders, limited surface access, and the moving proximities of the cleaning operation make emergency rescue operations of a disabled crew member extremely difficult without specially trained CSE rescue personnel on hand, regardless of normal PPE fall protection harness tie-off procedures typically being in place. The current cleaning procedure may be considered an interim measure to maintain flow capacity to the main pumps.

Due primarily to the perseverance of the current cleaning Contractor's workforce (Doetsch Environmental Services) and the support of the METCO Flow Management Team, this procedure has succeeded in maintaining the bar screens in serviceable condition, and within reasonable maintenance budget impacts to date. However, concerns over the extremely hazardous working environment afforded the cleaning crews, the continually increasing shortage of "willing" worker candidates, and the upcoming changes in facility operating protocols with new pumping equipment leads to a conclusion that improved long term procedures with greater efficiency are necessary.

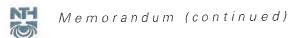
Criteria Considerations for Equipment Selection

In outlining the desirable (in some cases considered necessary) features of improved bar screen cleaning methods, a number of factors are relevant:

- Cleaning operations should preclude the necessity of any personnel physically entering the
 permit required Confined Space wet well intake area and/or suction well except under extreme
 conditions and with Flow Management Protocols and full LoTo in place.
- Cleaning operations should not typically require Flow Management restrictions, thereby allowing screen cleaning to take place during normal pumping operations. Cleaning operations should in practice be supported by normal pumping operations.
- The interval between cleaning operations should be determined by the Facility Operations
 Team, with a reduced frequency between the cleaning cycles considered desirable.

- Installation and removal of the fabricated steel stop log isolation plates should not be required, including preparatory work such as guide channel and threshold pre-cleaning, and subsequent perimeter leak sealing. (Note: These tasks involve additional worker safety exposures that also can be eliminated in addition to significant time and cost reductions).
- All debris removals (with the exception of unusually large debris) should not be retained for separate disposal but rather safely re-introduced into the pumped wastewater stream where it will eventually be recovered at the GLWA Water Resource Recovery Facility (Wastewater Treatment Plant) in Detroit.
- All proposed modifications to the bar screen cleaning task should also be evaluated (in part) to the short and long term economic considerations that result from initial capital investments in addition to routine operating costs.
- Improved cleaning methodologies must not be damaging to and/or increase abrasive wear,
 damage, or deterioration to the existing bar screens.
- New cleaning equipment installations should not interfere or conflict with existing and/or
 proposed Wet Well features such as safety perimeter handrail, flow level instrumentation
 devices, personnel elevator access or operation, electrical, lighting and gas alarm conduit and
 fixtures, and the bar screen structure itself.
- The cleaning equipment/methodology should also work to remove or reduce sediment in the intake side of the wet well where bar screen debris collections tend to promote grit and sediment buildup.
- The technology and operational characteristics of the cleaning equipment must be robust,
 simple, and capable of being operated by normal maintenance personnel.
- The equipment must be inherently safe in function for personnel to operate, free from "pinch
 points", unstable or top-heavy designs, or other cumbersome mechanisms. The equipment
 must also be designed for ease of installation using the existing 4 ton gantry crane located at
 ground level, and when necessary, removal for use or storage elsewhere should be convenient.
- The equipment must be designed for regular operation in sanitary wastewater operations, be
 fully submersible without damage, and be easily cleaned with routine wash-down procedures.

 As the potential for occasional large -sized debris to be captured on the bar screens is a realistic
 concern, the cleaning mechanisms should be able to address such obstructions without



jamming or damage to the equipment. Typically, however, over-sized debris will have to be removed manually by work-crews.

- Crew-size requirements for regular operation should emphasize minimal sized crews (including top support) with non-technical skill backgrounds.
- Repair and maintenance/ replacement parts should be readily available in inventory at the manufacturers (or representatives) facility, as well as provisions for field service support capability if required.
- The proposed goal for cleaning effectiveness should, at a minimum, equate to a min. 98% debris removal (estimated) following the initial single "pass" of the cleaning equipment.
 Although intended primarily for use at the NESPS, the adaptability of the equipment (and/or accessory equipment) for use at other facilities would be considered a desirable additional feature.
- Power supply for the equipment may be electric, pneumatic, or water/hydraulic. However,
 electric power is decidedly less favorable due to the inherent wet well conditions.
- Currently, the NESPS wet well does not have capabilities for permanent auxiliary heating, although this option remains under consideration. Ideally, the bar screen cleaning equipment (and crew) should operate under existing ambient temperatures as well as for storage during extended interim idle periods.
- While not a primary concern, the simultaneous removal of accumulated grease buildup (known
 in the Wastewater Industry as "FOG", an acronym for "fats, oils, and grease") is also
 considered advantageous. This stubborn buildup acts to attract debris and over time also
 reduces the flow-through capacity of the bar screens.

Literature Search for Products

A desktop review of the available equipment in the wastewater marketplace was conducted to determine availabilities that may adequately address most, if not all, of the previously listed criteria. In general, there exists a significant number of manufacturers who specialize in the water and wastewater equipment industry, and in particular equipment for the "headworks" (i.e., dealing with flow before it enters the pumping or preliminary treatment phases of a treatment handling facility).



Discussions with manufacturer's representatives clearly pointed to their objective of providing screening, removal, containment, and disposal of the debris collected by screening equipment rather than physically degrading and reducing it to a "dimensionally pumpable" condition. While these are normally desirable functions, the intent of the NESPS screening concept is to pulverize the debris to a condition where recovery will appropriately occur at the further downstream GLWA treatment facility where these processes are already in place.

The manufacturers whose product lines were reviewed included Franklin-Miller, Headworks Inc. (whose equipment is currently in use at the WRC George W. Kuhn CSO Facility), Lakeside Equipment Corp., NLB Corp, Bio-Lynceus, and several other firms. Numerous additional firms were examined but were found to only offer lagoon-cleaning apparatus and were deleted from further consideration. Investigated also (albeit briefly) were manufacturers such as Vaughan who offer a high quality, efficient line of "chopper pumps". However, with respect to their gross inability to handle the necessary large flow capacity and head requirements, and more importantly that the NESPS facility already will possess new pumping equipment, they were also eliminated from consideration early.

The majority of the equipment reviewed exhibited a high degree of sophisticated manufacturing and controls technology and generally represented the state of the art for wastewater and industrial treatment plant installations. However, without exception, the design intention of the equipment is to clean the bar screens, collect the detritus out of the wastewater stream, and convey it in some manner to other internal disposal processes. None of the equipment offerings investigated provided a means to simply and efficiently clean the bar screens and allow the waste material to be transported in the wastewater stream. The sole exception noted to date is the high pressure water jet technology from NLB Corporation which features cutting action water jets to clear the screens of accumulated debris (including paper textiles) and encourage the transport of removals into the pumped wastewater stream.



Findings

Accordingly, additional investigation was directed toward the NLB innovation, including an evaluation of cost parameters. In concept, the NLB waterjet apparatus involves the use of a custom designed and manufactured jetting head with manifold orifices that convey a series of strategically directed high pressure (10,000 psi) water jets that work to both dislodge accumulated debris on the bar screens and also shred and pulverize it. This aggressive action allows the material to be carried safely into the suction well where it can be transported downstream under normal pumping conditions. It is suggested that to maximize efficiency, one (or more) of the main NESPS sewage pumps should be in operation during screen cleaning to assist in the transport of the debris to the downstream interceptor. Note that during the cleaning operation, the use of steel stop plates ("stop logs") is not required and Flow Control Management (i.e. pumping shutdown) of the NESPS is not affected. The operation of the equipment presumably would require a typical three man crew with one pump operator monitoring the portable high pressure pump at ground level while a two man team works to monitor the effectiveness of the cleaning operation in the wet well. At no time are personnel required to work within the lower extremities of the wet well intake screen or suction well areas, and neither are they exposed to direct contact with the wastewater or debris accumulations. As cleaning operations continue, accumulations of heavy or particularly "stubborn" materials can receive a repeated cleaning cycle if necessary to provide a complete removal of debris.

The NLB equipment arrangement proposes the use of a custom cutting head which represents a capital expenditure by the project Owner, due to its design being uniquely fitted to the NESPS screen pattern with its typical 4" wide bar spacing (note that this spacing is also common to other bar screens in many wastewater installations). The high pressure water jet is provided by diesel powered portable pumping equipment expressly designed to produce the adjustable 10,000 psi pressure at the jet orifices considered as necessary to effectively "shred" virtually all materials that may accumulate. Unusual debris such as large timbers or vehicle tires may be the exception. The high pressure pump is acknowledged to be a specialized apparatus requiring a significant capital investment to acquire. Accordingly, due to the capital cost of acquisition and infrequent utilization,



outright purchase of this equipment is not recommended. The equipment is, however, available locally (Wixom, MI) on an as-needed, short term rental basis and being trailer mounted, can be easily towed to the jobsite by light vehicles.

Operation of the equipment is relatively straightforward, and following initial training, typical facility or subcontractor maintenance personnel should be capable of mobilizing and operating the equipment in a safe, efficient manner [Note: It is suggested that the subcontractor who is performing the current manual cleaning operation be considered for the jet cleaning, if adopted. The current cleaning subcontractor (Doetsch Environmental) is an experienced long time owner and user of NLB equipment and possesses familiarity with its operation].

While there are other manufacturers of high pressure water jetting equipment, NLB retains the advantages of being a locally based, well established entity with quality engineering, manufacturing, field service, and extensive parts inventories readily available at their Wixom, Michigan headquarters. In addition, their prior experience with high pressure water jet cleaning in associated industries offers distinct advantages with design innovation, and their established reputation for robust, dependable equipment is well recognized in the municipal field.

For purposes of further evaluation of the relevant economic considerations of this procedure, a preliminary cost opinion breakdown is attached as supplementary information.

Conclusion

Upon completion of final evaluations, it is recommended that the Proposal for the Wet Well Bar Screen Cleaning Concept "Proof of Principle" as prepared by NLB Corporation be approved for use at the Wet Well Bar Screen installation at the Northeast Sewage Pumping Station on a demonstration basis. In addition, it is suggested a budgetary allowance be provided for support assistance during the actual field demonstration in the NESPS Wet Well.



NLB Corp., as evidence of their confidence in the successful performance of the Water Jet Cleaning concept, has provided a quotation for an initial on-site demonstration of the prototype equipment in the NESPS Wet Well. The demonstration will require additional support by an outside Contractor (such as Doetsch Environmental) to assist with the logistics of equipment handling, water and air systems supply, and general support assistance. A summary of this proposed test procedure is attached for review.

Attachments:

- Photographs
- Product Literature
- Preliminary Budget Analysis

* * * * * * * *

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 7

Engineering Work Orders







TO: Michael Gregg, Chairperson

Oakland-Macomb Interceptor Drain Drainage Board

FROM: Evagelos Bantios, P.E., Oakland County Water Resources Commissioner

Stephen Downing, Macomb County Public Works Commissioner's Office

SUBJECT: Contact Extension for METCO for Operation, Maintenance, and Management of

Northeast Sewage Pumping Station and OMID System

DATE: December 20, 2023

METCO is currently performing operational, maintenance, and management of the Northeast Sewage Pump Station (NESPS) and Oakland-Macomb Interceptor Drain (OMID) System in accordance with Contract #5517. The main objective of the contract is to ensure an adequate level of preventative and corrective maintenance is performed on all pumps, control structures and associated systems such that sufficient pumping capacity is available during the dry weather and wet weather conditions and that the control structures are available to provide in-system storage for the various project occurring on the OMID and NIEA systems. Since the execution of the above-referenced contract, multiple critical pumping system equipment, including main transformers, switchgear, pump motors, synchronizing module and the pumps have failed frequently resulting in adverse impact to the available pumping capacity of the facility. In addition to all the other services METCO provides daily, they are currently working on replacing the variable frequency drive (VFD) on Pump No. 4. The attached engineering work order (EWO) extends METCO's services for an additional two years.

METCO will continue to provide operation, maintenance, and management of the Northeast Sewage Pumping Station and OMID system. The specific services are outlined in the attached EWO and METCO proposal dated October 23, 2023. The proposed fees for the services over the next two years are as follows:

Year 2024 \$929,278.12 Year 2025 \$750,165.84 Total: \$1,679,443.96

RECOMMENDED ACTION: Approve the attached Engineering Work Order to extend METCO's existing contract #5517 for an additional two years for a not to exceed amount of \$1,679,443.96. These funds have already been accounted for in the OMID maintenance budget.

To:

Jim Nash Oakland County Water Resources Commissioner Oakland-Macomb Interceptor Drain Drainage District Northeast Sewage Pumping Station Pump & Electrical Upgrades

Date: 11/15/2023

Engineering Work Order No. D-465 (2)

METCO Services, Inc.

For: Additional Professional Services for Operation, Maintenance, and Management of Northeast

Sewage Pumping Station and OMID System

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the operation, maintenance, and management of the Northeast Sewage Pumping Station (NESPS) and Oakland Macomb Interceptor Drain (OMID) System that falls under the sections of Contract #5517. This EWO serves as your approval for compensation of the following additional services, as delineated in METCO Services, Inc. (METCO) proposal date October 26, 2023, which includes the following scope:

3.0 OPERATIONAL PLAN MAINTENACE AND FLOW CONTROL

3.1 MAINTENANCE OF EXISTING PUMPING SYSTEM AND ASSOCIATED AUXILLIARY SYSTEM ASSETS

- Coordinate with GLWA operational staff on the status of the pumping capacity requirement.
- Engage the services of appropriate technical personnel/contractors of OMIDD to investigate the cause of failure.
- Mobilize the appropriate on-call technical resources to initiate remedial action.
- Monitor the progress of the repair work and initiate interim measures such as flow control measures to maintain the OMIDD system level.
- Supplement GLWA operations with OMIDD pump as required.
- Continuous monitoring of system operational capability during the outage of the pumping unit(s). This might last for few days to few weeks depending upon the severity of the fault causing the failure and the extent of repair required to address the defect.
- Confirm the functionality of the pump system after the necessary repair work is complete.
- Maintain and generate necessary work order from the Asset Management System.
- Prepare and submit to OMIDD, incident status report and a final report upon successful redeployment to full operation of the failed asset.

3.2 MAINTENANCE - CONSTRUCTION COORDINATION

 Meetings as required with CM/OMIDD to discuss and finalize the system outage requirement and the schedule for removal/demolition of existing pumping system equipment.

JIM NASH OAKLAND COUNTY WATER RESOURCES COMMISSIONER

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- Prepare and submit report summarizing the Coordinate and notify GLWA System Operation on the outage requirements and potential impacts to pump station operation.
- Monitor the system condition and initiate flow control measures as required during the removal/demolition of existing system.
- Restore the system to normal mode of operation after the demolition activities are complete.
- Prepare and submit status report to OMIDD at the end of the process.
- Monitor the installation of new pumping equipment for any potential impacts or interruption to the existing operation.
- Coordinate with GLWA System Operation during the tie in of new system.
- Provide coordination between OMIDD/CM/GLWA during the startup and commissioning of the new system/equipment.
- Prepare and submit report on the commissioning status.
- Coordinate with CM for the regular/ preventive maintenance schedule recommended by manufacturer of new system/equipment.

3.3 FLOW CONTROL MANAGEMENT AND LOCK-OUT, TAG-OUT OF OMID CONTROL STRUCTURES FOR ONGOING AND FUTURE OMID PROJECTS

- Review the dry weather and wet weather flow information and identify the flow control requirements for OMID system.
- Coordinate with OMID in executing the applicable flow control measures and operation schedule.
- Monitor, collect and document level and flow data and report daily to OMID and the Contractor.
- Field coordination with Contractor.
- Validation of System Isolation and Lock Out/Tag Out prior to Contractor entry and exit of the work area(s).
- Monitoring of Contractor activities.
- Coordinate for system restoration.
- Confirmation of system to "Normal Controls" & documentation.
- Coordination of maintenance activities with maintenance contractors and OMID Staff.
- Visual inspection of all Control Structures on weekly basis; report any issues.
- Submit monthly report to OMID Board and Staff of major maintenance activities on OMID Control Structures and NIEA Structures.
- Update NEXTGEN with all these Assets and generate work maintenance orders from the System.
- Provide professional services as required.

4.0 MAINTENANCE OF ASSET MANAGEMENT (2024 and 2025)

- Update the NEXGEN Asset Management System to add assets by inputting all required information into the system to generate preventive and corrective maintenance schedule.
- review of the contractor's submittals for maintenance requirements for adequacy of critical spare parts, maintenance procedure details, etc.

- Administrative maintenance of the NEXGEN database with the new maintenance initiatives including building the asset inventory and asset plan for the construction projects at Control Structure No. 9 (CS-9) and NESPS.
- Implementing as-needed preventive maintenance tasks to be tracked and managed in NEXGEN, and configuring inspection forms for daily/weekly walk-throughs, safety checks, or inspections.
- Building upon the Warehouse Module within the NEXGEN software to allow for organization, management, and tracking of any spare parts for OMIDDD assets.
- Design and implement enhancements to the projects module that will allow for better organization of record documents and reference files. The enhancements will involve configuration of the Projects Module.
- Configuring the custom Performance Reports out of the NEXGEN database, which would be streamlined and scheduled to be generated on a continuing basis. Some examples of these types of reports include annual reports for maintenance of assets for Great Lakes Water Authority (GLWA), real-time status reports of current work orders, upcoming/schedule preventive maintenance tasks,
- Using the Asset Management (AM) Planning module within NEXGEN can assist
 OMIDDD in budgeting for and prioritizing asset replacement via future capital
 improvement projects and maintenance initiatives. METCO will coordinate with OMIDDD
 through a series of future workshops as required to tailor the NEXGEN database for the
 desired level of service.
- Input the pipe and manhole condition assessment data into the NEXGEN database to update the pipe and manhole asset condition metrics.

5.0 STAFFING AND KEY ROLES

• A METCO team comprising of four (4) experienced members will work in coordination with the Oakland and Macomb Counties and their Contractors and Agents.

6.0 LEVEL OF EFFORTS

The proposed fees for the above services over the next two years are as follows:

Year 2024 \$929,278.12 Year 2025 \$750,165.84 Total: \$1,679,443.96

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 \$1,679,443.96. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

Page 3 of 4

RECOMMENDED	DATE: 12/12/2023	ACCEPTED	DATE: 12/12/2023	
By: Jack	Puscas	By: 1.1372		
Jack Puscas Æ.I.T.		Raj Vijayendı	ran, P.E.	
Project Engineer		President		
OCWRC		METCO Serv	ices, Inc.	
APPROVED	DATE: 12/12/2023	APPROVED	DATE: 12/18/2023	
By: [vagelos i	Bantios	By: Steven Korth		
Evagelos Bantios, P.F.		Steve Korth		
Assistant Chief Engin		Special Projects Manager		
OCWRC		OCWRC		
Approved by the Drai	inage District Board on:			

Department No.:	6010101	Account No.:	SC730373
Fund No:	FND82912	Program No.:	PRG149130
Project No:	N/A	Project Activity:	N/A
Contract No:	CCN5517	Contract Exp:	12/31/2023







TO: Michael Gregg, Chairperson

Oakland-Macomb Interceptor Drain Drainage Board

FROM: Jen Cook, P.E. Oakland County Water Resources Commissioner's Office Stephen Downing, Macomb County Public Works Commissioner's Office

SUBJECT: Approval of Engineering Work Order #2 and Project Budget Increase for Jacobs Additional Design Services on the OMID Odor and Corrosion Control System Design Project

DATE: December 7, 2023

ON February 16, 2022, OMID approved a contract with Jacobs Consulting, Inc. to perform investigation and design services related to the OMID Odor and Corrosion Control Project. As the work progressed minor additional tasks related to construction ventilation coordination with a Macomb Interceptor Drain Drainage District project were requested. The additional scope of work also includes two corrections to errors in Jacobs' original fee proposal dated January 14, 2022 related to OMIDDD progress meetings and design coordination meetings. Jacobs prepared a request, dated November 29, 2023, that articulated these services as well as corresponding costs. These services and associated fees are summarized as follows:

Construction ventilation coordination with MID CS-12 Project team	\$10,707
OMIDDD Progress Meetings Correction	\$32,868
Monthly Design Coordination Meetings Correction	\$47,254
Total	\$90,829

The attached Engineering Work Order has been prepared for the above scope of services and corresponding costs. This increases the total allowed project amount under this contract to \$1,054,053. There is no impact to overall schedule. We are targeting bidding on this project for Spring 2024.

Requested Action: Approve the attached Jacobs Engineering Work Order to compensate for additional tasks and corrections to original fee proposal related to the OMID Odor and Corrosion Control System Project.

Jim Nash Oakland County Water Resources Commissioner Oakland-Macomb Interceptor Drain Drainage District For the OMID Odor and Corrosion Control System Design Project Sterling Heights Macomb County, Michigan

Date: 12/7/2023

Engineering Work Order No. 2

To: Jacobs Consultants Inc. Contract No. 9788

For: Additional Out-of-Scope Engineering Design Services

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the OMID Odor and Corrosion Control System Design Project that falls under sections of Contract No. 9788. This EWO serves as your approval for compensation of the following additional services as delineated in your attached November 29, 2023 proposal. In summary, additional work included the following tasks and associated fees:

Construction ventilation coordination with MID CS-12 Project team	\$10,707
OMIDDD Progress Meetings Correction	\$32,868
Monthly Design Coordination Meetings Correction	\$47,254
Total	\$90,829

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 \$90,829. This increases the total allowed project amount under this contract to \$1,054,053. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED DATE: 12/7/2023			ACCEPTED	DATE: 12/13/2023	
By: July			By: Sta- Shope-		
Jen Co	ook, P.E.		Shawn Thomps	son	
Civil 1	Engineer III		Vice President		
OCW.	RC		Jacobs Consult	ants, Inc.	
APPROVED DATE: 12/9/2023		DATE: 12/9/2023	APPROVED	DATE: 12/11/2023	
By: Stephen Downing Stephen Downing			By: Cva	gelos Bantios	
Stepho	en Downing	U	Evans Bantios, P.E.		
Construction and Maintenance Manager			Assistant Chief Engineer		
MCPV	WO		OCWRC		
Appro	ved by the Drai	nage District Board on:			

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER
Page 1 of 2

08/22/2022

Form DC–109 ENGINEERING WORK ORDER

Cost Center:	6010101	Account No.:	730639
Fund No:	FND82912	Program No.:	PRG149667
Project No:	PRJ 1-17059	Project Activity:	ENG_CONSULT
Contract No:	9788	Contract Exp:	2/15/2025

Jacobs

November 29, 2023

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) c/o:

Ms. Jen Cook, P.E.
Oakland County Water Resources Commissioner
One Public Works Drive, Building 95 West
Waterford, MI 48328-1907

Mr. Stephen Downing Macomb County Public Works Commissioner's Office 21777 Dunham Road Clinton Township, MI 48036-1005

Subject: Design for Odor and Corrosion Control Systems within the Oakland-Macomb Interceptor Drain Requested Additional Engineering Services for EWO No. 2

Dear Ms. Cook and Mr. Downing:

Based on our recent discussions and direction from both counties, Jacobs prepared a summary of additional engineering services for the subject project, including:

- Construction ventilation coordination with the MID CS-12 Project Team
- OMIDDD Progress meetings correction to original fee proposal
- Monthly design coordination meetings correction to original fee proposal

We have prepared the enclosed scope of work and associated fees for the requested work. A breakdown of the level of effort and fee for these additional services are also included.

Given the above, we respectfully request your consideration to amend our budget for this contract to include an additional **\$90,829.00** via EWO No. 2 for the additional effort required for this important project.

Please contact me at 586-453-8666 with any questions regarding our additional efforts.

