

ELECTRONIC PACKET

JUNE 10, 2019 OPERATIONS COMMITTEE MEETING

RELEASED: Monday, June 3, 2019



Milwaukee Metropolitan Sewerage District

260 West Seeboth
Street
Milwaukee, WI
53204

Meeting Agenda Operations Committee

Kathy Ehley, Chair
John Swan, III, Vice Chair
Dan Devine, Cavalier C. Johnson, LaTonya Johnson
Kris Martinsek, Ex-Officio

Monday, June 10, 2019

9:00 AM

Dennis M. Grzezinski Conference Room

NOTICE IS HEREBY GIVEN, pursuant to Section 19.84, Wisconsin Statutes, that the Milwaukee Metropolitan Sewerage District's Operations Committee will hold its regularly scheduled public meeting on Monday, June 10, 2019 at 9:00 a.m. at the District's Headquarters, 260 W. Seeboth Street, Milwaukee, Wisconsin, in the Dennis M. Grzezinski Conference Room.

PURSUANT TO SECTION 19.85(1)(g), Wisconsin Statutes, the Committee reserves the right to go into Closed Session on any item on the public portion of the agenda to confer with Legal Counsel when it appears the matter may involve the District in litigation. If the Committee does convene in such a Closed Session, it is contemplated that the Committee will again, before adjourning the meeting, reconvene at the same place in Open Session at which time the Committee may act upon any item(s) considered in the Closed Session and upon any unfinished items from the regular agenda.

CALL TO ORDER

RECORD ROLL

Approval of Proceedings of Regular Committee Meeting held May 6, 2019

ORGANIZATION & ADMINISTRATION

19-001-1 EXECUTIVE DIRECTOR'S REPORT

- A. Monthly Reports
- B. Green Luminaries (Bre Plier)

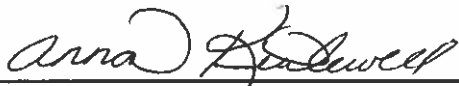
NEW BUSINESS

- 1 **19-071-6** Award of Contract C98047C03, Access Hatch Replacement Phase III
- 2 **19-072-6** Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 - Pulaski Park, Restore the Executive Director's Original Delegated Authority, and Approve Change in Total Project Cost

- 3 19-073-6 Award of Contract J06075C03, Service Water Pump Numbers 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility
- 4 19-074-6 Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility
- 5 19-075-6 Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director's Original Delegated Authority
- 6 19-076-6 Change Order Five, Contract W20028D01, Engineering Services - Western Milwaukee Flood Management Project - Phase 2B, and Restore the Executive Director's Original Delegated Authority
- 7 19-077-6 Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority
- 8 19-078-6 Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs
- 9 19-079-6 Change Order Number One to a Purchase Order for Ferric Chloride Use at the South Shore Water Reclamation Facility
- 10 19-080-6 Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan - Ultimate Build Out, and Approve Changes in Total Project Cost
- 11 19-081-6 Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original Delegated Authority, and Approve Changes in Total Contract Cost
- 12 19-082-6 Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

ADJOURNMENT

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Office of the Commission at 414.225.2264, (FAX) 414.277.6360 or write to Office of the Commission, 260 W. Seeboth Street, Milwaukee, Wisconsin, 53204-1446.



Anna Kettlewell, Commission Secretary
Milwaukee Metropolitan Sewerage District



Milwaukee Metropolitan Sewerage District

260 West
Seeboth Street
Milwaukee, WI
53204

Meeting Minutes Operations Committee

Kathy Ehley, Chair
John Swan, III, Vice Chair
Dan Devine, Cavalier C. Johnson, LaTonya Johnson
Kris Martinsek, Ex-Officio

Monday, May 6, 2019

9:00 AM

Dennis M. Grzezinski Conference Room

CALL TO ORDER

Committee Chair Commissioner Ehley called the meeting to order at 9:01 a.m.

RECORD ROLL

Present 6 - Dan Devine, Kathy Ehley, Cavalier C. Johnson, LaTonya Johnson, Kris Martinsek, and John Swan III

Commissioner L. Johnson arrived at 9:05 during Item #1.

Other Commissioners Present: Eugene Manzanet, Jeff Stone, and Corey Zetts.

Approval of Proceedings of Regular Committee Meeting held April 8, 2019

A motion was made by Commissioner Swan, seconded by Commissioner Devine. The motion carried.

NEW BUSINESS

- 1 19-053-5 Award of Contract J06075C04, Effluent Traveling Water Screens Replacement at Jones Island Water Reclamation Facility
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- Commissioner L. Johnson arrived at 9:05 a.m. during this matter.*
- A motion was made by Commissioner Devine, seconded by Commissioner C. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.

- 2 19-054-5 Award of Contract P01005C03, Pump Station Replacements - Interplant Sludge System Improvements, and Approve Change in Total Project Cost
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner L. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 3 19-055-5 Award of Contract S01009C01, Primary Scum Improvements at the South Shore Water Reclamation Facility, and Approve Change in Total Project Cost
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner Devine, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 4 19-056-5 Contract C05051D01, Engineering Services, Edgewood Avenue Near Surface Collector Extension
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Kevin L. Shafer, P.E., Executive Director.*
- A motion was made by Commissioner Swan, seconded by Commissioner C. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 5 19-057-5 Award of Contract S02008C04, Capacity Improvements - Secondary Treatment, South Shore Water Reclamation Facility
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner L. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 6 19-058-5 Change Order Five, Contract J04050C01, Jones Island Water Reclamation Facility Dryer Feed and Discharge Feed Screw Conveyor Replacement Project, Restore the Executive Director's Original Delegated Authority, and Approve Change in Total Project Cost
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner C. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**

- 7 19-059-5 Award of Contract J06061C01, Milorganite® Dryer Burner Upgrades at Jones Island Water Reclamation Facility, and Approve Change in Total Project Cost
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Bill Farmer, Senior Project Manager.*
- A motion was made by Commissioner Devine, seconded by Commissioner Swan, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 8 19-060-5 Contract I03008D01, Engineering Services, Combined Sewer Outfall 102 Rehabilitation - Humboldt Project
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner Devine, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 9 19-061-5 Award of Contract S02016C01, Aeration Basins No. 6 and No. 22 Repair at South Shore Water Reclamation Facility
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner C. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 10 19-062-5 Award of Contract J01026C01, Primary Clarifiers 2 and 8 Sludge Withdrawal Piping Replacement
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.*
- A motion was made by Commissioner Swan, seconded by Commissioner Devine, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 11 19-063-5 Approval of 2019 Green Infrastructure Partnership Program Projects G98004P24, G98004P29, G98004P30, G98004P35, and G98004P40
- The Committee received a PowerPoint presentation from Karen Sands, Director of Planning, Research, and Sustainability.*
- A motion was made by Commissioner Devine, seconded by Commissioner L. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**

- 12 19-064-5 Approval of Funding Agreement MI08 Under Project M10003, 2019 City of Milwaukee Private Property Infiltration and Inflow Reduction Project
- The Committee received a PowerPoint presentation from Karen Sands, Director of Planning, Research, and Sustainability.*
- Commissioner L. Johnson was out of the room for this item.*
- A motion was made by Commissioner C. Johnson, seconded by Commissioner Swan, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**
- 13 19-065-5 Change Order Two, Contract W50005D05, Demolition of Structures on 1436 E. Forest Hill Avenue Property, and Restore the Executive Director's Original Delegated Authority
- The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Mark Mittag, Senior Project Manager.*
- A motion was made by Commissioner Swan, seconded by Commissioner L. Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.**