Respectfully,

Jason A. Matteo, P.E.

Jasan G. Matta

Client Account Manager/Senior Project Manager

ATTACHMENTS

Attachment A: Scope of Work for Additional and Corrected Professional Services

Attachment B: Annotated Copy of Original Fee Proposal

Attachment C: Level of Effort and Fee Breakdown for Additional and Corrected Professional Services

ATTACHMENT A

Scope of Work for Additional and Corrected Professional Services

Oakland-Macomb Interceptor Drain Drainage District Design for the Odor and Corrosion Control Systems within the OMID

November 29, 2023

This scope of work document presents descriptions of additional requested professional services for tasks completed and future work. The additional scope of work also includes two corrections to errors in Jacobs' original fee proposal dated January 14, 2022 related to OMIDDD progress meetings and design coordination meetings. An annotated copy of the original fee proposal is attached. In addition, our level of effort and associated fee are attached.

Task 1. Construction Ventilation Coordination with MID CS-12 Project Team

The Macomb Interceptor Drain Drainage District (MIDDD) contracted with the FK Engineering (FKE) team to design and oversee construction of Control Structure No. 12 (CS-12). CS-12 is located on the Macomb Interceptor Drain (MID), just upstream of the confluence with the Oakland-Macomb Interceptor Drain (OMID). As part of Jacobs' investigation related to providing an odor/corrosion system at Control Structure No. 6 (CS-6), the CS-12 project team requested Jacobs' assistance in developing options for temporary ventilation during construction and possibly reusing portions of this temporary ventilation system in the final design of the odor system at CS-6. Below are the additional tasks completed by Jacobs.

Additional Tasks Completed:

- Coordination with ASI on ventilation options as part of site visit on 11/16/22
- Preparation and attendance on conference call with ASI/FKE on 12/6/22
- Evaluation of CS-12 construction ventilation options
- Reviewed MID specifications and determined air flow rates
- Conducted an internal meeting for CS-12 NFPA access ventilation requirements
- Preparation and attendance on conference call with OMIDDD on 12/14/22

Task 2. OMIDDD Progress Meetings Correction

During a recent review of the level-of-effort worksheet in Jacobs' original fee proposal for the project, we discovered that effort (hours) for OMIDDD progress meetings was inadvertently excluded. A total number of six (6) progress meetings was assumed. We anticipate that approximately eight (8) progress meetings will be required; however, we request consideration for approval of budget for only six (6) progress meetings as originally proposed. Refer to Attachment B for an annotated copy of the original fee proposal that excludes the necessary effort and fee to facilitate these OMIDDD progress meetings.

Task 3. Monthly Design Coordination Meetings Correction

During a recent review of the level-of-effort worksheet in Jacobs' original fee proposal for the project, we discovered that effort (hours) for monthly design coordination meetings was inadvertently excluded. A total number of six (6) progress meetings was originally assumed. We estimate that several additional monthly design coordination meetings were held given that the original design schedule was extended by approximately 1 year; however, we request consideration for approval of budget for only eight (8) monthly design coordination meetings. Refer to Attachment B for an annotated copy of the original fee proposal that excludes the necessary effort and fee to facilitate these design coordination meetings.

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											1						1	Jacobs I	Design Team		
	Project Mana	ager	Odor/Corros Control Techno Lead		Senior Technica Resource - Desig		Senior Technical Resource - QA/QC	Senior Technical Resource - HVAC		r Technical irce - Odor	Air Dispersion Modeling	Air Dispersion Modeling QA/QC	Noise Abatement	Site/Civil	Site/Civil	Architectural Lead	Landscape Archite	ct Structural	Structural / Architectural QA/C	Process Mechanical	Odor/Corrosion Proje Engineer
Task/Subtask Description	Jason Matte	eo	Bill Desing	g	Doug Busko		Allen Gelderloos	Neal Forester	Scott	t Cowden	Keith Kibbee	Monica Wright	Darryl Chartrand	Jeff Yakel	Nancy Maschke	Richard Siebers / Vincent Milewski	Jade Paul	Mohammad Shamsa	i Mark Chrzanowsk	i Dustin Maas	Steve Graziano
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Geotechnical Site Evaluation Appendix B Document Review Monthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites) Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Cost Estimate 30% Design Cost Estimate 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 30% Design Cost Estimate 30% Design Cost Estimate 30% Design Cost Estimate 30% Design Cost Estimate 30% Design Cost Istimate 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 30% Design Cost Estimate 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Drawings/Specifications 30% Design Substast Substast 30% Design Substast Substast 30% Design Substitutals List 30% Design Substitutals Substitutation Substitutation Substitutation Substitutation Substitutation Substitutation Substitutation Substituta	2	\$584 1,167 \$5584 \$5584 \$5584 \$5584 \$50 \$5 \$0 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	8 \$1 8 \$1 4 \$1 15 \$4 15 \$4	50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$1 \$2 \$2 \$3 \$3 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$22 \$3 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	199 199 199 199 199 199 199 199 199 199	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 4 \$676 \$0 50 \$0 \$0 \$0 \$0 \$0 \$16 \$2,704 \$3 \$5507 \$12 \$2,028 \$0 \$0 \$0 \$3 \$5507 8 \$1,352 \$0 \$0 \$4 \$676 8 \$1,352 \$50 \$50 \$85 \$14,363	\$0 2 \$406 \$0 50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 2 \$4112 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 4 \$852 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$16 \$2,687 \$2 \$336 \$31,343 \$2 \$336 \$336 \$4 \$572 \$336 \$4 \$672 \$336 \$4 \$672 \$336 \$4 \$672 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

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Task/Subtask Description	Maddy F	airley-Wax	John Siczl		Mike		lan Hami		Robert \		Darren Lecke / Paul Mitchell		Gnandt	Erin Maddox	Chris		Terry Duffney		ly Pepper	Hours	Costs	Expenses	Tom Card (Independent Reviewer)	FKE	TWG	ASI	SD	Budget
	Labor Hours	\$123.63 Labor Costs		49.69 .abor	Labor	\$137.97 Labor Costs	Labor	\$198.35 Labor	Labor	\$188.97 Labor Costs	\$173.44 Labor Labor Hours Costs	Labor	\$180.37 Labor Costs	\$91.50 Labor Labor Hours Costs		\$111.19 Labor Costs	\$100.96 Labor Labor Hours Costs	Labor	\$94.32 Labor	Labor	Labor	Expenses Costs		Summary Geotech	WATS	Hydraulic	Survey	Subtask Total
	Hours	COSIS	nours	LOSIS	Hours	COSIS	nouis	COSIS	nours	COSIS	Hours Costs	Hours	Costs	Hours Costs	nours	COSIS	Hours Costs	nouis	Costs	nours	COSIS	Costs		FNE	IWG	ASI		TOTAL
Task 1 - Additional Investigations/Modeling		4105		40		40		40		40	40		40	40		40	40		4077	2.5	44.040	40.000	1	1				45.040
Project Kick-off Meeting (One 4-hr meeting)	2	\$495		\$0		\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0		\$0 \$0	\$0		\$0 \$0	\$0 \$0	- 4	\$377	26 56	\$4,942	\$2,000			£4.404	£4.505		\$6,942
Task 1 Project Meetings (Three 2-hour meetings, content split between 3 sites)		\$247		\$0						\$0	\$0			\$0				6	\$566		\$14,142	\$3,000			\$1,484	\$1,696		\$20,322
Data Acquisition Plan/Field Sampling, with Biotrickling Filter Optimization	30	\$3,709	4 :	999		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0	4	\$377	84	\$15,198	\$3,500						\$18,698
Hydraulic Modeling		\$0		\$0		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	24	\$7,003					\$19,504		\$26,507
Hydraulic Modeling Technical Memorandum		\$0		\$0		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	24	\$7,003	40.000			445.000	\$5,300		\$12,303
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WATS Modeling Technical Memorandum		\$0	4 :	999		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	24	\$6,967				\$3,816			\$10,783
Computational Fluid Dynamics (CFD) Modeling		\$0 \$0		\$0		\$0		\$0 \$0		\$0	\$0		\$0 \$0	\$0		\$0	\$0		\$0 \$0	40	\$8,253							\$8,253
CFD Modeling Technical Memorandum		Ų.		\$0		\$0		7-		\$0	\$0			\$0		\$0	\$0		7.7	26	\$5,927	4500	40.000					\$5,927
Task 1 Summary Report	8	\$989		999		\$0		\$0		70	\$0		\$0	\$0		\$0	\$0	8	\$755 \$2,075	45	\$9,028	\$500	\$3,000 \$3,000		£24 200	626 500		\$12,528
Task 1 - Total	44	\$5,440	16 \$	3,995	0	\$0	U	\$0	0	\$0	0 \$0	U	\$0	0 \$0	0	\$0	0 \$0	22	\$2,075	377	\$86,665	\$11,000	\$3,000	\$0	\$21,200	\$26,500	\$0	\$148,365
Task 2 - Basis of Design		4		40		A=		Amos	-	4-						A-					405	_						40
Project Meetings (Two 4-hour meetings split between sites)	8	\$989		\$0	4	\$552	4	\$793		\$0	4 \$694		\$0	\$0		\$0	\$0		\$0	94	\$20,564							\$20,564
As-Built/Historical Document Review	8	\$989 \$0		\$0	4	\$552	4	\$793		\$0	\$0		\$0	\$0		\$0	\$0		\$0	42	\$6,854	4500					40.550	\$6,854
Initial Surveying				\$0		\$0		\$0 \$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	4	\$1,167	\$500					\$2,650	\$4,317
Preliminary Easement Review		\$0		\$0		\$0		ΨŪ		\$0	\$0		\$0	\$0		\$0	\$0		\$0	4	\$1,167						\$2,650	\$3,817
Basis of Design Evaluation	8	\$989	4 !	5999	8	\$1,104	8	\$1,587	2	\$378	8 \$1,388		\$0	\$0		\$0	\$0		\$0	114	\$23,008		\$2,400					\$25,408
Existing/Proposed Utility and Regulations Review		\$0		\$0		\$0	4	\$793	2	\$378	\$0		\$0	\$0		\$0	\$0		\$0	20	\$3,919							\$3,919
Standards/Code/Permit Reviews		\$0		\$0	4	\$552	4	\$793		\$0	\$0		\$0	4 \$366		\$0	\$0		\$0	34	\$5,920							\$5,920
Equipment/Drawings/Schematics List		\$0		\$0	2	\$276	2	\$397		\$0	2 \$347		\$0	\$0		\$0	\$0		\$0	14	\$2,555							\$2,555
Environmental/Community/Public/Private Impact Assessment		\$0		\$0		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	20	\$3,725							\$3,725
Basis of Design Workshop (One 4-hour meeting, split between sites)		\$0		\$0	4	\$552	4	\$793		\$0	4 \$694		\$0	\$0		\$0	\$0		\$0	46	\$9,907	\$500						\$10,407
Basis of Design Report - Preliminary		\$0		5999	4	\$552	4	\$793	4	\$756	8 \$1,388		\$0	\$0		\$0	\$0	20	\$1,886	102	\$18,856		\$3,200					\$22,056
Basis of Design Report - Final Task 2 - Total	24	\$0 \$2,967		3499 2,497	4 34	\$552 \$4,691	4 38	\$793 \$7,537	2 10	\$378 \$1,890	4 \$694 30 \$5,203		\$0 \$0	\$0 4 \$366	0	\$0 \$0	\$0 0 \$0	12 32	\$1,132 \$3,018	59 553	\$10,562 \$108,205	\$500 \$1,500	\$2,000 \$7,600	\$0	\$0	\$0	\$5,300	\$13,062 \$122,605
Subtask 3.1 - Design Site Survey		\$0		\$0		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	10	\$1,720						\$6,360	\$8,080
Title Reviews, Temporary/Permanent Easement Documentation		\$0		\$0		\$0		\$0		\$0	\$0		\$0	\$0		\$0	\$0		\$0	10	\$1,720						\$7,420	\$9,140
Geotechnical Site Evaluation		\$0		\$0		\$0								\$0		\$0	\$0 \$0		\$0 \$0	2	\$584			\$16,960				\$17,544
Appendix B Document Review						7.7	_	\$0		\$0	\$0		\$0	4-														\$9,005
		\$0	2 :	499	4	\$552	2	\$397		\$0 \$0	\$0 2 \$347		\$0	\$0		\$0				42	\$9,005							\$1,023
Monthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites)		\$0	2 :	\$0	4	\$552 \$0	2	\$397		\$0 \$0			\$0 \$0	\$0		\$0	\$0		\$0	4	\$9,005 \$1,023							
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites)	2	\$0 \$247	2	\$0 \$0	4	\$552 \$0 \$0	2	\$397 \$0 \$0		\$0 \$0 \$0	2 \$347 \$0 \$0		\$0 \$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0		\$0 \$0	4 15	\$9,005 \$1,023 \$3,986	445.000						\$3,986
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites)	2	\$0 \$247 \$0		\$0 \$0 \$0	4	\$552 \$0 \$0 \$0	2	\$397 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0		\$0 \$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0	\$0 \$0 \$0	40	\$0 \$0 \$0	4 15 4	\$9,005 \$1,023 \$3,986 \$1,023	\$15,000						\$16,023
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites)	2	\$0 \$247		\$0 \$0	8	\$552 \$0 \$0	2	\$397 \$0 \$0	4	\$0 \$0 \$0	2 \$347 \$0 \$0		\$0 \$0 \$0	\$0 \$0	40	\$0 \$0	\$0 \$0	40	\$0 \$0	4 15	\$9,005 \$1,023 \$3,986	\$15,000						
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites)	2	\$0 \$247 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$499 \$0	8 2	\$552 \$0 \$0 \$0 \$0 \$1,104 \$276	8 2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397	4	\$0 \$0 \$0 \$0 \$0 \$756	2 \$347 \$0 \$0 \$0 \$0 \$0 \$2 \$347		\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 24 \$2,196 2 \$183		\$0 \$0 \$0	\$0 \$0 \$0	40	\$0 \$0 \$0 \$0 \$3,773 \$0	4 15 4 296	\$9,005 \$1,023 \$3,986 \$1,023	\$15,000						\$16,023 \$38,040 \$5,151
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0	2	\$0 \$0 \$0 \$0 \$499	8	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828	8 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587	4	\$0 \$0 \$0 \$0 \$0 \$756 \$0	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388		\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 24 \$2,196 2 \$183 18 \$1,647		\$0 \$0 \$0 \$0 \$4,447	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		\$0 \$0 \$0 \$0 \$3,773	4 15 4 296	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	2	\$0 \$247 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$499 \$0	8 2	\$552 \$0 \$0 \$0 \$0 \$1,104 \$276	2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397	4	\$0 \$0 \$0 \$0 \$0 \$756	2 \$347 \$0 \$0 \$0 \$0 \$0 \$2 \$347	16	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 24 \$2,196 2 \$183		\$0 \$0 \$0 \$4,447 \$0	\$0 \$0 \$0 \$0 80 \$8,077 \$0		\$0 \$0 \$0 \$0 \$3,773 \$0	4 15 4 296	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151	\$15,000						\$16,023 \$38,040 \$5,151
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$499 \$0	8 2	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828	2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793	4	\$0 \$0 \$0 \$0 \$0 \$756 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$2 \$347 6 \$1,041	16	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 24 \$2,196 2 \$183 18 \$1,647		\$0 \$0 \$0 \$4,447 \$0 \$3,336	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		\$0 \$0 \$0 \$0 \$3,773 \$0 \$3,773	4 15 4 296 25 284	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$499 \$0	8 2 6	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0	2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0	4	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388 2 \$347 6 \$1,041 \$0	16	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$2,196 \$2,196 \$1,647 \$0		\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0	\$0 \$0 \$0 \$0 80 \$8,077 \$0 100 \$10,096 \$0		\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0	4 15 4 296 25 284 16	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$0 \$0	8 2 6	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276	2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$397	4	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388 2 \$347 6 \$1,041 \$0 4 \$694 2 \$347	16	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$24 \$2,196 \$2 \$183 \$18 \$1,647 \$0 \$0 \$2 \$183		\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0	\$0 \$0 \$0 \$0 \$80 \$8,077 \$0 \$100 \$10,096 \$0 \$0 \$0	40	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0	4 15 4 296 25 284 16 37 36	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$499 \$0 \$0 \$0 \$0 \$0	8 2 6 6	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552	2 4 4 2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$397 \$793	*	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$378	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388 2 \$347 6 \$1,041 \$0 4 \$694 2 \$347 4 \$694		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$2,224	\$0 \$0 \$0 \$0 \$80 \$8,077 \$0 \$10,096 \$0 \$0 \$0 \$0	40	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886	4 15 4 296 25 284 16 37 36	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$499 \$0 \$0 \$499 \$0 \$499 \$0	8 2 6 6 2 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0	2 4 4 2	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$397 \$793 \$0	*	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	16	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0 \$0 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$2,224	\$0 \$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0	40	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0	4 15 4 296 25 284 16 37 36 159	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$499 \$0 \$0 \$0 \$0 \$0	8 2 6 6	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552	2 4 4 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$397 \$793	*	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$378	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388 2 \$347 6 \$1,041 \$0 4 \$694 2 \$347 4 \$694		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$2,224	\$0 \$0 \$0 \$0 \$80 \$8,077 \$0 \$10,096 \$0 \$0 \$0 \$0	40	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886	4 15 4 296 25 284 16 37 36	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Cost Estimate 90% Design Control Narrative Technical Memorandum 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 :	\$0 \$0 \$0 \$3 \$499 \$0 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	8 2 6 6 2 4	\$5552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276	2 4 4 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$397 \$793 \$0 \$793 \$0 \$793 \$397	*	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30	\$0 \$0 \$0 \$3,4447 \$0 \$3,3336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$0 \$0 \$0 \$1,886	4 15 4 296 25 284 16 37 36 159 12 33	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543							\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Drawings/Specifications 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 :	\$0 \$0 \$0 \$3 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276	2 4 2 4 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$793 \$793 \$793 \$793 \$793 \$793 \$793	*	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 8 \$1,388 2 \$347 6 \$1,041 \$0 4 \$694 2 \$347 4 \$694 \$0 8 \$1,388 2 \$347 4 \$694 \$0 4 \$694 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$2,164 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$2,224	\$0 \$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,886	4 15 4 296 25 284 16 37 36 159 12	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880	\$15,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$16,880
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Trawings/Specifications 90% Design Drawings/Specifications 90% Design Control Narrative Technical Memorandum 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 100% Design Drawings/Specifications	2	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 :	\$0 \$0 \$0 \$0 \$499 \$0 \$499 \$0 \$0 \$499 \$0 \$499 \$0 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	8 2 6 6 2 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828	2 4 4 2 4 4 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	*	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 2 \$183 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$0 \$1,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	4 15 4 296 25 284 16 37 36 159 12 33 36	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880 \$1,443							\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$2,0745 \$2,164 \$5,600 \$8,543 \$16,880 \$1,443
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Control Narrative Technical Memorandum 90% Design Control Narrative Technical Memorandum 90% Design Tomirol Narrative Technical Memorandum 90% Design Tomirol Narrative Technical Memorandum 90% Design Tomirol Specifications 100% Design Drawings/Specifications 100% Design Submittals List		\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 :	\$0 \$0 \$0 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276	2 4 2 4 2 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	*	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$0 \$1,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165	\$1,000						\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165
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Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Control Narrative Technical Memorandum 60% Design Drawings/Specifications 90% Design Drawings/Specifications 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Control Narrative Technical Memorandum 90% Design Control Narrative Technical Memorandum 90% Design Cost Estimate 100% Design Cost Estimate 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Submittals List Permitting Applications Risk Registry	24	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$2 \$499 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4 6 2 4	\$552 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$552 \$0 \$552 \$0 \$552 \$0 \$0 \$2552 \$0 \$0 \$2552 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 4 4 2 4 2 4 4 2	\$397 \$0 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,886 \$0 \$0 \$1,509 \$0 \$1,509	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880 \$1,443 \$7,165 \$8,868 \$1,387	\$1,000 \$1,500	\$0	\$16,960	\$0	Şo	\$13,780	\$16,023 \$38,040 \$5,151 \$35,984 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$11,443 \$7,165 \$1,443 \$7,165 \$1,387
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Cost Estimate 90% Design Cost Estimate 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Cost Estimate 100% Design Drawings/Specifications 100% Design Sost Estimate	24	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$2 \$499 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4 6 2 4	\$552 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$552 \$0 \$552 \$0 \$552 \$0 \$0 \$2552 \$0 \$0 \$2552 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 4 4 2 4 2 4 4 2	\$397 \$0 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 110	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,886 \$0 \$0 \$1,509 \$0 \$1,509	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880 \$1,443 \$7,165 \$8,868 \$1,387	\$1,000 \$1,500	\$0	\$16,960	\$0	So	\$13,780	\$16,023 \$38,040 \$5,151 \$35,984 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$11,443 \$7,165 \$1,443 \$7,165 \$1,387
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Control Narrative Technical Memorandum 90% Design Control Narrative Technical Memorandum 90% Design Control Narrative Technical Memorandum 90% Design Cost Estimate 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Submittals List Permitting Applications Risk Registry Subtask 3.1 Subtotal Subtask 3.2 - Bidding	24	\$0 \$2247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$1 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4 6 2 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276 \$555 \$0 \$828 \$276 \$555 \$0 \$828 \$276 \$828 \$276 \$828 \$276 \$828 \$276 \$828 \$276 \$828 \$276 \$828 \$276 \$276 \$276 \$276 \$276 \$276 \$276 \$276	2 4 4 2 4 2 4 4 2	\$397 \$0 \$0 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$2,164 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 110	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$100 \$10,096 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 16 136	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,50 \$0 \$1,286 \$0 \$1,286 \$1,	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880 \$1,443 \$7,165 \$8,868 \$1,387 \$15,855	\$1,000 \$1,500 \$17,500	50	\$16,960	\$0	So	\$13,780	\$16,023 \$38,040 \$5,151 \$35,984 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165 \$10,368 \$1,387 \$235,745
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Control Narrative Technical Memorandum 90% Design Control Narrative Technical Memorandum 90% Design Townings/Specifications 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Submittals List Permitting Applications Risk Registry Subtask 3.1 Subtotal Subtask 3.2 - Bidding Pre-Bid Meeting (8 hrs split between sites)	24	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4 6 2 4 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276 \$552 \$0 \$552 \$0 \$552 \$0 \$552 \$0 \$552 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 4 2 4 4 2 4 4 4 4	\$397 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$2,164 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 110	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$2,224 \$0 \$0 \$2,224 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20 20 16 136	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$1,886 \$0 \$0 \$1,886 \$0 \$0 \$1,886 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$0 \$0 \$1,282 \$0 \$0 \$0 \$0 \$1,282 \$0 \$0 \$1,282 \$0 \$0 \$0 \$0 \$0 \$1,282 \$0 \$0 \$0 \$0 \$0 \$0 \$1,282 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5 1,253	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165 \$8,868 \$1,387 \$1,443 \$7,165 \$8,868 \$1,387 \$1,443 \$1,387 \$1,443 \$1,387 \$1,443	\$1,000 \$1,500 \$17,500	\$0	\$16,960	\$0	So	\$13,780	\$16,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,343 \$7,165 \$10,368 \$1,387 \$235,745
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Control Narrative Technical Memorandum 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Cost Estimate 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Submittals Ust Permitting Applications Risk Registry Subtask 3.1 Subtotal Subtask 3.2 - Bidding Pre-Bid Meeting (8 hrs split between sites) Addenda Preparation	24	\$0 \$247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$499 \$0 \$0 \$499 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	8 2 6 6 2 4 6 2 4 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276 \$552 \$0 \$552 \$0 \$6,622	2 4 2 4 4 2 4 4 4 4	\$397 \$0 \$0 \$0 \$0 \$0 \$1,587 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,886 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$0 \$0 \$0 \$0 2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 110	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20 20 16 136	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,886 \$0 \$0 \$1,509 \$0 \$1,2827	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5 1,253	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$15,880 \$1,443 \$7,165 \$8,868 \$1,387 \$187,505	\$1,000 \$1,500 \$17,500	\$0	\$16,960	\$0	So	\$13,780	\$16,023 \$38,040 \$5,151 \$35,984 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165 \$10,368 \$1,387 \$235,745
Community Comment Meetings (Three 2-hr meetings, time split between 3 sites) Monthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 30% Design Drawings/Specifications 30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 60% Design Drawings/Specifications 60% Design Cost Estimate 60% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 90% Design Drawings/Specifications 90% Design Cost Estimate 90% Design Cost Estimate 90% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites) 100% Design Drawings/Specifications 100% Design Drawings/Specifications 100% Design Cost Estimate 100% Design Submittals List Permitting Applications Risk Registry Subtask 3.1 Subtotal Subtask 3.2 - Bidding Pre-Bid Meeting (8 hrs split between sites) Addenda Preparation Bid Document Modifications	24	\$0 \$2247 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 !	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	8 2 6 6 2 4 6 2 4 4	\$552 \$0 \$0 \$0 \$1,104 \$276 \$828 \$0 \$828 \$276 \$552 \$0 \$828 \$276 \$552 \$0 \$828 \$276 \$552 \$0 \$6,622	2 4 2 4 4 2 4 4 4 4	\$397 \$0 \$0 \$0 \$0 \$0 \$1,587 \$397 \$793 \$0 \$0 \$793 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2	\$0 \$0 \$0 \$0 \$0 \$756 \$0 \$756 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$378 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2 \$347 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$24 \$2,196 2 \$183 18 \$1,647 \$0 \$0 \$0 \$2 \$183 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20 20 110	\$0 \$0 \$0 \$4,447 \$0 \$3,336 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$2,224 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20 20 16 136	\$0 \$0 \$0 \$3,773 \$0 \$3,773 \$0 \$0 \$0 \$1,886 \$0 \$0 \$0 \$1,886 \$0 \$0 \$1,286 \$0 \$1,286 \$0 \$1,286 \$0 \$1,286 \$0 \$1,286 \$0 \$1,286	4 15 4 296 25 284 16 37 36 159 12 33 36 115 8 44 60 5 1,253	\$9,005 \$1,023 \$3,986 \$1,023 \$38,040 \$5,151 \$35,894 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$11,443 \$7,165 \$8,868 \$1,387 \$187,505	\$1,000 \$1,500 \$17,500	50	\$16,960	\$0	So	\$13,780	\$16,023 \$38,040 \$5,151 \$35,984 \$2,886 \$6,136 \$8,543 \$20,745 \$2,164 \$5,600 \$8,543 \$1,443 \$7,165 \$10,368 \$1,387 \$235,745

Total effort and fee excludes sufficient effort for OMIDDD progress meetings and design coordination meetings for ST-S-3 site.

			Oder/C																Jacobs I	Design Team		
	Project I	Manager	Odor/Co Control Te Le		Senior Tech Resource - D		Senior Technical Resource - QA/QC	Senior Technic Resource - HV		or Technical ource - Odor	Air Dispersion Modeling	Air Dispersion Modeling QA/QC	Noise Abatemen	t Site	/Civil	Site/Civil	Architectural Lead	Landscape Archite	ect Structural	Structural / Architectural QA/QC	Process Mechanica	Odor/Corrosion Pr Engineer
Task/Subtask Description	Jason I	Matteo	Bill D	_	Doug Bus		Allen Gelderloos	Neal Foreste		ott Cowden	Keith Kibbee	Monica Wright	Darryl Chartrand		Yakel	Nancy Maschke	Richard Siebers / Vincent Milewski	Jade Paul	Mohammad Shamsa		Dustin Maas	Steve Graziar
	Labor Hours	\$291.81 Labor Costs	Labor Hours	\$308.37 Labor Costs	Labor	219.67 Labor Costs	\$234.1 Labor Labor Hours Costs	Labor La	bor Labor		\$142.00 Labor Labor Hours Costs	Labor Labor	r Labor Labo	or Labor	\$184.09 Labor Costs	\$168.98 Labor Labor Hours Costs		Labor Lab	or Labor Labor		\$167.93 Labor Labor Hours Costs	Labor La
k 4 - CS-6 Pump Station - Vapor-Phase System task 4.1 - Design	110412		110812	3020	110412			110413	11041	2 222	110413	110013	110013	110412		110415 30310	HUMID SOM		110813 50312	110413	Home Some	
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otechnical Site Evaluation	1	\$292		\$0	2	\$439	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
pendix B Document Review	2	\$584	4	\$1,233		\$0	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	4 \$676	2 \$406	2 \$41	.2 4 \$852	\$0	4 \$672	4 5
onthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites)		\$0		\$0		\$0	\$0	Ş	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
mmunity Comment Meeting (Three 2-hr meetings, time split between 3 sites)	2	\$584	2	\$617		\$439	2 \$468		0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
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% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	5	\$1,459	5	\$1,542	4	\$879	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	3 \$507	\$0	\$0	2 \$426	\$0	2 \$336	2 5
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% Design Drawings/Specifications	3	\$875		\$0		\$0	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	8 \$1,352	4 \$811	2 \$41	2 4 \$852	\$0	4 \$672	8 \$1
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0% Design Control Narrative Technical Memorandum	4	\$1,167		\$0		\$0	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	4 \$672	8 \$
0% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	4	\$1,167	4	\$1,233		\$0	\$0		0	\$0	\$0	\$0	\$0		\$0	3 \$507	\$0	\$0	2 \$426	\$0	2 \$336	2 \$
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e-Bid Meeting (8 hrs split between sites)	4	\$1,167		\$0		\$0	\$0	9	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
Idenda Preparation	4	\$1,167		\$0		\$0	\$0	\$		\$0	\$0	\$0	\$0	4	\$736	\$0	2 \$406	\$0		\$0	\$0	4 \$
d Document Modifications	4	\$1,167		\$0		\$0	\$0	,	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
d Review, Bid Tabulation, and Recommendation	4	\$1,167		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0 \$0		\$0	\$0 \$0	\$0	\$0 \$0		\$0 \$0	\$0 \$0	
re-Award Meeting with Low-Bid Contractor (8 hrs split between sites) ubtask 4.2 Subtotal	20	\$1,167 \$5,836	0	\$0 \$0		\$439 \$439	\$0 0 \$0		0 0	\$0 \$0	\$0 0 \$0	0 \$0	0 \$0	4	\$0 \$736	0 \$0	\$0 2 \$406	γo	, ,,	0 \$0	0 \$0	4 \$
ask 5 - CS-8 and ST-S-1 - Local Odor Control ibtask 5.1 - Design te Survey tle Reviews, Temporary/Permanent Easement Documentation		\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0		00	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$368 \$368	4 \$676 4 \$676	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	S S
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onthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites)		\$0		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0		Ş0	\$0	\$0	\$0	\$0	\$0	\$0	
ommunity Comment Meeting (Three 2-hr meetings, time split between 3 sites)	3	\$875	3	\$925	1	\$220	2 \$468	9	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
onthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites)		\$0		\$0		\$0	\$0	ç	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
0% Design Drawings/Specifications		\$0		\$0		\$0	\$0	\$	0	\$0	\$0	\$0	\$0	6	\$1,105	2 \$338	\$0	2 \$41	2 \$426	2 \$515	\$0	2 \$
0% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	3	\$875	3	\$925	1	\$220	\$0		0	\$0	\$0	\$0	\$0		\$0	2 \$338	\$0	\$0	2 \$426	\$0	\$0	2 \$
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0% Design Drawings/Specifications		\$0		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0	6	\$1,105	2 \$338	\$0	1 \$20		2 \$515	\$0	2 \$
0% Design Cost Estimate	1	\$0 \$292		\$0 \$0		\$0 \$0	\$0 \$0		0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0	2 \$
0% Design Control Narrative Technical Memorandum	1																7.				50	
0% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	4	\$1,167	4	\$1,233	1	\$220	\$0	\$	0	\$0	\$0	\$0	\$0		\$0	2 \$338	\$0	\$0	1 \$213	\$0	\$0	2 \$
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19% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)	2	\$584		\$0	1	\$220	\$0		0	\$0	\$0	\$0	\$0		\$0	2 \$338	\$0	\$0	\$0	\$0	\$0	
00% Design Drawings/Specifications	1	\$292		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0		\$0	2 \$338	\$0	\$0		\$0	\$0	1 5
00% Design Cost Estimate		\$0		\$0		\$0	\$0	7	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
00% Design Submittals List	_	\$0		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0		\$0	4 \$676	4 \$811			\$0	\$0	1 \$
ermitting Applications	2	\$584		\$0 \$0		\$0	4 \$937	7	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	6 \$1,014	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	
sk Registry btask 5.1 Subtotal	2	\$584	10	7.0		\$220 31,318	\$0		0 0	7.	7.7	7.	ŞÜ		70	\$0	7.	γo	, ,,	7.	γo	18 \$2
nrask 2.1 Sunrotgi	22	\$6,420	10	\$3,084	6 \$	1,318	6 \$1,405	0 \$	0 0	\$0	0 \$0	0 \$0	0 \$0	16	\$2,945	34 \$5,745	6 \$1,217	4 \$82	14 12 \$2,557	4 \$1,030	0 \$0	18 \$
btask 5.2 - Bidding																						
e-Bid Meeting (8 hrs split between sites)	4	\$1,167		\$0		\$0	\$0	9	0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	
ddenda Preparation	4	\$1,167		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0		\$368	\$0	1 \$203	\$0		\$0	\$0	2 \$
d Document Modifications	4	\$1,167		\$0		\$0	\$0		0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
d Review, Bid Tabulation, and Recommendation	4	\$1,167		\$0		\$0	\$0		0			\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
re-Award Meeting with Low-Bid Contractor (8 hrs split between sites)	4	\$1,167		\$0		\$439	\$0		0	1212/	11// \$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	
btask 5.2 Subtotal	20	\$5,836	0	\$0	2	\$439	0 \$0	0 \$	0 0	\$0	0 \$0	0 \$0	0 \$0	2	\$368	0 \$0	1 \$203	0 \$0	1 \$213	0 \$0	0 \$0	2
isk 1/2: Invest./Modeling and BOD	173	\$50,483	120	\$37,004		52,197	22 \$5,151		278 10		28 \$3,976	16 \$3,408	3 28 \$4,37		\$9,389	28 \$4,731	34 \$6,896				40 \$6,717	
ask 3.1, 4.1, 5.1: Design	100	\$29,181	80	\$24,669		55,712	22 \$5,151		0 0	\$0	0 \$0	0 \$0	0 \$0		\$8,100	200 \$33,796					112 \$18,808	
sks 3.2, 4.2, 5.2: Bidding	60	\$17,509	5	\$1,542	6 \$	31,318	0 \$0	0 \$	0 0	\$0	0 \$0	0 \$0	0 \$0	10	\$1,841	0 \$0	5 \$1,014	0 \$0	5 \$1,065	0 \$0	0 \$0	10 \$1
roject Total	333	\$97 172	205	\$63 215	42	9 226	44 \$10,30	3 6 ¢1	278 10	\$2,730	28 \$3,976	16 \$3,408	g 28 ¢4.27	74 105	\$19 220	228 \$38,527	93 \$18 063	3 58 \$11,9	952 107 \$ 22 707	28 \$7,212	152 \$25,525	5 284 62
OT-TO-EXCEED (NTE) PROJECT COST	333	yJ1,113	203	403,213	72 7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 \$10,50	. 5 31,	0 10	<i>42,13</i> 0	20 33,970	10 93,400	. 20 34,37	- 103	713,323	220 730,327	JJ 910,003	. 50 311,9	101 322,131	20 31,212	132 323,323	204 33

		rosion Project Igineer	Process M QA/		Building Me HVA		Elec	trical	Electrical QA	/QC	I&C Lead	Cost	t Estimating	Specif	ications	Senior Engir	neer Tech	CAD De	esigner	Admin S	iupport	Total Labor	Total Labor Costs	Jacobs	T C .	Subconsultant	t Fees (including	g 6% markup)		Total 1
Task/Subtask Description		Fairley-Wax \$123.63	John S	\$249.69		\$137.97	lan Ha	\$198.35		od .88.97	Darren Lecke / P Mitchell \$173	MII	ke Gnandt \$180.37	7	\$91.50	Chris [\$111.19	Terry D	\$100.96	Sandy P	\$94.32	Hours	Costs	Expenses	Tom Card (Independent Reviewer)	FKE Summary	TWG	ASI	SD	
	Labor Hours	Labor Costs	Labor Hours	Labor Costs	Labor Hours	Labor Costs	Labor Hours	Labor Costs		abor Costs	Labor Lab Hours Co		r Labor s Costs	Labor Hours	Labor Costs	Expenses Costs		Geotech FKE	WATS TWG	Hydraulic ASI	Survey SD	Sub To								
sk 4 - CS-6 Pump Station - Vapor-Phase System																														
ubtask 4.1 - Design																														
ite Survey		\$0		\$0		\$0		\$0		\$0	\$0)	\$0		\$0		\$0		\$0		\$0	10	\$1,720						\$6,360	\$8,0
itle Reviews, Temporary/Permanent Easement Documentation		\$0		\$0		\$0		\$0		\$0	\$()	\$0		\$0		\$0		\$0		\$0	10	\$1,720						\$7,420	\$9,3
eotechnical Site Evaluation		\$0		\$0		\$0		\$0		\$0	\$(\$0		\$0		\$0		\$0		\$0	3	\$731			\$16,960				\$17,
ppendix B Document Review		\$0	2	\$499		\$0	2	\$397		\$0	2 \$34		\$0		\$0		\$0		\$0		\$0	32	\$6,636							\$6,0
onthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites)	2	\$0 \$247		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	\$(\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	0 10	\$0 \$2,355							\$2,
Ionthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites)		\$0		\$0		\$0		\$0		\$0	Ś		\$0		\$0		\$0		\$0		\$0	0	\$0							\$2,
0% Design Drawings/Specifications		\$0	2	\$499		\$0	8	\$1,587	4	\$756	4 \$69	94	\$0	20	\$1,830	30	\$3,336	60	\$6,058	40	\$3,773	238	\$30,622							\$30,
)% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)		\$0		\$0		\$0	2	\$397		\$0	2 \$34	17	\$0	2	\$183		\$0		\$0		\$0	29	\$6,354							\$6,
			2											4.0		20	£2.226	100	¢40.00¢	40	62.772									
0% Design Drawings/Specifications 0% Design Cost Estimate		\$0 \$0	2	\$499		\$0 \$0	4	\$793 \$0	4	\$756 \$0	2 \$34 \$6		\$0 \$2,886	16	\$1,464 \$0	30	\$3,336	100	\$10,096	40	\$3,773 \$0	262 16	\$32,474 \$2,886							\$32, \$2,8
0% Design Control Narrative Technical Memorandum		\$0		\$0		\$0	4	\$793		\$0	4 \$69		\$2,000		\$0		\$0		\$0		\$0	25	\$4,125							\$4,
		\$0		\$0		\$0	2	\$397		\$0	2 \$34	17	\$0	2	\$183		\$0		\$0		\$0	27								\$5,
1% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)							2							2									\$5,915							
0% Design Drawings/Specifications		\$0	2	\$499		\$0	4	\$793	2	\$378	4 \$69		\$0		\$0	20	\$2,224	60	\$6,058	20	\$1,886	145	\$18,623							\$18
0% Design Cost Estimate 0% Design Control Narrative Technical Memorandum		\$0 \$0		\$0 \$0		\$0 \$0	1	\$0 \$793		\$0 \$0	4 \$69		\$2,164 \$0		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	12 24	\$2,164 \$4,442							\$2, \$4,
•		-					4														-									
00% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)		\$0		\$0		\$0	2	\$397		\$0	2 \$34	17	\$0	2	\$183		\$0		\$0		\$0	23	\$4,875							\$4,8
.00% Design Drawings/Specifications		\$0	2	\$499		\$0	4	\$793	2	\$378	4 \$69	94	\$0		\$0	20	\$2,224	30	\$3,029	20	\$1,886	113	\$15,010	\$1,000						\$16,
100% Design Cost Estimate		\$0		\$0		\$0		\$0		\$0	\$(\$1,443		\$0		\$0		\$0		\$0	9	\$1,735							\$1,7
LOO% Design Submittals List	24	\$0 \$2,967		\$0 \$0		\$0 \$0	4	\$793 \$0		\$0	4 \$69 \$6		\$0 \$0	8	\$732 \$0		\$0 \$0		\$0 \$0	16	\$0 \$1,509	39 56	\$6,492 \$7,932	Ć1 F00						\$6,4 \$9,4
Permitting Applications Risk Registry	24	\$2,967		\$0		\$0		\$0		\$0	Si Si		\$0		\$0		\$0		\$0	10	\$0	Δ	\$1,167	\$1,500						\$1,
ubtask 4.1 Subtotal	26	\$3,214	10	\$2,497	0	\$0	40	\$7,934	12 \$	2,268	34 \$5,8	97 36	\$6,493	50	\$4,575	100	\$11,119	250	\$25,241	136	\$12,827	1,087	\$157,978	\$2,500	\$0	\$16,960	\$0	\$0	\$13,780	\$191
ubtask 4.2 - Bidding																														
e-Bid Meeting (8 hrs split between sites)	3	\$371		\$0		\$0		\$0		\$0	\$(\$0	2	\$183		\$0		\$0	8	\$755	17	\$2,476	\$600						\$3
Idenda Preparation		\$0		\$0	2	\$276	2	\$397		\$0	2 \$3		\$0		\$0		\$0		\$0		\$0	22	\$4,313							\$4
id Document Modifications		\$0 \$0		\$0		\$0		\$0		\$0	\$1		\$0 \$0	4	\$366	4	\$445 \$0	4	\$404	4	\$377 \$0	20	\$2,759	\$600						\$3,
iid Review, Bid Tabulation, and Recommendation re-Award Meeting with Low-Bid Contractor (8 hrs split between sites)	2	\$371		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	\$1		\$0	4	\$366 \$0		\$0		\$0 \$0	8	\$755	8 17	\$1,533 \$2,732	\$600						\$1, \$3,
ask 5 - CS-8 and ST-S-1 - Local Odor Control																														
Subtask 5.1 - Design																								1						
ite Survey Title Reviews, Temporary/Permanent Easement Documentation		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	\$1		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	6	\$1,044 \$1,044						\$6,360 \$7,420	\$7, \$8,
eotechnical Site Evaluation		\$0		\$0		\$0		\$0		\$0	\$I		\$0		\$0		\$0		\$0		\$0	0	\$0			\$16,960			37,420	\$16
ppendix B Document Review		\$0	2	\$499	2	\$276	2	\$397		\$0	\$1)	\$0		\$0		\$0		\$0		\$0	14	\$2,621			, .,				\$2,
Monthly OMIDDD Progress Meetings (Six 2-hour meetings, time split between 3 sites)		\$0		\$0		\$0		\$0		\$0	\$1		\$0		\$0		\$0		\$0		\$0	0	\$0							\$
Community Comment Meeting (Three 2-hr meetings, time split between 3 sites)	2	\$247		\$0		\$0		\$0		\$0	\$1		\$0		\$0		\$0		\$0		\$0	11	\$2,736							\$2,
Nonthly Design Coordination Meetings (Six 2-hour meetings, time split between 3 sites) 0% Design Drawings/Specifications		\$0 \$0	2	\$0 \$499		\$0 \$0		\$0 \$0		\$0 \$0	\$I \$I	-	\$0 \$0	- 1	\$0 \$366	4	\$0 \$445	8	\$0 \$808	8	\$0 \$755	0 42	\$0 \$5,947							\$ \$5,9
			2													4				0										
30% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)		\$0		\$0		\$0		\$0		\$0	\$1)	\$0	2	\$183		\$0		\$0		\$0	15	\$3,246							\$3,
50% Design Drawings/Specifications		\$0	2	\$499	2	\$276	2	\$397		\$0	\$1		\$0	2	\$183	4	\$445	8	\$808	8	\$755	43	\$6,231							\$6,
0% Design Cost Estimate		\$0		\$0		\$0		\$0		\$0	\$1		\$721		\$0		\$0 \$0		\$0 \$0		\$0	4	\$721							\$7
60% Design Control Narrative Technical Memorandum		\$0		\$0	2	\$276	2	\$397		\$0	\$()	\$0		\$0		\$0		\$0		\$0	/	\$1,243							\$1,
0% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)		\$0		\$0		\$0		\$0		\$0	\$1)	\$0	2	\$183		\$0		\$0		\$0	16	\$3,633							\$3,
0% Design Drawings/Specifications		\$0	1	\$250		\$0		\$0	4	\$756	\$1		\$0		\$0	4	\$445	8	\$808	8	\$755	33	\$4,632							\$4
0% Design Cost Estimate		\$0		\$0		\$0		\$0		\$0	\$1		\$361		\$0		\$0		\$0		\$0	2	\$361							\$3
0% Design Control Narrative Technical Memorandum		\$0		\$0		\$0		\$0		\$0	\$1)	\$0		\$0		\$0		\$0		\$0	5	\$1,082							\$1,
0% Design Workshop/Meeting Minutes (One 8-hr workshop, time split between 3 sites)		\$0		\$0		\$0		\$0		\$0	\$1)	\$0	2	\$183		\$0		\$0		\$0	7	\$1,324							\$1,
00% Design Drawings/Specifications		\$0	1	\$250		\$0		\$0		\$0	\$1)	\$0		\$0	2	\$222	8	\$808	8	\$755	24	\$3,017	\$1,000						\$4,
00% Design Cost Estimate		\$0	_	\$0		\$0		\$0		\$0	\$1		\$361		\$0		\$0	-	\$0	-	\$0	2	\$361	7-,000						\$3
00% Design Submittals List		\$0		\$0		\$0		\$0		\$0	\$1)	\$0	2	\$183		\$0		\$0		\$0	12	\$2,023							\$2,
ermitting Applications	16	\$1,978		\$0		\$0		\$0		\$0	\$1	-	\$0		\$0		\$0		\$0	4	\$377	32	\$4,889	\$1,500						\$6,
isk Registry	40	\$0		\$0	_	\$0		\$0		\$0	\$1		\$0		\$0	- 11	\$0	22	\$0	26	\$0	3	\$803	63 500	**	£45.050	-	^	642 700	\$8
ubtask 5.1 Subtotal	18	\$2,225	8	\$1,998	6	\$828	6	\$1,190	4	\$756	0 \$1) 8	\$1,443	14	\$1,281	14	\$1,557	32	\$3,231	36	\$3,395	284	\$46,960	\$2,500	\$0	\$16,960	\$0	\$0	\$13,780	\$80
btask 5.2 - Bidding																														
e-Bid Meeting (8 hrs split between sites)	2	\$247		\$0		\$0		\$0		\$0	\$1		\$0	2	\$183		\$0		\$0	8	\$755	16	\$2,352	\$600						\$2
ddenda Preparation		\$0		\$0	1	\$138	1	\$198		\$0	\$1		\$0	-	\$0		\$0		\$0		\$0	12	\$2,567	400-						\$2,
d Document Modifications d Review, Bid Tabulation, and Recommendation		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	4 8 4		\$0	2	\$183 \$183	2	\$222 \$0	2	\$202 \$0	4	\$377 \$0	14	\$2,152 \$1,350	\$600						\$2, \$1,
re-Award Meeting with Low-Bid Contractor (8 hrs split between sites)	2	\$0		\$0 \$0		\$0		\$0		\$0	121	7 <i>2</i> 21/1	1// 50	2	\$183		\$0		\$0	8	\$755	16	\$1,350	\$600						\$1
btask 5.2 Subtotal	4	\$495	0	\$0	1	\$138	1	\$198	0	\$0	0 \$		\$0	6	\$549	2	\$222	2	\$202	20	\$1,886	64	\$11,029	\$1,800	\$0	\$0	\$0	\$0	\$0	\$12
							1					1																		
ask 1/2: Invest./Modeling and BOD ask 3.1, 4.1, 5.1: Design	68	\$8,407	26	\$6,492	34	\$4,691	38	\$7,537		1,890	30 \$5,2		\$0	4	\$366	0	\$0	0	\$0	54	\$5,093	930	\$194,870	\$12,500	\$10,600	\$0	\$21,200	\$26,500	\$5,300	\$270
15K 3.1. 4.1. 3.1. DESIRO	70	\$8,654	28	\$6,991	54	\$7,450	86	\$17,058 \$992	28 \$	5,291 \$0	80 \$13,				\$10,981		\$24,906	546	\$55,125	308	\$29,049	2,624	\$392,443	\$22,500	\$0	\$50,880	\$0	\$0	\$41,340 \$0	\$50° \$45
	16	S1 978	0	ŚO	5						4 \$69	94 0	SO	26	52.379	10	S1.112	10	\$1,010	60	55.659	237	540 147	S5.4nn	SO.	Sn	ŚO			
Tasks 3.2, 4.2, 5.2: Bidding	16	\$1,978	0	ŞU	5	\$690	5	\$99Z	U	ŞU	4 \$6	94 0	\$0	26	\$2,379	10	\$1,112	10	\$1,010	60	\$5,659	237	\$40,197	\$5,400	\$0	\$0	\$0	\$0	ŞU	

Total effort and fee excludes any effort for OMIDDD progress meetings and design coordination meetings for CS-6 site.

Total effort and fee excludes any effort for OMIDDD progress meetings and design coordination meetings for ST-S-1 site.

ATTACHMENT C: Level-of-Effort and Fee Breakdown for Additional and Corrected Professional Services

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)

Design for Odor and Corrosion Control Systems within the OMID

November 29, 2023

Task No.	Task Description	Project	Manager		Technical sultant	Desig	n Manager		Corrosion Engineer	Proje	ct Engineer	Discipl	ine Lead
		Jason	Matteo	Bill (Desing	And	y Schrank	Steve	Graziano	Gupta	a, Medhavi	Туј	oical
	Using Multiplier of 2.84 per Contract and 2023 Hourly Rates:		\$313.71		\$320.38		\$256.93		\$162.50		\$100.85		\$193.12
		Hours	Fees	Hours	Fees	Hours	Fees	Hours	Fees	Hours	Fees		Fees
Work Cor	npleted To-date												
1	Construction Ventilation Coordination with MID CS-12 Project Team												
	Coordinated with ASI on ventilation options during site visit 11/16/22		\$0	1	\$320		\$0	3		3	\$303		\$0
	Prepared for and attended conference call with ASI/FKE on 12/6/22	2	\$627	1	\$320	1	\$257	2	\$325	1	\$101		\$0
	Evaluated CS-12 construction ventilation options	2	\$627	3	\$961	3	\$771	3	\$488		\$0		\$0
	Reviewed MID specifications and determined air flow rates	1	\$314	3	\$961		\$0	3	\$488		\$0		\$0
	Conducted internal meeting for CS-12 NFPA access ventilation	1	\$314		\$0	1	\$257	1	\$163		\$0	2	\$386
	Prepared for and attended conference call with OMIDDD on 12/14/22	2	\$627	2	\$641	2	\$514	4	\$650		\$0		\$0
	Task 1 Total Effort	8	\$2,510	10	\$3,204	7	\$1,799	16	\$2,113	4	\$403	2	\$386
2	OMIDDD Progress Meetings Correction												
	OMIDDD Progress Meetings ([6] 2-hr meetings to date)	18	\$5,647	18	\$5,767	18	\$4,625	18	\$2,925		\$0	72	\$13,905
	Task 2 Total Effort	18	\$5,647	18	\$5,767	18	\$4,625	18	\$2,925	0	\$0	72	\$13,905
3	Monthly Design Coordination Meetings Correction												
	(6) 2-hr monthly meetings, plus additional (2) 2-hr monthly meetings	24	\$7,529	24	\$7,689	24	\$6,166	24	\$3,900		\$0	96	\$18,540
	Task 3 Total Effort	24	\$7,529	24	\$7,689	24	\$6,166	24	\$3,900	0	\$0	96	\$18,540
	TOTAL EFFORT AND FEE (Tasks 1 through 3)	50	\$15,685	52	\$16,660	49	\$12,590	58	\$8,938	4	\$403	170	\$32,830

ATTACHMENT C: Level-of-Effort and Fee Breakdown for Additional and Corrected

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)

Design for Odor and Corrosion Control Systems within the OMID

November 29, 2023

Task No.	Task Description	Ventilatio	on Modeler	_	Operation & lic Modeling		nistration, ting, Editing				
rusk ito.	rusk sesenpuon	Meliss	sa Berry		ASI	Sand	ly Pepper	Total Hours by	Total Labor By Task	Jacobs Expenses	Total by Task
	Using Multiplier of 2.84 per Contract and 2023 Hourly Rates:		\$146.17		\$180.00		\$107.18	Task			
		Hours	Fees	Hours	Fees	Hours	Fees				
Work Co	mpleted To-date										
1	Construction Ventilation Coordination with MID CS-12 Project Team										
	Coordinated with ASI on ventilation options during site visit 11/16/22		\$0		\$0		\$0	7	\$623	\$0	\$623
	Prepared for and attended conference call with ASI/FKE on 12/6/22		\$0		\$0		\$0	7	\$1,631	\$0	\$1,631
	Evaluated CS-12 construction ventilation options	2	\$292		\$0		\$0	13	\$3,139	\$0	\$3,139
	Reviewed MID specifications and determined air flow rates		\$0		\$0		\$0	7	\$1,762	\$0	\$1,762
	Conducted internal meeting for CS-12 NFPA access ventilation		\$0		\$0		\$0	3	\$1,119	\$0	\$1,119
	Prepared for and attended conference call with OMIDDD on 12/14/22		\$0		\$0		\$0	10	\$2,432	\$0	\$2,432
	Task 1 Total Effort	2	\$292	0	\$0	0	\$0	47	\$10,707	0	\$10,707
2	OMIDDD Progress Meetings Correction										
	OMIDDD Progress Meetings ([6] 2-hr meetings to date)		\$0		\$0		\$0	72	\$32,868	\$0	\$32,868
	Task 2 Total Effort	0	\$0	0	\$0	0	\$0	72	\$32,868	\$0	\$32,868
3	Monthly Design Coordination Meetings Correction										
	(6) 2-hr monthly meetings, plus additional (2) 2-hr monthly meetings		\$0		\$0	32	\$3,430	128	\$47,254	\$0	\$47,254
	Task 3 Total Effort	0	\$0	0	\$0	32	\$3,430	128	\$47,254	\$0	\$47,254
	TOTAL EFFORT AND FEE (Tasks 1 through 3)	2	\$292	0	\$0	32	\$3,430	247	\$90,829	\$0	\$90,829

Oakland-Macomb Interceptor Drain Drainage District

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 8

Change Order

CHANGE ORDER NO. THIRTY-NINE

Oakland Macomb Interceptor Drain, Drainage District (OMIDDD) For Construction of the Pump and Electrical Upgrades Project Northeast Sewage Pumping Station (NESPS)

Located in the City of Detroit, Wayne County, Michigan

CONSTRUCTION MANAGER, AT RISK (CMAR) Walsh Construction Co. II, LLC Authorization for: 1.) Wet Well Elevator Mechanical and Electrical Package; 2.) Generator Foundation slab partial removal; 3.) Drainage Structure Addition; 4.) Concrete Paving modifications at Wet Well; 5.) Adjustments to Site Grading; 6.) Fuel Contaminated Soil Mitigation; 7.) Electrical Handhole Replacement; 8.) Change Order Accounting Adjustment.

Address:

Walsh Construction Co. II LLC

3031 West Grand Blvd., Suite 640

Detroit, MI 48202

Change Order No. 39 Date: December 08, 2023

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	LOCATION: The Northeast Sewage Pumping Station (NESPS) Detroit, Wayne County, Michigan					
39 -1	DESCRIPTION (Extra/ Add): Provide compensation for the Electrical and Mechanical requirements for the Wet Well Elevator Rehabilitation. REASON:	LS	1 ea.	\$314,334.42	\$314,334.42	-0-
	The complete reconstruction of the existing Wet Well Elevator requires modifications and general upgrades to the existing electrical and mechanical systems that support the elevator's operation. The previously approved Change Order for the elevator replacement addresses the elevator itself, and this Change Order will address other major building modifications necessary for the elevator's operation.					

Page 1 of 8

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -1	Addressed in this Change are work items including demolition of existing (obsolete) elevator equipment, mechanical changes for the elevator pit drainage function, replacement of the steel screen and door frame entry at the lower "mezzanine level", replacement of exterior doors and frames at the machine room entrance, machine room ventilation improvements, electrical system upgrades for power and instrumentation requirements, and painting of exposed steel structural members. Noted further is the significant requirement that all electrical components must satisfy the rigid Class I, Division I code specifications for Hazardous Atmosphere conditions. Attachments: Walsh Construction Co. PCI 970195					
39 -2	DESCRIPTION: (Change/Add): Remove portions of the existing Standby Generator foundation slab to allow for the full width construction of the adjacent site roadway.	LS	1 ea.	\$11,126.60	\$ 11,126.60	-0-
	REASON: The previous "Y-2K" era construction by DWSD of the heavy concrete base slab for the standby generator complex partially encroached into the proposed NESPS westerly concrete site access roadway. Limited by site security fencing on the opposite side, it was deemed necessary to remove a longitudinal, full length tapered "edge" section of the generator slab. Due to the massive construction of the slab concrete, specialty concrete sawcut services were required to allow for a neat-line removal of the concrete without disturbing the remaining slab integrity. Included also is an upgraded pavement joint detail between the generator slab and the new roadway to ensure long term performance. Attachment: Walsh Construction Co. PCI # 970205					

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -3	DESCRIPTION: (Change/ Add) Install a new drainage structure and associated underground drain lines to address site drainage issues adjacent to the new Electrical Building.	LS	1 ea.	\$ 14,342.36	\$ 14,342.36	-0-
	REASON: Construction of the new NESPS Electrical Building and site roadway improvements created an isolated condition where surface runoff was prevented from reaching a natural collection point. The solution was to install a new drainage structure ("catch basin") with the necessary underground piping to convey flow to a nearby manhole. The drainage work required installations under, or adjacent to, the proposed concrete site paving and thereby required fully compacted CI. II sand backfill. Attachment: Walsh Construction Co. PCI 970210					
39 -4	DESCRIPTION: (Changel Add): Modify the proposed site paving plan to improve access to the Wet Well grade level Hatch Opening. REASON: Final site grading for the proposed site roadway adjacent to the Wet Well access hatch opening suggested paving improvements were possible to enhance access to the Wet Well top slab for vehicular and cleaning equipment. The work involved the addition of approach ramps, concrete slab depth increases, safety bollard location changes, and related detailed work. Attachment: Walsh Construction Co. PCI 970214	LS	1 ea.	\$ 4,033.51	\$ 4,033.51	-0-
39 -5	DESCRIPTION (Change/ Add): Perform site grading adjustments to "blend" the finish elevations of the new site roadway with the existing surface elevations adjacent to the curb and/or roadway surface.	LS	1 ea.	\$ 26,291.73	\$26,291.73	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
95	REASON: Completion of the site roadway improvements allowed for final grading of the existing site contours to conform to, and/ or transition with, the adjacent soft-surfaced (turf) conditions. In particular, the northwesterly quadrant of the site required significantly greater grading adjustments than other areas due to the existing natural condition of the site contours. Attachment: Walsh Construction Co. PCI 970215					
9	DESCRIPTION (Change/ Add): Provide compensation related to the investigation and disposal of contaminated (diesel fuel) soils adjacent to the standby Generator slab.	LS	1 ea.	\$ 4,718.17	\$ 4,718.17	-0-
	REASON: The removal of existing concrete pavement and subsequent sub-base excavation disclosed the presence of soil contaminated by apparent diesel fuel accumulation. This condition is presumed to result from minor fuel spillage that occurred from routine tank filling and/or system maintenance activities that took place during the preceding years of generator operations. Once discovered, the Engineer inspected the conditions, collected representative soil samples, and conveyed the samples to a specialized Analytical Laboratory for analysis. The soil was confirmed as contaminated, however, with levels of contamination considered acceptable for disposal at Type II Landfill facilities. The material was removed to the limits determined appropriate by the Engineer to define a "clean condition", and the material was temporarily stockpiled pending final administrative procedures.					
	Attachment: Walsh Construction Co. PCI # 970217					

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -7	DESCRIPTION (Change/ Add): Remove and replace an existing electrical handhole partially obstructing the proposed concrete site paving at the northwest corner of the NESPS facility.	LS	1 ea.	\$ 8,633.38	\$ 8,633.38	-0-
	REASON: Site paving operations determined that an aged and partially damaged "Quazite" (polymer concrete) electrical handhole would be partially encroaching into the new concrete pavement. As this type of structure is unsuitable for traffic loadings, and further with the existing deteriorated condition, it was determined advisable to replace the structure with a new standard precast concrete handhole with frame and cover. Additionally, alignment adjustments were made to the edge of pavement limits to ensure the structure is located fully within the pavement. Attachment: Walsh Construction PCI 970218					
39 -8	DESCRIPTION (Change/ Add) Provide a change order accounting adjustment for a typographical error that occurred in Change Order # 38. REASON: The final calculated value for previous Change Order # 38 included a typographical error which was reflected in the approved Change Order Value; C.O.#38 value, as reported: \$ 29,244.28 C.O #38 value, corrected: 29,444.28 Difference (Add): \$ 200.00 This value is included in C.O.# 39 to correct this oversight.	1	LS	\$ 200.00	\$ 200.00	-0-

Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
********** End of Change Order # 39					
				Amount Increase	Amount Decrease
			Totals Net Changes (Increase)	\$383,680.17 \$383,680.17	-0-

Prepared By: Lawrence T. Gilbert, P.E. NTH Consultants, Ltd.	Januari. Slbat	Date:	12-13-23
Recommended By: John Michalski, P.E. Engineer of Design, Appl	ed Science, Inc.	Date:	12/13/2023
Approved By:	Vagelos Bantios for	Date:	12/18/2023
Joel Brown, P.E. Chief Engineer, Construction Projects Unit, WRC			
Stephen Downing	Stephen Downing	Date:	12/15/2023
Construction and Mainter	ance Manager, Macomb County Pub	lic Works	
Approved by: Steve Korth, P.E. Chief Manager, WRC		Date:	
All of the Construction Maidentified herein. No adjustible subsequent related Chan	nager's contractual obligations remai stment to contract time or price shall b ge Order.	in in place and are applic se made for these issues	cable to all work and payments except as set out in this, or by a
The Construction Managon the basis indicated.	er agrees to do the work described ab	ove and agrees to accep	ot Contract time adjustments in full
Accepted by:	Title	Date	
of:	Valsh Construction Co. I	Linc	
	er is hereby authorized and instructed		ed above in accordance with the
This Change Order No.	39 was approved by the Drainag	ge Board on: Date:	
	Page 7	of 8	

Attachment No. 1 to Change Order No. Thirty-Nine

The Engineer has reviewed the items included in this Change Order and confirms that these adjustments to the Contract are reasonable and in accordance with industry standards and the requirements of the Contract.

Contract Status Summary Change Order No. Thirty-Nine OMID NESPS Pump & Electrical Upgrades Project

Construction Manager at Risk: Walsh Construction Co. II

Project Award Date (Pre-Construction Services)	December 16, 2019
Notice to Proceed Date (Construction Phase)	October 23, 2020
Contract Substantial Completion Date (Original)	March 28, 2023
Contract Final Completion Date (Original)	June 22, 2023
Total GMP Contract Value (Including Control Structure 9) (Reconciled for separation of Pre-Construction Costs)	\$ 42,933,381.88
C.O. Values, # 7 through # 38, and including CS-9 C.O. # 1,2,3,4	\$ 6,476,360.50
This Change Order # 39	\$ 383,680.17
Adjusted GMP Contract Value, Pump & Electrical Upgrades and CS-9 Projects (Including this C.O. # 39)	\$ 49,793,422.55

Oakland-Macomb Interceptor Drain Drainage District

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 9

Construction Estimates

Northeast Sewage Pumping Station- Pumping and Electrical Systems Upgrades Project Located in the City of Detroit, Wayne County, Michigan

Regular Construction Estima	te No. Thirty-Eight		November 01 through	Nov	vember 30, 2023
Page One of Two	Department No.:	6010101	Account No.:		731472
	Fund No.:	84917	Program No.:		149015
	OMID Project No.:	1 3309	Activity:		FAC
Construction Manager at Ris	k:	Vendor # 23191	LI 43331; exp. 12/16/22		
Walsh Construction Co.			Date of Contract:		Dec. 16, 2019
3031 West Grand Boulevard, S	Suite 640	(Adjusted	Final Completion Date:		July 28, 2023
Detroit, MI 48202		Contract No. 5977			
Orig. GMP amount for Pump &	Elec. Upgrades Proje	ect, and including CS-9			\$44,107,745.19
Pre-Construction Payment (Se	eparate Accounting)				(\$1,244,560.00)
NESPS Pump & Elec. Upgrade	es Original Contract B	udget			\$42,863,185.19
Change Orders, This Estimate:	C.O. # 38				\$29,444.28
Previous C.O.s: (Numbers 7 through No. 37 and CS-9 # 1 through # 4)					\$6,432,085.73
Note: C.O. # 30 includes the budget transfer of \$70,196.70 from Pre-Con to GMP budget)					\$70,196.70
Adjusted Contract Amount inclu	uding CS-9 values				\$49,409,742.38
Sub-Total To Date				\$	39,841,306.25
Less Deductions:			None	\$	-
Gross Estimate: (Work in Plac	e - Amount Complet	e = 81 %)		\$	39,841,306.25
Less Amount Reserved (max. 1	10% of 50% of total C	V, including CS-9 value)		\$	2,470,487.12
Total Amount Allowed To Date:	:				\$37,370,819.13
Less Previous Estimates:					\$37,181,896.52
Payment Due					\$188,922.61
Reserve Pay to Contractor:					\$0.00
Balance to Finish: \$ 9,568,436.	13		Accounting Auditor:		
Amount to be Reserved					2,470,487.12
Less Previous Transfer to Rese	erve				2,469,024.89
Amount of Current Transfer					\$1,462.23

Regular Construction Estimate No. 38, November, 2023 - NESPS Pump & Electrical Upgrades

Page Two of Two		
Prepared by: Taulen I - Like	Date:	12-12-23
Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.		
Recommended by:	Date: _	12/13/2023
John Michalski, P.E., ASI		
Recommended by:	Date:	12/18/2023
Joel Brown, P.E. Oakland County WRC		
Recommended by: Stephen Downing	Data	12/15/2023
Stephen Downing; Macomb County OPWC	Date.	
Regular Construction Estimate No. 38, November, 2023 NESPS Pump & Electrical Upgrades Project		
	Approved By Board On:	

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD For Construction of the NI-EA OMID Contract 1 - PCI 4 Rehabilitation

truction of the NI-EA OMID Contract 1 - PCI 4 Renability Located in the City of Detroit, Wayne, Michigan Project ID 1-0000003308

Regular Construction Estimate No. 33			Period: 11/01/23 through 11/30/23			
	Department No.: Fund No.: Project No.:	84917	Account No.: Program No.: Activity:	731472 149015 FAC		
Contractor: Marra Services, Inc. 700 E. 73 rd. Street Cleveland, OH 44103		Vendor # 29656 Contrac LI # 44838 exp. 1/20/23	t # 6323 Date of Contract: Final Completion Date: Adj. Final Completion:	January 21, 2021 September 9, 2022 May 12,2023		
Original Construction Contract	ct Amount			\$14,732,510.00		
Previous Change Orders: No	o. One, Two, Three,	, Four, and Five		\$1,287,656.61		
Change Orders This Estimate	e: None			\$0.00		
Total Net Change Orders:				\$1,287,656.61		
Adjusted Contract Amount:				\$16,020,166.61		
Sub-Total To Date				\$14,975,014.10		
Less Deductions: None				\$0.00		
Gross Estimate, Work in Place	ce	93.5% Complete		\$14,975,014.10		
Less Amount Reserved (Max	x. at 10% of 50% o	f adjusted C.V.)		\$801,008.33		
Total Amount Allowed To Da	te:			\$14,174,005.77		
Less Previous Estimates				\$13,921,505.77		
Net Payment Request To Be	Paid To Contracto	r;		\$252,500.00		
Reserve Payment to Contrac				\$0.00		
Balance to Finish: \$1,045,15 Amount to be Reserved from Less Previous Transfers To I Amount of Current Transfer	Above		Accounting Auditor:	\$801,008.33 \$801,008.33 \$0.00		
Prepared by: Lawrence L Gilbert, P.E.; NT	TH Consultants Ltd		Date: _	12-12-23		
Recommended by: 50 Saju Sachidanandan, P. E.;	VTH Consultants Lt	id AyA	Date: _	12/13/2023		
Recommended by:(for) Joel Brown, P.E. Oakla	nd County WRC	<u></u>	Date: _			
Recommended by: Stephen Downing; Macomb	County OPWC		Date: _			
Regular Pav Estimate No 33:	:Nov. 01 through No	ov. 30, 2023	Approved By Board On:			

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD

For Construction of the NI-EA OMID Contracts 2 A and 2 B - PCI 18 and 19 Rehabilitation Located in the City of Detroit, Wayne County, Michigan

Project ID: TBD

Regular Construction Estimate No. Four (Co	ontr. 2-A Only)	Period: Nov. 1 thro	ugh Nov. 30, 2023
Department N Fund N Project N	lo.: FND84918	Account No.: Program No.: Activity:	TBD TBD FAC
Contractor: Z Contractors, Inc. 50500 Design Lane Shelby Township, MI 48315	Vendor # TBD Contract # LI # TBD exp. TBD Final Completion Dates Adjusted Final Completion	Date of Contract: Oct. 28, 2024 (2A)	NTP 6/29/2023 & June 24, 2025 (2-B)
Original Construction Contract Amount	(Contract 2-A, Only)		\$9,488,650.00
Previous Change Orders: None			\$0.00
Change Orders This Estimate: None			\$0.00
Total Net Change Orders:			\$0.00
Adjusted Contract Amount: (Contract 2A Or	nly)		\$9,488,650.00
Sub-Total To Date			\$1,966,774.45
Less Deductions: None			\$0.00
Gross Estimate, Work in Place	20.73% Complete		\$1,966,774.45
Less Amount Reserved (Max. at 10% of con	npleted work)		\$196,677.45
Total Amount Allowed To Date:			\$1,770,097.00
Less Previous Estimates			\$975,145.49
Net Payment Request To Be Paid To Contra	ctor:		\$794,951.51
Reserve Payment to Contractor:			\$0.00
Balance to Finish: \$ 7,521,875.55 Amount to be Reserved from Above Less Previous Transfers To Reserve: Amount of Current Transfer	4	Accounting Auditor:	\$196,677.45 \$108,349.50 \$88,327.95
Prepared by: Lawrence T. Gilbert, P.E.; NTH Consultants	Ltd.	Date: _	12-12-23
Recommended by: Saju Salu Sachidanandan, P. E.; NTH Consultants	s Ltd. Ayt	Date: _	12/13/2023
Recommended by: Jennifer Cook, P.E. Oakland County WRC		Date: _	12/18/2023
Recommended by: Stephen Downing; Macomb County OPWC	ming	Date:	2/15/2023
Regular Pay Estimate No. Four ; November 2	1 through 30, 2023	Approved By Board On:	

Agenda Item No. 10

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

Oakland Macomb Interceptor Drain (OMID) Repairs Project Progress Update

Prepared by:

F. Klingler, P.E., B. Kelly, P.E., FK Engineering Assoc.

S. Sachidanandan, P.E., L. Gilbert, P.E., NTH Consultants, Ltd.

J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco Services, Inc.

J. Matteo, P.E., Jacobs Consultants Inc.

December 20, 2023 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (December 12, 2023) 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: Complete

Odor and Corrosion Control Design

• Project Budget: \$963,223.90

Total Spent (approximate; through October 18, 2023):

\$823,182.11

Effort is currently on time in accordance with Jacobs' latest design schedule.

Status of Major Project Tasks:

- Jacobs continues to prepare the 100% Design package and plans to submit to OMIDDD on December 15, 2023. The 100% Design package will include the 100% Design drawings, specifications, and a comment resolution form. A future workshop/design coordination meeting will be scheduled to coordinate remaining items to advance to an "Issued for Bid" set. The Bidding Phase will likely begin after the end-of-year holidays and in early 2024.
- The design of the 15 Mile Road/ITC Corridor (CS-6) odor/corrosion control system is currently on hold until the terms for grant funding of the adjacent Sterling Heights parcel (east of the ITC Corridor) are clarified with the National Park Service (grant originator), and data from other odor control sites is available.
- Jacobs prepared and submitted the EGLE Part 41: Wastewater Permit application and will be following
 up with EGLE reviews. Jacobs continues to work through the City of Sterling Heights preliminary site
 plan and site plan permit application packages and review comments. Jacobs is also preparing
 responses and changes to the design in response to the Macomb County Department of Roads (MCDR)
 review comments for a construction in a right-of-way permit.
- Jacobs continues to support WRC on behalf of OMIDDD to identify construction contractor staging/storage area(s) for use during construction and to begin coordination with property owners.

SRF Segment 2 Status:

Contract 3 (Base Contract & C.O. 2E-2J): Complete

SRF Segment 3 Status:

Contract 4: Complete

SRF Segment 4 Status:

Contract 5A/5B: Complete

• City of Utica Use Agreement for access paths is pending; awaiting final authorization (which is close).

Contract 6: Complete

Contract 7 (NIEA 110 feet of Emergency Rehab): Complete

NESPS Odor/Corrosion Control System (No Segment or Contract No.): Complete

NESPS & OMID Maintenance, Operations & Upgrades Status:

Status of Emergency Contingency Plan for pumping during total power loss or other catastrophic system failure:

- Mersino is under contract for standby emergency bypass pumping. No activity this month.
- The OMIDDD Project Team has finalized design for keeping the 15 Mile Road bypass pumping arrangement (initially constructed in summer 2021) intact and buried below grade, pending final agreement with ITC and other easement owners. Currently under review by ITC, Sterling Heights, and coordinating with other easement holders. Final design package to be used to solicit bids from several OCWRC and MCPWS Blanket Contract Holders. Field work will follow after use of the area for storage of pipe for the MIDDD Segment 5 project (spring or early summer 2024).
- Remaining items in the final emergency plan include punch-list and optimization steps for
 electrification, modifications at the 15 Mile Road Site, and overall optimization of the
 Emergency Plan per above. The final plan document will be revised after final installation of the
 emergency pumping conveyance conduit.

Additional work being performed under Metco Maintenance Contract for NESPS:

- Mechanical and Electrical corrective/preventative maintenance schedules continue.
- Coordination between OMIDDD, GLWA, MIDDD, NESPS, and Pump/Electrical Upgrade Project is ongoing and has not impacted station operations or the ability to meet

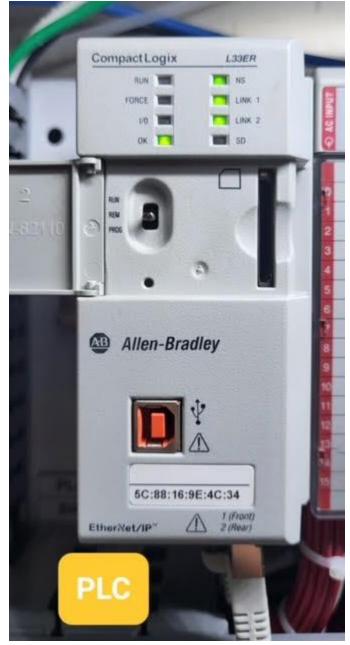
demand.

- The wet well elevator remains disabled, with re-construction plans in progress.
 Progress toward final completion in 2024 continues with custom parts starting to arrive according to Lardner. Construction start is anticipated for April-May 2024.
- The quarterly wet well bar screen cleaning is scheduled for January 2024. The north bar screen was cleaned on September 27, 2023 during wet well isolation for Pump 5 knife gate valve (KGV 5) installation. The south bar screen remains in good condition with a cleaning date still to be determined. The project team decided on September 19, 2023 to discontinue periodic sediment inspections. AEW produced a closeout memo documenting data collected to date and reasoning behind discontinuing monitoring.
- The 25-ton crane is back in service, with a repair report on file. The four-ton crane is on standby. An annual inspection was completed November 30, 2023 o for both cranes and the report is on file.

Overall NESPS Station Performance Report by METCO:

- Mechanical: Sanitary Pumps #1 #2, #3, #5, and #6 ready for duty (Pumps #1 and #3 provisionally approved for use). Total Pumping Capacity equals 550 CFS. Contract Capacity 423cfs. Firm Capacity 400cfs. Sanitary Pump #1 is sensing high vibration upon shutdown of Sanitary Pump #3 when both are in operation. This issue is under review by Walsh and the OMID team. In the meantime, both Pumps #1 and #3 remain in rotation but in an emergency use only mode until we gather more information.
- Sanitary Pump #4 is currently out of service. The Pump #4 Variable Frequency Drive (VFD) has failed catastrophically, and the unit is no longer serviceable. A purchase order for a new Toshiba MV 2000HP VFD Drive was submitted by Rotor on October 27, 2023. The drive unit is in stock and reserved with an expected lead time of 28 weeks. Shop drawings are 12 weeks out. The project continues on track for completion in the June-July 2024 timeframe.
- New Sanitary Pumps #1 and #3 remain on limited (less than specified) pumping capacity, while provisionally approved by OMIDDD for use. Operational use of both Pumps #1 and #3 has been approved, in writing, by Flowserve. After ongoing efforts to mitigate pump capacity issues, pressure taps on the suction pipe were installed per Flowserve recommendation, in order to better diagnose the proper resolution to the issue. Based on date from the testing, it appears that a "pre-rotation" condition may exist within the intake manifold of Pumps 1, 2, and 3, which may be contributing (or causing) the reduced capacity issue. This can be better determined by conducting a physical model, which will also help determine options for correcting the condition. A physical model is now being planned. The engineering team discussed and determined that in the meantime, demolition of Pump 5 will be authorized to proceed, as the physical model will be complete in time to inform any necessary re-design of Pump 5; and because the "pre-rotation" issue is not expected in Pumps 4 through 6, due to their configuration.
- The wet well dewatering pump remains ready for duty.

- NESPS/GLWA LOTO (Lock-Out Tag-Out) final forms are complete. All personnel are required to fill out forms before any sewer entry. There have been no issues with LOTO procedures during this reporting period.
- The primary switchgear in the existing station remains double-ended with two sources of utility power (Transformer #3 and Transformer #4). Generator back-up is available if needed to power pumps Pumps #2, #5, and #6.
- Dry well submersible sump Pumps #1 and #2 are in service and ready for duty.
- Specific data logging software continues to monitor Sanitary Pump #2 VFD drive programmable logic controller (PLC). This software was instrumental in detecting the VFD faults experienced November 14, 2022, which disabled the pump.
- CMMS: NEXGEN asset management in use. Monthly status meetings are being held with OMID. Contractors are fulfilling their requirements with no outstanding issues to report.
- HVAC: Gas detection is in use. Rounds are conducted daily. Unit air filters are restocked and changed as required. Erratic spikes of H2S and methane have triggered alarm sirens and strobes inside the Pumpstation. Troubleshooting has determined that a faulty drywell chamber sensor is likely the issue. After a visit from an MSA technician on November 9, 2023, a failed PLC was confirmed to be the issue. An order for replacement has been issued. All personnel



Failed PLC at Bio-filter

have been notified of the issue and told to resort to personal gas monitoring until corrections are made.

- Bio Filter performance has been acceptable. Irrigation process has been limited by another PLC failure. Motor City Electric has processed an order for replacement. This has not impacted the Bio-filter's ability to function at this time. The team expects to have the component installed and programmed by year's end.
- Overall General Housekeeping tasks remain in order. Minor maintenance activities continue to be addressed in a timely manner.

Control Structures Performance Report (CS-5, CS-6, CS-7, CS-8):

- Daily flow control operations continue to support MID/OMID/NIEA repair and improvement projects. (Weather permitting)
- Semi-Annual Preventative Maintenance completed.
- All LOTO protocols are in place.
- System-wide communications are good.
- CS-6 gate is in stand-by mode and ready for service.
- CS-5 and CS-8 in stand-by mode and ready for service.
- CS-9 in stand-by mode and ready for service. A return visit was completed by Sunsource on November 14, 2023. Below is a summary of Sunsource's onsite activities:
 - SunSource confirmed that the solenoid valves for emergency closure had failed and had been leaking internally, thus contributing to gate drift on both gates.
 - SunSource confirmed that the proxy switch fittings that had been previously replaced had also failed, causing external leakage and contributing to gate drift. These switches have been replaced with no further leakage noted.
 - SunSource replaced the solenoid valves for emergency closure on both gates. They also replaced the speed control and load control valves for both gates.
- Hydrogate performed an inspection of the gate structure and bulkhead. Hydrogate confirmed
 that damage to the wedges was caused by debris being lodged in gate during the opening
 sequence. Hydrogate will be providing a proposal for replacement options. Hydrogate did not
 indicate the gates could not be used without wedges and noted no other operational issues with
 the gates.
- No gate drift or oil leaks are apparent at this time.
- The engineering team continues to monitor gate activity and expect to ask for an extension to the warranty.
- Routine daily rounds and inspections made.

Other System Operation Issues

- O&M Manual is currently being revised to include new structures, recently modified structures, new monitoring equipment, and recent inspection and repair status.
- EGLE has informally agreed to consent to use of all flow control structures for long term flow control. Request for formal consent is promised but not yet received.

OMID Control Structure Upgrades Status:

- ASI continues design of major upgrades to control structures which takes into consideration long-term operability.
- Initial inspections, planning, and Basis of Design are complete.
- Final Design package submitted to OMID for review.
- Currently considering options for packaging and contract delivery (i.e., one or multiple contracts, etc.)
- Currently evaluating potential impacts on other projects and best timing for nodding, although start of the work is tentatively planned for Fall of 2024.

OMID System 3-Year Spot Repairs Status: Complete

OMID System 6-Year Inspection Status:

• All inspections are complete and final report is under OMID review.

NIEA Repairs (Design/Construction)

Contract 1 (PCI-4 Rehabilitation): In Construction

Amt Invoiced: Construction cost to date is \$14,722,514.1, representing approx. 91.9% of the

adjusted Contract value.

Schedule Status: The adjusted Substantial Completion date is April 12, 2023. The Contractor is

operating approximately 271 days behind the adjusted schedule, with time

extensions requests under consideration. The Contractor has improved productivity during this reporting period. An accounting of Liquidated Damages is included with each payment application, shown as a debit against the retention account; however, funds will not be withheld until a final reconciliation of the schedule is completed.

Contract 1 (PCI-4 Rehabilitation) Construction Status:

Channeline lining is complete with approximately 1,334.5 linear feet grouted in place.

- QuakeWrap lining is complete with approximately 180 feet grouted in place.
- RockHard SCP lining is complete with approximately 185 feet grouted in place.
- Work is currently underway on the end-taper segments of the lining. Substantial completion of the Access Structure is projected for January 2024.
- The current construction cost to date is \$14,975,014.10, representing 93.5% of the total current contract value. Overall substantial completion of the project is expected by January 2024.
- Geotechnical monitoring of construction activities at the access shaft location indicates continuing stable conditions.



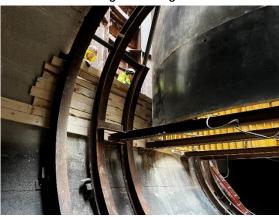
Contractor pouring Quadflow for lining transition section



Contractor smoothing RockHard joints



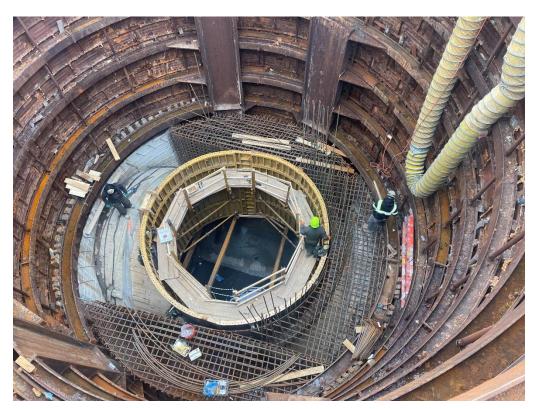
Subcontractor filling dewatering wells at Access Shaft



Placement of initial formwork within pipe



Formwork for Access Structure



Progress of rebar installation at Access Structure

Contract 2A (PCI-18/19 Rehab): In Construction

Amt Invoiced: \$1,966,774.454 out of \$12,596,800 (construction, Contract 2A only) representing

20.7 % complete.

Schedule Status: Contract 2A: Approximately 60 + days behind as a result of permit and watermain

relocation issues; this time will be credited to the Contractor, with no increase in

construction budget.

Contract 2 (PCI -18/19 Rehabilitation) Design Status:

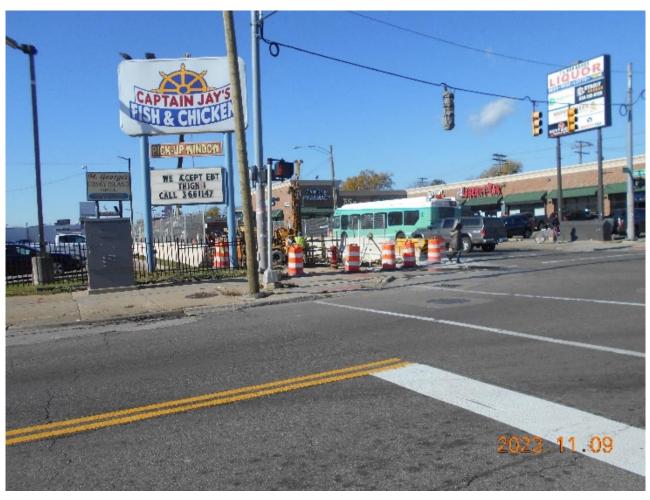
 Physical work is commencing following a "Right of Entry" agreement with the City of Detroit for a laydown area at East Brentwood Street and Van Dyke.

- The Contractor has prepared the site laydown area (Van Dyke Ave at E. Brentwood St.). Traffic control equipment has been moved on site, and MDOT has approved the temporary traffic control plan with work also underway on signal, lane closure, and signage revisions.
- An informational flyer explaining the project has been delivered to residents and local businesses.
- The fourth Application for Payment for work performed by the contractor (\$794,951.51, for total billings to date of \$1,966,774.45) is under review by the Project Team
- Work has been completed on the installation of stabilizing ribs in the existing 7 Mile Road (DWSD) sewer and in the OMID 8' dia. adit sewer as well as other general site work. Work on the 7 Mile Rd. watermain relocation is currently delayed by permitting issues with DWSD and EGLE





Removal of PC 663 precast cover



Site status in early November 2023

The **draft** line item schedule and budgets for OMID NIEA Contracts 1 and 2 are summarized:

Work Item/ Milestone	Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
Lining Study Final Report	\$126,744		10/30/2019
90%, 100% Design Package			3/20/2020 and 4/28/2020 (Contract 1) 4/16/2021 and 10/1/22 (Contract 2)
Issued for Bid			6/10/2020 (Contract 1) 11/4/22 (Contract 2)
Bid Opening			9/30/2020 (Contract 1) 3/1/23(Contract 2)
Contract Award and NTP			12/16/2020 and 1/04/2021 (Contract 1) 6/20/23 and 7/1/23 (Contract 2)
Subtotal - Design	\$2,400,570		
Substantial Completion of Construction	\$3,500,000	\$28,630,000	Contract 1, projected SC at 1/24; FC 2/24 Contract 2A& B, est. 10/28/24 and 6/25/25.

NESPS Pump and Electrical Upgrades Project

Budget Status: The total construction amount invoiced as of November 30, 2023, is \$39,841,306.25

out of \$49,409,742.38 (including the operational Control Structure 9 Bulkhead Gate

facility and adjusted for stored material inclusion in major work activities),

representing 81% of the Pump & Electrical Upgrades Project, with additional change

order additions equalizing the regular work completion values.

Schedule Status: Work is currently delayed by issues related to performance testing at Pump #1 and

#3. The Contractor is working on an enhanced schedule to make up time but there is

currently an estimated delay in excess of 18 months.

The following Design Team and Construction Services Effort is active:

• Construction Phase services (RFIs, Submittals) are ongoing, and the engineering team is reviewing and responding.

- The new Sewage Pump #1 and #3 and Motor have been installed, with in-place testing in progress. Both pumps are approved for provisional use but are operating below design capacity. See further discussion of this issue in the "Overall NESPS Station Performance Report by METCO" on Page 3 of this report.
- A review of alternative energy saving methods and pump sequence remains ongoing, incorporating GLWA SCC comments.
- Installation of small diameter conduit runs, lighting improvements, and wiring in the existing NESPS building is approaching substantial completion.
- Steel discharge piping for Pump 6 has been shipped to the site. All of the discharge piping is now inventoried at the jobsite.
- The August 23, 2022 Arc-Flash incident remains under investigation. The Construction Manager has filed a claim on the OCIP Builder's Risk insurance coverage for this event.
- Schedule adjustments are currently under discussion. The Contractor has revised the sequence
 of rehabilitation for the existing Pump Knife Gate Valves: KG#1 and #2 have been re-installed
 after rehabilitation. KG #5 is rehabbed and installed.
- Work on the alternate discharge piping installation for the Dewatering Pump is complete.
- Work on removal and replacement of the site concrete paving is now complete with Phase 1
 and Phase II of the layout completed. An isolated area of soil contaminated by historical diesel
 fuel spills was encountered adjacent to the standby Generator complex. After an environmental
 assessment, this material is temporarily stockpiled on site awaiting transport to a Type II landfill.

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

Wo	rk Item/ Milestone	Design/CCA Budget	Const Budget	Estimated Delivery Date
2	Final Basis of Design			5/31/2019
7	MDEQ Submittal (Part 41 Permit)			4/8/2020 (initial pkg)
8	90% Design Submittal			6/30/20
9	Final Package Development			8/14/2020
	Subtotal	\$3,826,000		
10	Substantial Completion	\$2,500,000 (est.)	\$49,380,000	5/30/2024 (late)
11	Final Completion		\$49,380,000	8/23/2024 (late)





Contractor pouring Phase II concrete



Placement of topsoil behind concrete



Delivery of Transformer #4 by Laramie Crane



Installation of 6 inch edge drain



Pressure gauges installed at Pumps #1 and #3

OMID Improvements at CS-6 Site (lining btwn CS-12 & CS-4)

OMIDDD work under this contract includes debris removal and lining between CS-4 and Manhole 7-109 (CS-6 and CS-12 site). Debris removal is substantially complete the week of December 11, 2023. Approximately 5,000 tons of debris have been removed in total. Upstream lining efforts will commence before year end, with lining of the OMID portion between CS-12 and CS-4 to follow.



Pipe section being placed within CS-12



Pipe carrier within CS-12

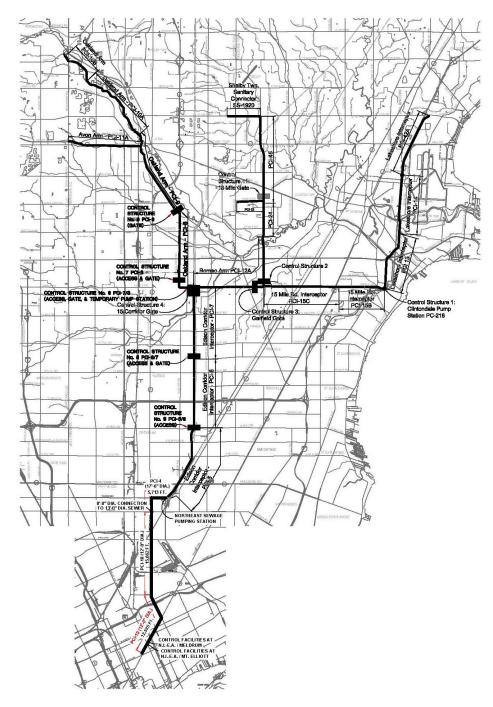


Pipe carrier within CS-12

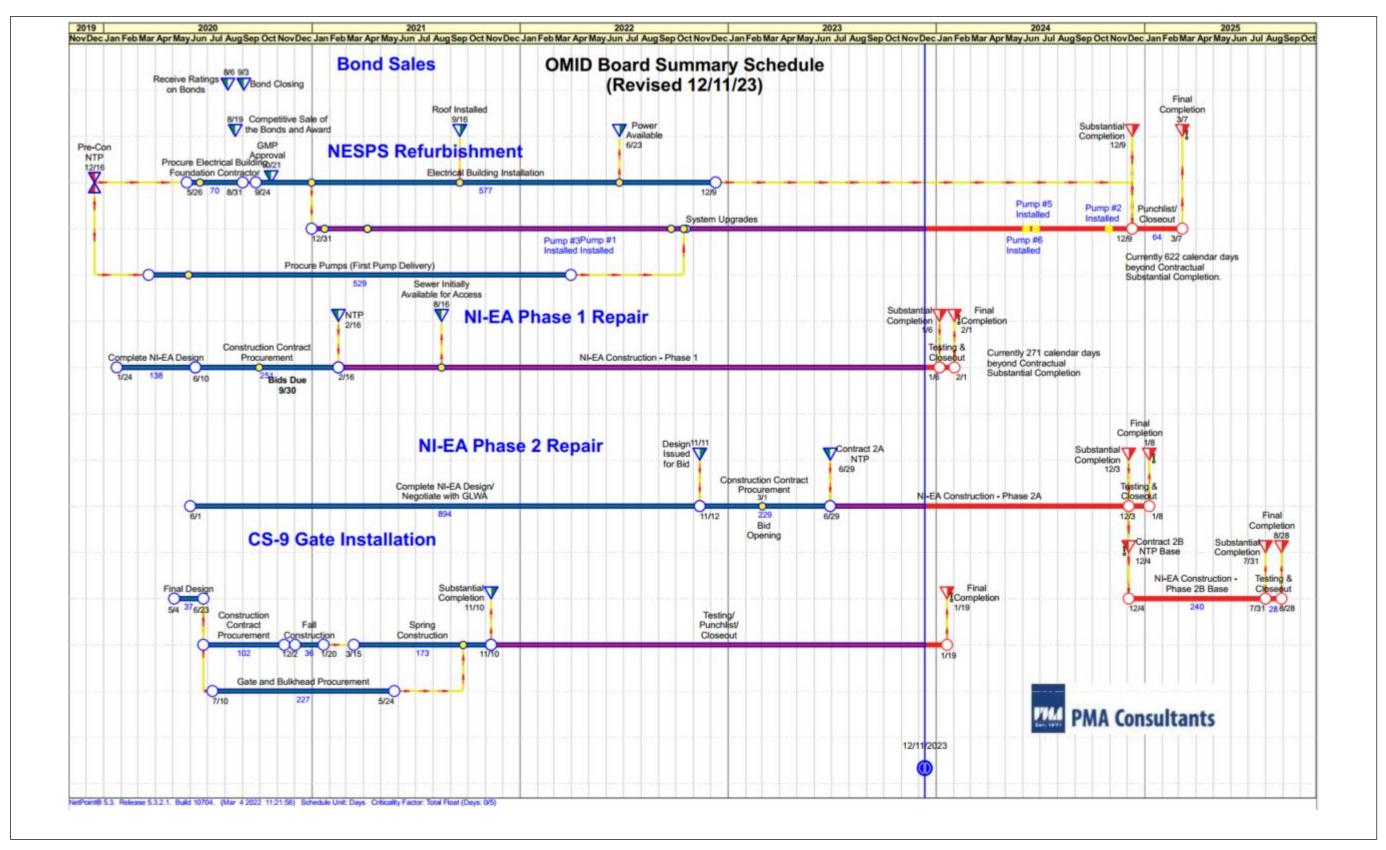
Summary of OMID Design and Construction Status:

		Work In Construc	tion Since A	2009			
Seg. No	Contract No. (Description)	Contractor	Const.	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Ric-Man	Υ	Υ	Υ	Υ	Υ
1	Contract 2 (CS-6, 7, 8)	Ric-Man	Υ	Υ	Υ	Υ	Υ
2	Contract 3-2E (Gatehouse)	IWPC (Weiss)	Υ	Υ	Υ	Υ	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Υ	Υ	Υ	Υ	Υ
3	Contract 4 (Lining PCI-5 thru 8)	Jay Dee Cont.	Υ	Υ	Υ	Υ	Υ
4	Contract 5 (Lining PCI-9, 10A/B)	Lanzo	Υ	Υ	Υ	Υ	N
4	Contract 6 (Lining PCI-11A)	Lanzo	Υ	Υ	Υ	Υ	Υ
N/A	Contract 7 (Lining 110' of NIEA)	IWPC	Υ	Υ	Υ	Υ	N/A
N/A	Odor/Corrosion Control System	CSM	Υ	Υ	Υ	Υ	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/Y/Y	Y/Y/N	Y/Y/N	Y/Y/N	N/A
N/A	OMID Maintenance Repairs	Doetsch	Υ	N	N	N	N/A
N/A	CS-9 Gate Modifications	Walsh as CMR	Υ	Υ	N	N	Υ
N/A	NESPS Pump & Electrical Upgrade	ASI;Walsh as CMAR	N	N	N	N	Υ
N/A	NIEA-OMIDDD Contract 1 (PCI-4)	Marra	N	N	N	N	N
N/A	NIEA-OMIDDD Cont 2 (PCI-18/19)	Z Contractors	N	N	N	N	N

Work Currently in Design/Study/Engineering					
Description	Design Consultant	Status			
System-wide Odor/Corrosion Design	Jacobs	Study Complete, Design nearing completion			
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing			
Emergency Pumping Plan	ASI/NTH/FKE	Draft Plan to be modified following ITC bypass pumping modifications			



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



OMID Project Schedule Summary

MID/OMID Construction Schedule

					**			2024				2025		MII	D/ON	AID Co	ontrol D	evice	s Requ	ired to	Store	low					
Project	Work Location	Owner	Lead Engineer	Contractor	D J	F M	A M	1 1	A S	О	N D	J	FM	АМ	1 CZ	-2 CS	-3 CS-	5 C		S-6 PS C	S-7	CS-8 C	s-9 CS-	-12 CS-1	3 CPS	PC663 Gate	Concurrent Work Notes
Segment 6 Lining	15 Mile upstream of Garfield (15 Mile Interceptor)	MID	FKE	Ric-Man	$/\!/$	$/\!/$	$/\!/$			П		П					-			-	-	-		· Y	Y		Flow control on pause but upcoming. May work concurrent with Segment 5 or NIEA rehabilitation. Schedule is estimated.
Segment o Lining	15 Mile upstream of Garfield & between CS-2/CS-3 (Romeo Arm)	MID	FKE	Ric-Man	$/\!/$	$/\!/$	$/\!/$								١	Y Y	N			-	-	-	- h	Y	Y		May work concurrent with Segment 5 or NIEA rehabilitation. Flow control conditions at the CS gates is similar with the exception of utilizing CS-2. Schedule is estimatedy.
Segment 5 Lining*	15 Mile between ITC Corridor & Eberlein	MID	FKE	ORC	$/\!/$	$/\!/$	$/\!/$	W								. Y	N		Y	-	Y	Y	٠ ,	-	н		If work is concurrent with NIEA rehabilitation; CS-9 is required. Flow control dates may change depending on sediment removal means and methods. Current projected finish is 8 months late.
	PCI-4 Shaft & Lining (Contract 1)	OMID	NTH	MARRA	$/\!/$			П							1	. У	N	1	Y	-	Y	Υ .	γ .		н		If work is concurrent with Segments 5 & 6 Lining; CS-9 is required.
NIEA Rehabilitation (Downstream of NESPS)	PCI-18/19 Flow Control Structures (Contract 2A)	OMID	NTH	Z Contractors	$/\!/$	$/\!/$	$/\!/$	$/\!\!/$	$/\!/$	//	$/\!/$. Y	N		Y		Y	Υ .	γ.		н		Shaft construction. MID/OMID flow control may be required depending on 7-Mile Relief Inter- Connection and PC-663 Gate status. Coordination with GLWA and downstream system when flow is diverted to 7 Mile Relief.
	PCI-18/19 Spot Repairs and Linings (Contract 28)	OMID	NTH	Z Contractors							/	$/\!/$	$/\!/$	$/\!/$	/					-		-				Y	PC-663 Gate closure will divert flow to 7 Mile Relief Sewer. Coordination with GLWA and downstream system when flow is diverted to 7 Mile Relief. NESPS should operate normally to pass DWF rates. (10/2024 to 5/2025)
OMID CCTV Inspection	Throughout System	OMID	NTH	Doetsch												- У	•		Y		Y	Y	- n/	/a -	н		Present work is in upstream manholes so limited flow control necessary. Flow control will be required within certain reaches to facilitate.
CS-9 Gate Level Sensor Work	CS-9	OMID	NTH	Walsh												- Y	•	,	Y	-	Y	¥ .	Y n/	/a -	н	-	Level Sensor replacement
NESPS Improvements	NESPS Pump Replacement	OMID	ASI	Walsh	/											- Y	-		Y	-	Y	¥ .	γ .		н		Will require brief flow control for pump installation, gate installation, and electrical work.
DB-226 DRI Repairs (Reach 2A - 3B)	GLWA - DRI	GLWA	FKE	Jay Dee				П		П		П								-	-	-	. .				Can be effected by flows rerouted from the NIEA to the DRI. Project status changes in late 2024 following completion of Reach 3B after which flow control for NIEA C2B is not impacted
Rigid Seal Study	NESPS Discharge Chamber	OMID	NTH	TBD	/											. у	· ¥		Y	-	Y	Υ .	Y n/	/a -	н	-	Schedule to be confirmed. Reuires 2-3 Days
Inspection and Repair of Discharge Chamber Riser	NESPS Discharge Chamber	OMID	NTH	TBD	/											. Y	· ¥		Y	-	Y	Υ .	Y n/	/a -	н	-	Schedule to be confirmed.
Flow Control Structure Rehabilitation	C5-5, C5-6, C5-7, C5-8	OMID	ASI	TBD											,	N N				-	-	-	N N	-	N		Work will take CS Structures out of Service during Gate and Operator modifications.
MID Inspection	Routine Inspection of MID Manholes & Interceptors	MID	NTH	Doetsch													-			-	-	-					Work time and schedule TBD at this time.
PSPS / COSDS Work (PSPS Shutdown)	PSPS	WRC	n/a	n/a													-		-	-	-		- -	. -	-	-	Diversion to PSPS is 10 MGD. Scheduled shut down of PSPS from September may extend into first part of October; no flow diversion to Pontiac WWTP (CRWRRF) during this time. Will significantly impact storage capabilities on the Oakland Arm CS gates.

Table updated on 12/1/2023. Estimates to be updated as necessary.

PSPS and ELPS operations can significantly impact storage times upstream of CS-6, 7 & 8 and subsequently downstream control structures. Coordination & alerting for ELPS, PSPS, WRC Meters 1222/1223 & 1000 required.

^{- =} Irrelevant



^{*} Flow control will be required for sewer cleaning, cschedule on-going. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section.

^{*} Flow control will be required for sewer lining (Schedule TBD). Flow control CS requirements are defined in the "Control Devices Required to Store Flow" section.

Y = Required to store

N = Required to not store

H = Helpful to extend work times. If available when not required for concurrent work.

Agenda Item No. 11

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

	alance 7 Oakland Macomb InterceptorSeg5 I Period: Month 2, 2024	OMID SEGMENT 5 BOND ISSUE PRJ-13252	OMID NI-EA CONSTRUCTION PRJ-13308	NESPS MECH-ELEC CONSTRUCTION PRJ-13309	YTD Balance
100100	Cash - Operating	2,054,134.00	5,845,485.67	12,952,366.74	20,851,986.41
104100	Accrued Interest on Investment	(167,703.74)			(167,703.74)
	ASSETS	1,886,430.26	5,845,485.67	12,952,366.74	20,684,282.67
201210	Vouchers Payable AP Cont				0.00
222300	Unearned Revenues	576,414.65	(2,407,672.79)	(4,956,470.90)	(6,787,729.04)
	LIABILITIES	576,414.65	(2,407,672.79)	(4,956,470.90)	(6,787,729.04)
655000	Income From Investments	(38,862.62)			(38,862.62)
	REVENUES	(38,862.62)	0.00	0.00	(38,862.62)
730000	Contractual Services		391,916.46	482,356.01	874,272.47
770000	Internal Support Expenditures		6,289.25	8,956.43	15,245.68
	EXPENSES	0.00	398,205.71	491,312.44	889,518.15
381315	FB Restricted Debt	(47,288,433.00)			(47,288,433.00)
382100	FB Committed for Capital Proj	44,864,450.71	(3,836,018.59)	(8,487,208.28)	32,541,223.84
	Fund Balance	(2,423,982.29)	(3,836,018.59)	(8,487,208.28)	(14,747,209.16)
		0.00	0.00	0.00	0.00

Cash as of 11/30/2023 \$ 20,851,986.41

Invoices/Reimbursements for NIEA Construction on Current Agenda impacting Cash Balance (546,390.36)

Invoices/Reimbursements for NESPS Mech / Electrical Construction on Current Agenda impacting Cash Balance (68,938.42)

Total Net Cash Balance \$ 20,236,657.63

Company
Projects and Project Hierarchies
Budget Structure
Period

Oakland County PRJ-13308 OMID Project Task FY2024 - Nov

Project	Final Budget	Actuals MTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	28,395,600.00	427,148.32	398,205.71	398,205.71	22,556,857.75	5,838,742.25
1 > Administration	584,000.00	0.00	0.00	0.00	175,749.40	408,250.60
1 > Contingency	2,581,000.00	0.00	0.00	0.00	0.00	2,581,000.00
1 > Engineering	478,000.00	4,273.20	4,709.48	4,709.48	215,502.10	262,497.90
1 > Engineering Consultants	4,913,000.00	82,680.06	62,680.06	62,680.06	5,477,728.82	(564,728.82)
1 > Facility Acquisition	17,983,600.00	339,236.40	339,236.40	339,236.40	16,168,212.44	1,815,387.56
1 > Inspection	260,000.00	0.00	0.00	0.00	0.00	260,000.00
1 > Legal and Financial	1,259,000.00	0.00	(10,000.00)	(10,000.00)	237,060.59	1,021,939.41
1 > Right of Way	265,000.00	958.66	1,579.77	1,579.77	83,439.06	181,560.94
1 > STANDARD	40,000.00	0.00	0.00	0.00	199,165.34	(159,165.34)
1 > Survey	32,000.00	0.00	0.00	0.00	0.00	32,000.00
Project Revenues	0.00	0.00	0.00	0.00	25,994,670.63	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	4,022,827.56	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	21,965,099.65	
RC698200 - Insurance Recoveries	0.00	0.00	0.00	0.00	6,743.42	
Revenue Over/ (Under) Expenses					3,437,812.88	

Company Oakland County

Projects and Project Hierarchies PRJ-13309 NESPS MECH-ELEC CONSTRUCTION

Budget Structure Project Task
Period FY2024 - Nov

	Actuals MTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
54,086,000.00	539,601.20	491,312.44	491,312.44	41,133,633.26	12,952,366.74
620,000.00	38.91	38.91	38.91	44,457.97	575,542.03
4,917,000.00	0.00	0.00	0.00	0.00	4,917,000.00
446,000.00	1,705.76	2,004.97	2,004.97	283,486.66	162,513.34
3,987,000.00	110,196.06	78,677.53	78,677.53	3,359,266.96	627,733.04
40,857,000.00	412,037.07	412,037.07	412,037.07	35,803,157.49	5,053,842.51
285,000.00	4,020.90	6,951.46	6,951.46	396,627.35	(111,627.35)
2,417,000.00	11,602.50	48,012.50	48,012.50	299,362.99	2,117,637.01
393,000.00	0.00	0.00	0.00	0.00	393,000.00
130,000.00	0.00	(56,410.00)	(56,410.00)	945,123.53	(815,123.53)
34,000.00	0.00	0.00	0.00	2,150.31	31,849.69
0.00	0.00	0.00	0.00	49,129,529.10	
0.00	0.00	0.00	0.00	7,291,907.09	
0.00	0.00	0.00	0.00	41,837,622.01	
				7,995,895.84	
	620,000.00 4,917,000.00 446,000.00 3,987,000.00 40,857,000.00 285,000.00 2,417,000.00 393,000.00 130,000.00 34,000.00 0.00	54,086,000.00 539,601.20 620,000.00 38.91 4,917,000.00 0.00 446,000.00 1,705.76 3,987,000.00 110,196.06 40,857,000.00 412,037.07 285,000.00 4,020.90 2,417,000.00 11,602.50 393,000.00 0.00 130,000.00 0.00 34,000.00 0.00 0.00 0.00 0.00 0.00	54,086,000.00 539,601.20 491,312.44 620,000.00 38.91 38.91 4,917,000.00 0.00 0.00 446,000.00 1,705.76 2,004.97 3,987,000.00 110,196.06 78,677.53 40,857,000.00 412,037.07 412,037.07 285,000.00 4,020.90 6,951.46 2,417,000.00 11,602.50 48,012.50 393,000.00 0.00 0.00 130,000.00 0.00 (56,410.00) 34,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54,086,000.00 539,601.20 491,312.44 491,312.44 620,000.00 38.91 38.91 38.91 4,917,000.00 0.00 0.00 0.00 446,000.00 1,705.76 2,004.97 2,004.97 3,987,000.00 110,196.06 78,677.53 78,677.53 40,857,000.00 412,037.07 412,037.07 412,037.07 285,000.00 4,020.90 6,951.46 6,951.46 2,417,000.00 11,602.50 48,012.50 48,012.50 393,000.00 0.00 0.00 0.00 130,000.00 0.00 (56,410.00) (56,410.00) 34,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54,086,000.00 539,601.20 491,312.44 491,312.44 41,133,633.26 620,000.00 38.91 38.91 38.91 44,457.97 4,917,000.00 0.00 0.00 0.00 0.00 446,000.00 1,705.76 2,004.97 2,004.97 283,486.66 3,987,000.00 110,196.06 78,677.53 78,677.53 3,359,266.96 40,857,000.00 412,037.07 412,037.07 412,037.07 35,803,157.49 285,000.00 4,020.90 6,951.46 6,951.46 396,627.35 2,417,000.00 11,602.50 48,012.50 48,012.50 299,362.99 393,000.00 0.00 0.00 0.00 0.00 130,000.00 0.00 0.00 0.00 945,123.53 34,000.00 0.00 0.00 0.00 2,150.31 0.00 0.00 0.00 0.00 7,291,907.09 0.00 0.00 0.00 0.00 41,837,622.01

Company

Projects and Project Hierarchies Budget Structure Period

Oakland County

PRJ-13252 OMID Segment 5 Project Task FY2024 - Nov

Project	Actuals MTD	Commitments	Obligations YTD	Actuals YTD	Total Spend YTD	Actuals LTD
Project Expenses	0.00	0.00	0.00	0.00	0.00	757,136.57
1 > Administration	0.00	0.00	0.00	0.00	0.00	242,201.57
1 > Legal and Financial	0.00	0.00	0.00	0.00	0.00	514,935.00
Project Revenues	38,862.62	0.00	0.00	610,760.91	(610,760.91)	3,219,981.48
PRJ-13252 OMID Segment 5	38,862.62	0.00	0.00	610,760.91	(610,760.91)	3,219,981.48
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	0.00	894,060.05
RC655077 - Accrued Interest Adjustments	0.00	0.00	0.00	0.00	0.00	(80,979.70)
RC655385 - Income from Investments	38,862.62	0.00	0.00	38,862.62	(38,862.62)	1,320,813.80
RC655462 - Increase Market Value Investment	0.00	0.00	0.00	571,898.29	(571,898.29)	1,084.24
RC670513 - Prior Years Revenue	0.00	0.00	0.00	0.00	0.00	0.00
RC697219 - Premiums on Bonds Sold	0.00	0.00	0.00	0.00	0.00	7,672,724.75
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	0.00	(6,587,721.66)
Revenue Over/ (Under) Expenses						2,462,844.91

	alance 8 NIEA Contract #2 I Period: Month 2, 2024	NIEA Contract #2 Bond Issue PRJ-17384	NIEA Contract #2 Construction PRJ-17408	YTD Balance
100100	Cash - Operating	54,954.86	14,140,474.56	14,195,429.42
104100	Accrued Interest on Investment	(4,894.64)		(4,894.64)
	ASSETS	50,060.22	14,140,474.56	14,190,534.78
230852	Accounts Payable	(23,980.00)		(23,980.00)
	LIABILITIES	(23,980.00)	0.00	(23,980.00)
655000	Income From Investments	(26,080.22)		(26,080.22)
	REVENUES	(26,080.22)	0.00	(26,080.22)
730000	Contractual Services	0.00	909,782.24	909,782.24
	EXPENSES	0.00	909,782.24	909,782.24
382100	FB Committed for Capital Proj		(15,050,256.80)	(15,050,256.80)
	Fund Balance	0.00	(15,050,256.80)	(15,050,256.80)
		(0.00)	(0.00)	(0.00)

Cash as of 11/30/2023 \$ 14,195,429.42

Invoices/Reimbursements for Construction PRJ-17408 on Current Agenda impacting Cash Balance

(950,823.00)

Total Net Cash Balance \$ 13,244,606.42

Company Oakland County

Projects and Project Hierarchies PRJ-17408 NI-EA C2 PCI 18&19 Rehab

Budget StructureProject TaskPeriodFY2024 - Nov

Project	Final Budget	Actuals MTD	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	15,600,000.00	915,615.58	909,782.24	909,782.24	1,218,775.15	14,381,224.85
1 > Administration	95,287.00	0.00	0.00	0.00	0.00	95,287.00
1 > Contingency	0.00	0.00	0.00	0.00	0.00	0.00
1 > Engineering	235,465.00	0.00	0.00	0.00	0.00	235,465.00
1 > Engineering Consultants	2,089,000.00	72,084.91	72,084.91	72,084.91	135,280.16	1,953,719.84
1 > Facility Acquisition	12,596,000.00	753,927.60	729,347.83	729,347.83	975,145.49	11,620,854.51
1 > Inspection	230,037.00	0.00	0.00	0.00	0.00	230,037.00
1 > Legal and Financial	279,000.00	0.00	0.00	0.00	0.00	279,000.00
1 > Right of Way	42,000.00	0.00	0.00	0.00	0.00	42,000.00
1 > STANDARD	15,796.00	89,603.07	108,349.50	108,349.50	108,349.50	(92,553.50)
1 > Survey	17,415.00	0.00	0.00	0.00	0.00	17,415.00
Project Revenues	0.00	0.00	0.00	0.00	15,359,249.71	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	9,562,443.00	
RC697219 - Premiums on Bonds Sold	0.00	0.00	0.00	0.00	176,878.45	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	5,619,928.26	
Revenue Over/ (Under) Expenses					14,140,474.56	

Oakland County Company

PRJ-17384 OMIDDD NIEA Contract2 Bond Adm

Projects and Project Hierarchies Budget Structure Project Task Period FY2024 - Nov

Project	Actuals MTD	Commitments YTD	Obligations YTD	Actuals YTD	Total Spend YTD	Actuals LTD
Project Expenses	\$0.00	\$0.00	\$23,980.00	\$0.00	23,980.00	124,622.50
1 > Administration	\$25,275.00	\$0.00	\$0.00	\$0.00	0.00	124,622.50
1 > Legal and Financial	(\$25,275.00)	\$0.00	\$23,980.00	\$0.00	23,980.00	0.00
Project Revenues	\$26,080.22	\$0.00	\$0.00	\$407,327.92	(407,327.92)	150,702.72
RC605572 - Special Assessments Revenue	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00
RC655077 - Accrued Interest Adjustments	\$0.00	\$0.00	\$0.00	\$0.00	0.00	(4,894.64)
RC655385 - Income from Investments	\$26,080.22	\$0.00	\$0.00	\$26,080.22	(26,080.22)	45,525.62
RC655462 - Increase Market Value Investment	\$0.00	\$0.00	\$0.00	\$381,247.70	(381,247.70)	0.00
RC697219 - Premiums on Bonds Sold	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00
RC697551 - Issuance of Bonds	\$0.00	\$0.00	\$0.00	\$0.00	0.00	110,071.74
					_	
Revenue Over/ (Under) Expenses						26,080.22

Oakland County - Water Resources Commissioner's Office Fund Equity: Schedule of Reserves and Dedicated Funds As of Date: November 30, 2023

Fund	Description	Major Maintenance	Emergency Maintenance Reserve	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	2 OMIDD Maintenance Fund	3,387,046.27	3,000,000.00	2,842,705.93	8,565,369.16		17,795,121.36
84917	OMIDD Seg 5 - Project PRJ-13252 Interceptor Seg 5 Bond Adm - Project PRJ-13308 NI - EA Construction - Project PRJ-13309 NESPS Construction					2,462,844.91 3,437,812.88 7,995,895.84	13,896,553.63
84918	OMIDDD North Interceptor East Arm – Contract #2 - Project: PRJ-17384 OMIDDD NIEA Contract2 Bon - Project: PRJ-17408 OMIDDD NIEA Contract2 Con					26,080.22 14,140,474.56	14,166,554.78
Total Eq	uity in Maintenance and Construction Funds						45,858,229.77

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

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMIDD Meeting Date 12/20/2023

		84917	84917	84918	82912	
		1-3308	1-3309	1-7408		
Pavable To	Invoice #	Segment 5 NIEA Construction	Segment 5 NESPS Mech / Electric Construction	NIEA Contract #2 Construction	Operations & Maintenance	<u>Total</u>
Oakland County *	WRC Labor/Fringes/Non-direct Labor (10/21/2023 - 11/17/2023)	5,089.49	5,501.72			10,591.21
Oakland County *	WRC Equipment (10/21/2023 - 11/17/2023)	142.37	224.94			367.31
Oakland County *	WRC Mileage (10/21/2023 - 11/17/2023)		38.91			38.91
Applied Science, Inc	Invoice # 57 (ASI Inv. #8561) Services 10/29/20 to 11/25/23		59,918.21		8,062.87	67,981.08
Clark Hill PLC	Invoice # 1371149 Matter 463149 Vendor Dispute - Walsh Const. Through 10/31/2023		3,595.50		,	3,595.50
Clark Hill PLC	Invoice # 1380412 Matter 463149 Vendor Dispute - Walsh Const. Through 11/30/2023		1,224.00			1,224.00
Clark Hill PLC	Invoice # 1380507 Matter 475622 CH 21 Petition Improvement Through 11/30/2023		,		162.00	162.00
Jacobs Consultants, Inc.	Invoice # C6A19900-11 OMIDD Odor & Corrosion Facilities 06/16/2023 - 06/30/2023				42,151.29	42,151.29
Kennedy Industries	Invoice # 639206 - NESPS Pump 2 Field Service 8/17/2023				1,648.50	1,648.50
Lardner Elevator Company	Invoice # 199339 - F&I New Infra Red 10/25/2023				2,318.00	2,318.00
Lardner Elevator Company	Invoice # 199361 - Job 4825 Additional Insurance 11/03/2023				10,964.00	10,964.00
METCO Consulting Engineers	Invoice # 1811-59 10/30/2023 Through 12/03/2023				82,207.34	82,207.34
Motor City Electric Technologies	Invoice # 95463 T&M NESPS SCADA Work 10/31/2023				180.00	180.00
Motor City Electric Technologies	Invoice # 95464 T&M NESPS SCADA Work 10/25/2023				90.00	90.00
Motor City Electric Technologies	Invoice # 95465 T&M NESPS SCADA Work 11/06/2023				126.00	126.00
Motor City Electric Technologies	Invoice # 95466 T&M NESPS SCADA Work				675.00	675.00
Motor City Electric Technologies	Invoice # 95467 T&M NESPS SCADA Work 11/09/2023				135.00	135.00
Motor City Electric Technologies	Invoice # 95468 T&M NESPS SCADA Work 10/31/2023 &11/06/2023				360.00	360.00
Motor City Electric Technologies	Invoice # 95470 T&M NESPS SCADA Work 09/25/2023				427.50	427.50
NTH Consultants	Invoice # 634509 (D-439) Engineering Services 10/21/2023 -11/17/2023				1,659.24	1,659.24
NTH Consultants	Invoice # 634510 Rehab Close-Out & NESPS Maintenanc Tasks 10/21/2023 - 11/17/2023				778.10	778.10
NTH Consultants	Invoice # 634511 (D-421 & D-462) Engineering Services 10/21/2023 - 11/17/2023		4,161.80			4,161.80
NTH Consultants	Invoice # 634512 (D-458 & D-463) Engineering Services 09/23/2023 - 10/20/2023			67,543.54		67,543.54
NTH Consultants	Invoice # 634513 (D-425 & D-457) Engineering Services 10/21/2023 - 11/17/2023	60,102.34				60,102.34
PM Technologies	Invoice # 84825412 NESPS Generator 3 Monthly Inspection Date 11/13/2023				350.00	350.00
PM Technologies	Invoice # 84827602 NESPS Generator 2 Monthly Inspection Date 11/13/2023				350.00	350.00
PM Technologies	Invoice # 84828599 NESPS Generator 1 Monthly Inspection Date 11/13/2023				350.00	350.00
PMA Consultants	Invoice # 03559.01 - 41 Professional Services Through 10/31/23	22,304.41				22,304.41
PMA Consultants	Invoice # 03559.01 - 42 Professional Services Through 11/30/23	21,098.77				21,098.77
Walsh Construction	Construction Estimate # 38 NESPS Pump & Electircal Upgrades Project	190,384.84				190,384.84
Mara Services	Construction Estimate # 33 NI-EA PCI 4 rehabilitation	252,500.00				252,500.00
Z Contractors	Construction Estimate # 4 NI-EA contract #2A and 2B - PCI 18 and 19			883,279.46		883,279.46
	Total Invoices/Reimbursements for Approval	551,622.22	74,665.08	950,823.00	152,994.84	1,730,105.14
	* Less WRC Charges already paid from OMI Fund	(5,231.86)	(5,726.66)	0.00		(10,958.52)
Total Invoices/Reimburse	ements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	546,390.36	68,938.42	950,823.00	152,994.84	1,719,146.62

Oakland-Macomb Interceptor Drain Drainage District

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 12

Invoices

OMI Sea	ment 5 NESD M	lech - Flect Co	nstruction Project - WRC Labor	/Fringes/Non-D	irect Lahor Facto	or for Trans Date	se - 10/21/2023 - 11/1	7/2023	
Own Seg	HEIR S NESF W	iecii - Liect Co	Instruction Project - WKC Labor	/i filiges/Non-D	Tect Labor Facto	l loi Italis Date	3 - 10/21/2023 - 11/1	172023	
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	182.57	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	121.71	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	243.42	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	243.42	REGULAR	WRCCON	PRJ-13309	ENGINEERING
			BANTIOS, EVAGELOS Total		791.12				
1050210	10/31/2023	10/24/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00	532.08	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	10/31/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/14/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/16/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
			POUSHO, ROBERT Total		3,842.80				
1131289	10/25/2023	10/9/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/16/2023	PUSCAS, JACK J	3.00	260.34	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/23/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/25/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/30/2023	PUSCAS, JACK J	3.00	260.34	REGULAR	WRCADM	PRJ-13309	ENGINEERING
			PUSCAS, JACK J Total		867.80				
			Grand Total		5,501.72				

OMI Segi	ment 5 NESP M	lech - Elect Co	nstruction Project - WRC	Labor/Fringes/N	Ion-Direct La	bor Factor for Tra	ns Dates - 10/21/202	23 - 11/17/2023	
Ciiii Cogi	IIIIII IIII	2,001		Laborringcori	1011 DII 001 Lu	1	10 24100 10/21/201	11,717,2020	+
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023		BANTIOS, EVAGELOS	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
			BANTIOS, EVAGELOS T	otal	19.44				
1050210	10/31/2023	10/24/2023	POUSHO, ROBERT	8.00		ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023		POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00		ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00	21.06	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	10/31/2023	POUSHO, ROBERT	8.00		ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023		POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00		ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023		POUSHO, ROBERT	8.00		ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/14/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023		POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023		POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
			POUSHO, ROBERT Total		178.10				
1131289	10/25/2023		PUSCAS, JACK J	1.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023		PUSCAS, JACK J	1.00		ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00		ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	10/25/2023		PUSCAS, JACK J	3.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023		PUSCAS, JACK J	3.00		ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023		PUSCAS, JACK J	1.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023		PUSCAS, JACK J	1.00		ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023		PUSCAS, JACK J	1.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023		PUSCAS, JACK J	1.00		ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023		PUSCAS, JACK J	3.00		ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/30/2023	PUSCAS, JACK J	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
			PUSCAS, JACK J Total		27.40				
			Grand Total		224.94				

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Personal Mileage and Parking - Accounting Date Range 11/01/2023 - 11/30/2023

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Name/Description	Sum BU Amount
11/24/2023	FND84917	Oakland Macomb InterceptorSeg5	PRJ-13309	NESPS MECH-ELEC CONSTRUCTION	Administration	Robertoy, Katy	38.91

38.91

OMI Segi	ment 5 NI-EA C	onstruction Pr	oject - WRC Labor/Fringes/Non-	Direct Labor Fa	actor for Trans D	ates - 10/21/2023	3 - 11/17/2023		
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1208707	11/9/2023	10/16/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/17/2023	COOK, JENNIFER	3.00	322.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/18/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/19/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/20/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/23/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/24/2023	COOK, JENNIFER	4.00	429.36	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/25/2023	COOK, JENNIFER	3.00			WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/26/2023	COOK, JENNIFER	1.00		REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/31/2023	COOK, JENNIFER	4.50			WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00			WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/3/2023	COOK, JENNIFER	2.00			WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	2.00			WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/7/2023	COOK, JENNIFER	3.00	322.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			COOK, JENNIFER Total		3,381.21				
1094816	11/1/2023		PARROTT, JEFFREY	1.50		REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00			WRCROW	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	2.00			WRCROW	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	2.00			WRCROW	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00		REGULAR	WRCROW	PRJ-13308	ROW
			PARROTT, JEFFREY Total		927.26				
1131284	10/25/2023		PUSCAS, JACK J	2.00		REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	1.00			WRCADM	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	2.00			WRCADM	PRJ-13308	ENGINEERING
1131284	11/8/2023		PUSCAS, JACK J	2.00			WRCADM	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/31/2023	PUSCAS, JACK J	2.00	173.56	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			PUSCAS, JACK J Total		781.02				
			Grand Total		5,089.49				

OMI Segn	nent 5 NI-EA C	onstruction Pro	oject - WRC Labor/Fringes	/Non-Direct La	bor Factor for T	rans Dates - 10/	21/2023 - 11/17/2023		
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1208707	11/9/2023		COOK, JENNIFER	2.00	0.80		Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/16/2023	COOK, JENNIFER	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/17/2023	COOK, JENNIFER	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	3.00	7.02		PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	2.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING ENGINEERING
1208707 1208707	11/9/2023		COOK, JENNIFER COOK, JENNIFER	2.00		ASSIGNED ASSIGNED	PC/Computer Cell Phone	PRJ-13308 PRJ-13308	ENGINEERING
1208707	11/9/2023 11/9/2023		COOK, JENNIFER	4.00 4.00			PC/Computer	PRJ-13308 PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	3.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	3.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	1.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	4.50		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	4.50			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/3/2023	COOK, JENNIFER	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	2.00		ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	2.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	2.00			PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023		COOK, JENNIFER	3.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/7/2023	COOK, JENNIFER	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1001010	4.4.4.10000	40/00/0000	COOK, JENNIFER Total	4.50	86.31	ACCIONED	T 11 ("D 1	DD 1 40000	DOW
1094816	11/1/2023		PARROTT, JEFFREY	1.50		ASSIGNED ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816 1094816	11/1/2023 11/1/2023		PARROTT, JEFFREY PARROTT, JEFFREY	1.50 1.50			Cell Phone PC/Computer	PRJ-13308 PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00		ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/1/2023		PARROTT, JEFFREY	1.00			PC/Computer	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	2.00		ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023	11/13/2023	PARROTT, JEFFREY	2.00		ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	2.00			PC/Computer	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00		ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00		ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	3.00		ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023		PARROTT, JEFFREY	3.00			Cell Phone	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00		ASSIGNED	PC/Computer	PRJ-13308	ROW
			PARROTT, JEFFREY Tota		31.40				
1131284	10/25/2023		PUSCAS, JACK J	2.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	2.00			PC/Computer	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	1.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	1.00			PC/Computer	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	2.00		ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023		PUSCAS, JACK J	2.00			PC/Computer	PRJ-13308	ENGINEERING
1131284 1131284	11/8/2023 11/8/2023		PUSCAS, JACK J PUSCAS, JACK J	2.00 2.00			Cell Phone PC/Computer	PRJ-13308 PRJ-13308	ENGINEERING
1131284	11/8/2023		PUSCAS, JACK J	2.00		ASSIGNED	Cell Phone	PRJ-13308 PRJ-13308	ENGINEERING ENGINEERING
1131284	11/8/2023		PUSCAS, JACK J	2.00		ASSIGNED	PC/Computer	PRJ-13308 PRJ-13308	ENGINEERING
1131204	1 1/0/2023	10/31/2023	PUSCAS, JACK J Total	2.00	24.66	AGGIGINED	i o/compater	1 1/0-10000	LINGHNEERING
			Grand Total		142.37			1	
			Oraniu iolai		142.37	<u> </u>			



December 7, 2023

Project Invoice # 57 (ASI Inv. 8561)

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: 10/29/23-11/25/23

Invoice Period:	10/29/23-11/25/23		
			Total This
Task No.	Task Description		Invoice
1	Transition & Basis of Design		
	Total:	\$	-
	Subconsultants:		
	FK Engineering:	\$	-
	ASI Markup 5%:	\$	-
	Total:	\$	-
	Previous Amount Invoiced:		
	Total Invoiced To-Date		
	Contract Task Total:		
	Amount Remaining:		
			Total This
Task No.	Task Description		Invoice
2	Design Services for Pump & Electrical Upgrades	Φ	
	Total:	\$	-
	Subconsultants:	Φ	
	Metco Services	\$	-
	FK Engineering: NTH Consultants	\$ \$	-
	AEW	\$	-
	ASI Markup 5%:	\$	-
	Total Due This Invoice:	\$	
	Total Due This invoice.	Ð	Total This
Task No.	Task Description		Invoice
3	Additional Special Services		
ŭ	Total:	\$	-
	Subconsultants:	•	
	NTH Consultants		
	FK Engineering:	\$	-
	ASI Markup 5%:	\$	-
	Total Due This Invoice:	\$	-
			Total This
Task No.	Task Description		Invoice
5	Construction Services		
	Total:	\$	20,199.00
	Subconsultants:	_	
	NTH Consultants	\$	23,010.07
	Metco Services	\$	6,900.00
	FK Engineering:	\$	4,417.75
	ASI Markup 5%:	\$	1,716.39
	Direct Expenses:	\$	3,675.00
	Total Due This Invoice:	\$	59,918.21
	Previous Amount Invoiced:		T-1-1-T-1-
			Total This
Task No.	Task Description		Invoice
6	Control Structure Rehab Total:	\$	7 490 00
	Subconsultants:	Φ	7,489.00
	NTH Consultants	\$	546.54
	ASI Markup 5%:	\$	27.33
	Direct Expenses:	\$	-
	Total Due This Invoice:	\$	8,062.87
	Total Due Tills lilvoice.	Ψ	0,002.07
Summary			
Juninary	Total Due This Invoice-All Tasks:	\$	67,981.08
	Previous Amount Invoiced:	\$	4,884,275.72
	Amount Invoiced for MCC Incident (separate invoice):	\$	1,431.37
	, ,	_	
	Amount Invoiced for Pump Issues (separate invoice):	\$	6,513.00
	Total Invoiced To-Date	\$	4,960,201.17
	Original Contract Task Total:	\$	4,198,380.00
	Additional Budget-Task 5:	\$	284,076.60
			1 512 201 00
	Additional Budget-Task 5a:	\$	1,513,301.00
	Additional Budget-Task 6:	\$	220,326.00

li#4133 v#352

84917-149015-730639-1-3309engcon

82912-149667-730639-PRJ-17060 engcon



Invoice: 1371149

Date: 11/07/2023

Client: 30164 Matter: 463149

Waterford, MI 48328-1907

Attn: Megan Koss, Esq.

One Public Works Drive

Oakland County Water Resources Commissioner, MI

WRCLegalInvoices@oakgov.com 6010101-84917-149015-731073-1-3309- LEGAL - Ch. 21

5113-v#2788

Matter Name: Construction Dispute - Walsh Construction KC 2023-11-29

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH OCTOBER 31, 2023

Total Fees: \$ 3,595.50 **Total Due This Invoice:** \$ **3,595.50**



Invoice: 1380412

Date: 12/05/2023

Client: 30164 Matter: 463149

Waterford, MI 48328-1907

Attn: Megan Koss, Esq.

One Public Works Drive

WRCLegalInvoices@oakgov.com 6010101-84917-149015-731073-1-3309- LEGAL - Ch. 21

5113-v#2788

Matter Name: Construction Dispute - Walsh Construction

Oakland County Water Resources Commissioner, MI

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH NOVEMBER 30, 2023

Total Fees: \$ 1,224.00 **Total Due This Invoice:** \$ **1,224.00**



Invoice: 1380507

Oakland-Macomb Interceptor Drain Drainage District Date: 12/05/2023

Attn: Megan Koss, Esq. Client: 58434
1 Public Works Drive Matter: 475622

Waterford, MI 48328

WRClegalinvoices@oakgov.com 84912-6010101-149015-731073-LEGAL- CH. 21

-5113- v # 2788

Matter Name: Chapter 21 Petition Improvement

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH NOVEMBER 30, 2023

Total Fees: \$ 162.00

Total Due This Invoice: \$ 162.00



Jacobs Consultants, Inc.

Invoice No.: C6A19900-11
Invoice Date: 11/3/2023
Jacobs Project No.: C6A19900
Services From: 6/16/2023
Services Through: 6/30/2023

Oakland-Macomb Interceptor Drain Drainage District c/o Oakland County Water Resources Commissioner's Office One Public Works Drive Bldg. 95 West Waterford, Michigan 48328

82912 - 149667- 730639 -1-17059- ENGCONSULT

Attn: Mr. Joel Brown, P.E.

Project Description: OMID Odor and Corrosion Control Facilities

,	I Control and Corresion Control rac	1								
Task Number	Task Description	В	Budget Total	Previously Invoiced	Cui	rrent Invoice	Pr	oject to Date	Rem	naining Budget
Task 1	Additional Investigation/Modeling	\$	226,151.90	\$ 226,489.81	\$	-	\$	226,489.81	\$	(337.91)
Task 2	Basis of Design	\$	122,605.02	\$ 122,303.64			\$	122,303.64	\$	301.38
Task 3	ST-S-3 Vapor-Phase Treatment System - Subtask 3.1 - Design	\$	276,371.04	\$ 236,028.39	\$	35,982.49	\$	272,010.88	\$	4,360.16
IdSK 5	ST-S-3 Vapor-Phase Treatment System - Subtask 3.2 - Bidding	\$	17,154.74	\$ -	\$	-	\$	-	\$	17,154.74
Task 4	CS-6 Pump Station Vapor-Phase System - Subtask 4.1 - Design	\$	191,218.29	\$ 96,755.18	\$	-	\$	96,755.18	\$	94,463.11
1038 4	CS-6 Pump Station - Vapor-Phase System Subtask 4.2 - Bidding	\$	15,612.91	\$ -	\$	-	\$	-	\$	15,612.91
Task 5	CS-8 and ST-S-1 Local Odor Control - Subtask 5.1 - Design	\$	80,199.91	\$ 77,293.65	\$	1,914.32	\$	79,207.97	\$	991.94
Task 5	CS-8 and ST-S-1 Local Odor Control - Subtask 5.2 - Bidding	\$	12,829.09	\$ -	\$	-	\$	-	\$	12,829.09
Task 6	Design Emergency Relief Valves for CS-9 High Pressures	\$	21,081.00	\$ 16,817.14	\$	4,254.47	\$	21,071.61	\$	9.39
	Total	\$	963,223.90	\$ 775,687.81	\$	42,151.29	\$	817,839.10	\$	145,384.80

Previously Invoiced \$775,687.81

Total This Invoice: \$42,151.29

Total Invoiced To Date: \$817,839.10

Budget Amount: \$963,223.90

Remaining Amount USD: \$145,384.80

Outstanding Invoices									
Date I	Invoice No.	Invoiced Amount	Paid Date	Paid Amount	Amount Outstanding				

Signed

Jason Matteo Project Manager

Please remit payment electronically to:

Beneficiary Bank: Bank of America Account Name: Jacobs Consultants, Inc. Transit for ACH: 111000012 Transit for Wires: 026009593 Account No (USD): 4451457732



	INVOICE	
DATE	NUMBER	PAGE
1/2/2023	639206	1 of 1

\$1,648.50

\$1,648.50

NORTH EAST PUMPING STATION

11001 E. STATE FAIR AVE

DETROIT, MI 48234

T 0

в ОМI100

I OAKLAND MACOMB INTERCEPTOR DRA

1 PUBLIC WORKS DR.

SUBMIT INVOICES TO NEXGEN

T WATERFORD, MI 48328

0

82912-6010101-149090-730660-5825-

ch,21-v#239 exp, 6/30/25

ATTENTION: TERRY MOORE

313-8297207

TMOORE@METCOSERVICES.COM

I CIVI	KI PIOOK	_	313 0237207	THOOKE WHE TOOSEK VICES, CO	21.1					
CUST	OMER RE	F/PO #	JOB #	JOB TITLE	SLP	SHIPPING T	YPE	TERMS		
	01010		0121521	GREAT LAKES WATER AUTHORITY, NEPS PUMP #2, FIELD SERVICE, SANITARY	SAH/KTT	FIELD SERVI	LD SERVICE		NET 60	
QUA B/O	NTITY Ship	DESCRIP	TION				UNIT P	RICE	EXTENDED	

0.00 1.00 GLWA, NORTHEAST PUMP STATION

KENNEDY INDUSTRIES PROVIDED (2) FIELD SERVICE TECHNICIAN(S) ONSITE ON

8/17/2023.

PLEASE SEE THE ATTACHED SERVICE REPORT.

TOTAL REFLECTS THE BELOW:

(10.5) HOURS OF LABOR MILEAGE: \$66.00 FUEL SURCHARGE: \$49.50

-m-11-13-23

PLEASE REMIT TO: KENNEDY INDUSTRIES, INC. P.O. BOX 930079 WIXOM, MI 48393

This invoice is subject to and incorporates by reference Kennedy Industries. Inc. s. ("Kennedy") Terms & Conditions. (Revid 5/2023) and Customer Warranty available at the vivilenced with which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

*TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE SUBTOTAL:

\$1,648.50

TAX:

50.00

TOTAL:

\$1,648.50

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011



729 Meldrum, Detroit, MI 48207 Phone; (313) 568-1600 Fax: (313) 568-0488

Email: info@lardnerelevator.com www.lardnerelevator.com

INVOICE

82912-6010101-149090-730660-XXXX - CH. 21

Invoice # 199339

بالبالبالسالساليالية

Account:

Northeast Pump Station

Bill To:

Oakland Macomb Interceptor Drain Drainage District

11001 E. State Fair

1 Public Works Drive

Detroit, MI 48205

dbgreen@metcoservices.com

tmoore@metcoservices.com

Account #:

00-6642-2

Waterford. MI 48328

Date	Nov 02,2023	Terms	Net 30 Days	Route	Detroit Route	Job#	4780
Inv#	199339	PO#		Territory	LECO	Туре	Repair

Quantity	Description	Taxable	Measure	Price	Amount
1.00	Quoted Price - F&I New Infra-Red - #275	No	Each	2,318.00	\$2,318.00
10/25/2023 Replaced Tri-Ti Quoted Job - # Material Labor Zone	\$1,119.00 968.00				
	231.00 \$2,318.00 M-11-26	0-23		Taxable	\$0.00
	\mathcal{M}^{-1}			Non-Taxable	\$2,318.00
				Sub-Total	\$2,318.00
				Sales Tax	\$0.00
				TOTAL	\$2,318.00

Page 1

Rev. 01/15/14

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT

Account #

Northeast Pump Station

Invoice #

Amount

199339

\$2,318,00

Pald

Lardner Elevator Company

729 Meldrum Detroit, MI 48207



729 Meldrum, Detroit, MI 48207 Phone: (313) 568-1600 Fax: (313) 568-0488

Email: info@lardnerelevator.com www.lardnerelevator.com

INVOICE

199361

82912	-6010101	_149090.	.730660.	XXXX -	CH 21
UZ3 1Z	-00 10 10 1	- 1 - 3 0 3 0 .	- / JUUUU.	- ^ ^ ^ -	OII. Z

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Bill To:

Account:

Northeast Pump Station

Oakland Macomb Interceptor Drain Drainage District

11001 E. State Fair Detroit, MI 48205

1 Public Works Drive

Account #:

00-6642-2

dbgreen@metcoservices.com tmoore@metcoservices.com

Waterford, MI 48328

Nov 03.2023 199361

Net 30 Days

Detroit Route

4825

LECO

Repair

	Description, State of the Control of				
1.00	Job # 4825 - Additional Insurance Coverage	No	Each	10,964.00	\$10,964.00
-	9			×	
			*		»:
*		al i		ž	
Job # 4825 - 0	Customer Request for Additional Insurance Coverage				
2 y	-11-13-23				c
	-11-13			To value	\$0.00 \$10,964.00
	~ / /				\$10,964.00
14.					\$0.00
	Page 1			hat a shared	\$10,964.00
	rage i				Rev 01/16/14

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT

 	 	-	State Heat	

Lardner Elevator Company

729 Meldrum Detroit, MI 48207 Account#

00-6642-2

Northeast Pump Station

Invoice #

199361

Amount

\$ 10,964.00

Paid



INVOICE NO. 1811-59 DATE: December 4, 2023

METCO PROJECT NO. 1811 INVOICE PERIOD: 10/30 thru 12/3/2023

Contract ID 00000000000000000005517

Vendor ID 0000020486

TO: OMIDD

Water Resources Commissioner One Public Works Drive Waterford, MI 48328 Attn: Joel Brown, P.E.

Chief Engineer-Construction Projects Unit

TITLE: OMID & NESPS Operation and Maintenance

Operational Plan

OMID Operations - Fund 82912, Program 149130, Account 730373 (3.1-3.4A & 3.4B)

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>R</u>	ate/Hr.	<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	0.0	\$	215.00	\$ -
Terry Moore	Operations Manager	36.0	\$	145.00	\$ 5,220.00
Terry Moore	Operations Manager (Overtime)	1.0	\$	195.00	\$ 195.00
Darrin Green	Staff Engineer	44.0	\$	90.00	\$ 3,960.00
Darrin Green	Staff Engineer-(Overtime)	2.0	\$	135.00	\$ 270.00
Anthony Vozza	Staff Engineer	81.0	\$	90.00	\$ 7,290.00
Anthony Vozza	Staff Engineer-(Overtime)	8.0	\$	135.00	\$ 1,080.00
Rosana Santos	Administrative Assoc.	0.0	\$	73.79	\$ -
		Subtotal OM	ID Op	eratons:	\$ 18,015.00

NEPS Operations - Fund 82912, Program 149090, Account 730373 (3.1-3.4A & 3.4B)

<u>Name</u>	<u>Title</u>	Hrs.	Rate/Hr.		<u>Amount</u>	
Raj Vijayendran, PE	Principal Engineer	8.0	\$	215.00	\$	1,720.00
Terry Moore	Operations Manager	36.0	\$	145.00	\$	5,220.00
Terry Moore	Operations Manager (Overtime)	14.0	\$	195.00	\$	2,730.00
Darrin Green	Staff Engineer	46.0	\$	90.00	\$	4,140.00
Darrin Green	Staff Engineer-(Overtime)	12.0	\$	135.00	\$	1,620.00
Anthony Vozza	Staff Engineer	0.0	\$	90.00	\$	-
Anthony Vozza	Staff Engineer-(Overtime)	12.0	\$	135.00	\$	1,620.00
Rosana Santos	Administrative Assoc.		\$	73.79	\$	
		Subtotal NE	PS Op	erations	\$	17,050.00

Subtotal Operations \$ 35,065.00

Maintenance & Asset Management

OMID Maintenance - Fund 82912, Program 149130, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

<u>Name</u>	<u>Title</u>	Hrs.	<u>R</u>	ate/Hr.	<u>Amount</u>
Terry Moore	Operations Manager	36.0	\$	145.00	\$ 5,220.00
Terry Moore	Operations Manager (Overtime)	2.0	\$	195.00	\$ 390.00
Anthony Vozza	Staff Engineer	0.0	\$	90.00	\$ -
Darrin Green	Staff Engineer	0.0	\$	90.00	\$ -
Darrin Green	Staff Engineer-(Overtime)	2.0	\$	135.00	\$ 270.00
		Subtotal OMID	Main	tenance:	\$ 5,880.00

NEPS Maintenance - Fund 82912, Program 149090, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

<u>Name</u>	<u>Title</u>	Hrs.	<u>R</u>	ate/Hr.	<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	8.0	\$	215.00	\$ 1,720.00
Terry Moore	Operations Manager	36.0	\$	145.00	\$ 5,220.00
Terry Moore	Operations Manager (Overtime)	7.0	\$	195.00	\$ 1,365.00
Daniel Martel	Sr. Project Coordinator	0.0	\$	145.00	\$ -
Sean Grant	Sr. Project Engineer	0.0	\$	145.00	\$ -
Travis Ford	Sr. Project Engineer	0.0	\$	145.00	\$ -
Shailesh Patel	Sr. Project Engineer	0.0	\$	145.00	\$ -

Darrin Green	Staff Engineer	30.0	Ś	90.00	Ś	2,700.00
Darrin Green	Staff Engineer-(Overtime)	5.0	\$	135.00	\$	675.00
Anthony Vozza	Staff Engineer	81.0	\$	90.00	\$	7,290.00
Anthony Vozza	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Abhishek Shah	Staff Engineer	20.0	\$	90.00	\$	1,800.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
			9	Subtotal:	\$	20,770.00
	Maintananca C	omicos Ison atta	had i	avaicac).	ċ	0 422 24

Maintenance Services (see attached invoices): \$ 8,422.34
Subtotal NEPS Maintenance: \$ 29,192.34

Subtotal Maintenance: \$ 35,072.34

NEXGEN Asset Management Implementation Services – Fund 82912, Program 149090, Account 730646

Name	Title	Hrs.	R	ate/Hr.	Amount
Raj Vijayendran, PE	Principal Engineer	0.0	\$	215.00	\$
Terry Moore	Operations Manager	0.0	\$	145.00	\$ -
Terry Moore	Operations Manager (Overtime)	0.0	\$	195.00	\$ -
Sean Grant	Sr. Project Engineer	14.0	\$	145.00	\$ 2,030.00
Darrin Green	Staff Engineer	0.0	\$	90.00	\$ -
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$ -
Anthony Vozza	Staff Engineer	0.0	\$	90.00	\$ -
Abhishek Shah	Staff Engineer	70.0	\$	90.00	\$ 6,300.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$ -
		Subtotal	Subtotal Maintenance:		\$ 8,330.00
Task 12.0 - As-Needed Ser	vices - VFD Pump 4				
Raj Vijayendran, PE	Principal Engineer	4.0	\$	215.00	\$ 860.00
Daniel Martel	Sr. Project Coordinator	0.0	\$	145.00	\$ -
Brandon Brochue	Designer/Drafter	16.0	\$	85.00	\$ 1,360.00
			Subto	tal 12.0:	\$ 2,220.00

Task 12.0 - As-Needed Services - Pump Performance

<u>Name</u>	<u>Title</u>	Hrs.	<u>R</u>	ate/Hr.	<u>Amount</u>
Terry Moore	Operations Manager	8.0	\$	145.00	\$ 1,160.00
Terry Moore	Operations Manager (Overtime)	0.0	\$	195.00	\$ -
Anthony Vozza	Staff Engineer	4.0	\$	90.00	\$ 360.00
Darrin Green	Staff Engineer	0.0	\$	90.00	\$ -
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$ -
			Subto	tal 12.0:	\$ 1,520.00

TOTAL AMOUNT DUE THIS INVOICE: \$ 82,207.34



9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number

Job	Sub	Contract	Date	Applic	ation
Number	Job	Number	Performed	Date	Number
924567	0	001	11/29/2023	11/29/2023	95463

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA		\$180.00		\$180.00	\$180.00		
		Totals:	\$180.00		\$180.00	\$180.00		
		Less Retained: Invoice Total:			\$180.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

WORK PERFORMED 10/31/2023

complete electrical construction



AUTOMATION AND CONTROLS SOLUTIONS
9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

DMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number

Sub Job Contract Date **Application** Number Job Number Performed Date Number 924567 11/29/2023 0 001 10/25/2023 95464

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA		\$90.00	1.0	\$90.00	\$90.00		è
		Totals:	\$90.00		\$90.00	\$90.00		
		Less Retained: Invoice Total:			\$90.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 10/25/2023

1m-12-5-23

complete electrical construction



9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number

Job	Sub	Contract	Date	Applic	ation
Number	Job	Number	Performed	Date	Number
924567	0	001	11/6/2023	11/29/2023	95465

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA		\$126.00	⊙ γ;	\$126.00	\$126.00	*	¥
		Totals:	\$126.00		\$126.00	\$126.00		
		Less Retained: Invoice Total:			\$126.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 11/6/2023

m-12-5-23

complete electrical construction



MOTOR CITY ELECTRIC TECHNOLOGIES INC. AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number

Job	ob Sub Contract Date		Application		
Number	Job	Number	Performed	Date	Number
924567	0	001	11/29/2023	11/29/2023	95466

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balanc e To Finish	Current Retainage
001	T&M SERVICES SCADA		\$675.00		\$675.00	\$675.00	×	*
		Totals:	\$675.00		\$675.00	\$675.00		
		Less Retained: Invoice Total:			\$675.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

WORK PERFORMED

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

complete electrical construction



AUTOMATION AND CONTROLS SOLUTIONS
9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

DIMC

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number

Job	Sub	Contract	Date	Applic	ation
Number	Job	Number	Performed	Date	Number
924567	0	001	11/9/2023	11/29/2023	95467

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA		\$135.00	9	\$135.00	\$135.00	Ě	
		Totals:	\$135.00		\$135.00	\$135.00		
		Less Retained: Invoice Total:			\$135.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 11/9/2023

TM-12-5-23

complete electrical construction



9440 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 921-5300 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

Number

95468

OMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number
 Job
 Sub
 Contract
 Date
 Application

 Number
 Job
 Number
 Performed
 Date
 Number

 924567
 0
 001
 11/29/2023
 11/29/2023

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA		\$360.00	*	\$360.00	\$360.00	*	
		Totals:	\$360.00		\$360.00	\$360.00		
		Less Retained: Invoice Total:			\$360.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

WORK PERFORMED 10/31/23 & 11/6/23

M-12-6-23

complete electrical construction



9440 GRINNELL DETROIT, MI 48213-1151 PHONE (313) 921-5300 FAX (313) 921-5310 "AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

Number

95470

OMID

ONE PUBLIC WORKS DRIVE, BUILDING 95

WATERFORD, MI 48328-

Customer PO Number 5469

Date Sub Application Job Contract Number Job Number Performed Date 923567 0 001 9/25/2023 11/29/2023

JOEL BROWN

Item No	Description of Work		Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&MNESP SCADA		\$427.50	*	\$427.50	\$427.50	321	*
		Totals:	\$427.50		\$427.50	\$427.50		
		Less Retained: Invoice Total:			\$427.50			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 9/25/2023

complete electrical construction



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

Attention Joel Brown, P.E.

Invoice Group: Invoice Date : 11/29/2023

Invoice #: 634509

Project: 61210495

10/21/2023 - 11/17/2023 For Professional Services Rendered from

Authorization per Engineering Work Order D 439 date 12/03/2021 82912-149662-730639-Cont#1-2603 Exp (12/31/21-Rev) 82912- 6010101- 149662-730639- 2603 - Ch.21 - v# 4716 - li #24138 - exp. 12/31/23

Additional OMID NESPS Maintenance Engineering Services

Task 01	NESPS Health and Safety Audit	\$8,651.75
Task 02	Control Structure 6 (CS-6) Emergency Bypass System Design	\$72,250.46
Task 03	Wet Wall Screen Cleaning Equipment	\$7,366.85
Task 04	Control Structure Gate Inspection	\$9,747.94

Preliminary Budget Amount \$98,017.00 Percent Complete: 98.69%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	30.80	\$ 21,058.09
Overhead %	188.00	57.90	39,589.21
Total Regular Labor Expense		88.70	60,647.30
Total Direct Labor		88.70	60,647.30
Profit / Fixed Fee %	12.00	10.64	7,277.67
Direct Expenses Charge		0.00	523.60
Expense Multiplier %	5.00	0.00	26.19
Direct Subcontractor Charge		1,471.60	26,662.90
Subcontractor/Subconsultant Multiplier %	6.00	88.30	1,599.78
Total Other Direct Charges Reimbursables		1,559.90	28,812.47
Total Costs:	_	1,659.24	96,737.44
Total Due This Invoice	<u>\$</u>	1,659.24	\$ 96,737.44



82912-149662-731458-2603-Ch.21v#4716 exp 12/31/23 li # 24138

OMI Drain Drainage District One Public Works Drive Building 95 West Waterford, MI 48328 Invoice # : 634510 Project : 61-210313

Invoice Group : **

Invoice Date : 11/29/2023

Attention: Joel Brown, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Consulting Services Regarding Additional OMID Rehabilitation Program 2021 Closeout Services and As-Needed NESPS Maintenance Tasks

Task 01	Contract 3 NESPS Rehab Closeout	\$9,563.00
Task 02	PCI-4 Liner Deterioration Closeout	\$10,939.00
Task 03	Discharge Pipe Coating Rehabilitation	\$27,930.00
Task 04	NESPS Wet Well Sediment Survey	\$19,639.00
	Preliminary Budget Amount	\$68,071.00
	Percent Complete:	83.43%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	9.00	\$ 9,887.11
Overhead %	188.00	16.92	18,587.75
Total Regular Labor Expense		25.92	28,474.86
Total Direct Labor		25.92	28,474.86
Profit / Fixed Fee %	12.00	3.11	3,416.98
Direct Expenses Charge		0.00	160.52
Expense Multiplier %	5.00	0.00	8.02
Direct Subcontractor Charge		713.40	23,555.34
Subcontractor/Subconsultant Multiplier %	5.00	35.67	1,177.79
Total Other Direct Charges Reimbursables		749.07	24,901.67
Total Costs:		778.10	56,793.51
Total Due This Invoice	<u>\$</u>	778.10	\$ 56,793.51



84917-6010101-149015-731458-2603-1-3309-ch . 21-engcon v#4716-li#24138-exp 12/31/23

OMI Drain Drainage District One Public Works Drive Building 95 West Waterford, MI 48328 Invoice #: 634511
Project: 61-200280
Invoice Group: CMT
Invoice Date: 11/29/2023

Attention Joel Brown, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Provide Engineering and Consulting Services regarding NESPS Pumping and Electrical System Upgrade (D-421) & (D-462)

Task 01 CMT Services \$189,674.00
Task 02 Tnemec Coating Observation -

Preliminary Budget Amount \$189,674.00
Percent Complete: 85.87%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	1,148.25	\$ 41,396.21
Overhead %	188.00	2,158.71	77,824.86
Total Regular Labor Expense		3,306.96	119,221.07
Total Direct Labor		3,306.96	119,221.07
Profit / Fixed Fee %	12.00	396.84	14,306.53
Direct Expenses Charge		436.19	22,600.43
Expense Multiplier %	5.00	21.81	1,130.02
Direct Subcontractor Charge		0.00	5,302.50
Subcontractor/Subconsultant Multiplier %	6.00	0.00	318.15
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		458.00	29,351.10
Total Costs:		4,161.80	162,878.70
Total Due This Invoice	\$	4,161.80	\$ 162,878.70



84918-149015-730639-PRJ-17408-1-ENG_CONSULT- WDCON8173

Invoice #: 634512

Invoice Date : 11/29/2023

Project: 23001693

OMI Drain Drainage District One Public Works Drive **Building 95 West** Invoice Group: ** Waterford, MI 48328

Attention Jen Cook, P.E.

For Professional Services Rendered from

10/21/2023 - 11/17/2023

Provide Engineering and Consulting Services regarding OMID PCI-18 and PCI-19 Rehabilitation Project CCA; D-458 & D-463

Contract 2 CCA Services \$1,907,063.00 **Preliminary Budget Amount** \$1,907,063.00 Percent Complete: 10.64%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	12,904.95	\$ 39,803.48
Overhead %	188.00	24,261.31	74,830.55
Total Regular Labor Expense		37,166.26	114,634.03
Total Direct Labor		37,166.26	114,634.03
Profit / Fixed Fee %	12.00	4,459.95	13,756.08
Direct Expenses Charge		705.45	24,244.65
Expense Multiplier %	5.00	35.27	1,212.22
Direct Subcontractor Charge		23,751.52	46,204.44
Subcontractor/Subconsultant Multiplier %	6.00	1,425.09	2,772.28
Total Other Direct Charges Reimbursables		25,917.33	74,433.59
Total Costs:		67,543.54	202,823.70
Total Due This Invoice	<u>\$</u>	67,543.54	\$ 202,823.70



84917-6010101-149015-731444-2603-1-3308-Ch. 21-v#4716-li#24138-exp 12/31/23

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

Invoice Group : **
Invoice Date : 11/29/2023

Invoice #: 634513

Project: 61-200186

Attention Joel Brown, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Provide Engineering Services for OMID NI-EA Contract No.1 PCI-4 Rehabilitation Project and CS-9 Gate Installation Project D-425 and D-457

 Task 01
 NI-EA OMID Contract No. 1 CCA
 \$2,759,494.00

 Task 02
 OMID CS-9 Gate CCA
 \$217,468.00

 Preliminary Budget Amount
 \$2,976,962.00

 Percent Complete:
 97.26%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	17,551.50	\$ 679,455.10
Overhead %	188.00	32,996.82	1,277,375.61
Total Regular Labor Expense		50,548.32	1,956,830.71
Total Direct Labor		50,548.32	1,956,830.71
Profit / Fixed Fee %	12.00	6,065.80	234,819.69
Direct Expenses Charge		2,160.48	61,451.93
Expense Multiplier %	5.00	108.02	3,072.60
Direct Subcontractor Charge		1,150.68	603,078.04
Subcontractor/Subconsultant Multiplier %	6.00	69.04	36,184.77
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		3,488.22	703,787.33
Total Costs:		60,102.34	2,895,437.73
Total Due This Invoice	\$	60,102.34	\$ 2,895,437.73



PM Technologies 28294 Beck Road, Wixom. Michigan 48393 United States (248) 374-6405

BILL TO

County Of Oakland A Michigan Constitional Corp Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

INVOICE 84825412

INVOICE DATE Nov 13, 2023

JOB ADDRESS

Northeast Sewage Pumping Station 1825kw - Generator 3 11001 East State Fair Avenue Detroit, MI 48234 USA

TECHNOLOGIES

Completed Date: 11/13/2023

Payment Term: NET 30 Due Date: 12/13/2023

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection	1.00	\$350.00	\$350.00
	Perform Secondary Inspection on generator and transfer switch(es).			
	Update on-site maintenance log (as applicable)			
	**excludes live transfer test			

M-11-20.23 **SUB-TOTAL** \$350.00 **TOTAL DUE** \$350.00 **BALANCE DUE** \$350.00

Thank you for choosing PM Technologies



PM Technologies 28294 Beck Road, Wixom, Michigan 48393 United States (248) 374-6405

BILL TO

County Of Oakland A Michigan Constitional Corp Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

INVOICE 84827602 INVOICE DATE Nov 13, 2023

JOB ADDRESS

Northeast Sewage Pumping Station - 1825kw Generator 2 11001 East State Fair Avenue Detroit, MI 48234 USA

TECHNOLOGIES

Completed Date: 11/13/2023 Payment Term: NET 30 Due Date: 12/13/2023

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection	1.00	\$350.00	\$350.00
	Perform Secondary Inspection on generator and transfer switch(es).			
	Update on-site maintenance log (as applicable)			
	**excludes live transfer test			

SUB-TOTAL \$350.00

TOTAL DUE \$350.00

BALANCE DUE \$350.00

Thank you for choosing PM Technologies



PM Technologies 28294 Beck Road, Wixom, Michigan 48393 United States (248) 374-6405

BILL TO

County Of Oakland A Michigan Constitional Corp Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

INVOICE 84828599 INVOICE DATE Nov 13, 2023

JOB ADDRESS

Northeast Sewage Pumping Station - Generator 1 11001 East State Fair Avenue Detroit, MI 48234 USA Completed Date: 11/13/2023
Payment Term: NET 30

BALANCE DUE

\$350.00

Due Date: 12/13/2023

DESCRIPTION OF WORK

INSPECTED FUEL LEVEL MONITOR. AUDIBLE ALARM NOT SOUNDING DURING TEST. JUMPED 9VDC TO SPEAKER ALARM. ALARM SOUNDS. RECONNECTED AND TESTED. AUDIBLE ALARM OPERATIONAL. AUDIBLE ALARM INTERMITTENT ISSUE.

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection	1.00	\$350.00	\$350.00
	Perform Secondary Inspection on generator and transfer switch(es).			
	Update on-site maintenance log (as applicable)			
	**excludes live transfer test			
	TM-11-20-23			
	11-20	SUB-TOTAL		\$350.00
	TM	TOTAL DUE		\$350.00

Thank you for choosing PM Technologies





Oakland County Water Resourses Commissioner

November 15, 2023

Attn: Sid Lockhard, P.E.

Invoice No: 03559.01 - 41

One Public Works Drive Building 95-West

Waterford 48328

84917-6010101-149015-731458-6096-1-3308-Ch. 21-

engcon- v#16918- exp 5/29/23

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

Professional Services from October 1, 2023 to October 31, 2023

Task	1.0	Oakland-Mad	comb Interceptor Dr	ainage 20	20		
Professional Pers	sonnel						
			Hou	ırs	Rate	Amount	
Zann, John			74.	00 1	10.00	8,140.00	
	Totals		74.	00		8,140.00	
	Total Lab	or					8,140.00
Additional Fees							
Overhead			149.10 % of 8,1	140.00		12,136.74	
Profit			10.00 % of 20,276.74			2,027.67	
Total		ditional Fees				14,164.41	14,164.41
					Total this Task		\$22,304.41
Billing Limits			Current		Prior	To-Date	
Total Billings			22,304.41	511,4	123.23	533,727.64	
Limit						880,000.00	

Remaining 346,272.36

Total this Invoice \$23,304.4

Total this Invoice \$22,304.41

Please remit payment to PMA CONSULTANTS LLC, PO BOX 675234, DETROIT, MI 48267-5234. Please direct any questions regarding this invoice to Samantha Zeisler, Project Administrator, at 734-418-7897 or szeisler@pmaconsultants.com





Oakland County Water Resourses Commissioner

December 8, 2023

Attn: Joel Brown Invoice No: 03559.01 - 42

One Public Works Drive

Building 95-West Waterford 48328

84917-6010101-149015-731458-6096-1-3308-Ch. 21-

engcon- v#16918- exp 5/29/23

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

Professional Services from November 1, 2023 to November 30, 2023

Task 1.0 Oakland-Macomb Interceptor Drainage 2020

Professional Personnel

 Zann, John
 Hours
 Rate
 Amount

 70.00
 110.00
 7,700.00

 Totals
 70.00
 7,700.00

Total Labor 7,700.00

Additional Fees

 Overhead
 149.10 % of 7,700.00
 11,480.70

 Profit
 10.00 % of 19,180.70
 1,918.07

Total Additional Fees 13,398.77 13,398.77

Total this Task \$21,098.77

 Billing Limits
 Current
 Prior
 To-Date

 Total Billings
 21,098.77
 533,727.64
 554,826.41

 Limit
 880,000.00

 Remaining
 325,173.59

Total this Invoice \$21,098.77

Please remit payment to PMA CONSULTANTS LLC, PO BOX 675234, DETROIT, MI 48267-5234. Please direct any questions regarding this invoice to Samantha Zeisler, Project Administrator, at 734-418-7897 or szeisler@pmaconsultants.com

Oakland-Macomb Interceptor Drain Drainage District

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 13

Other Business

Oakland-Macomb Interceptor Drain Drainage District

Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 14

Adjourn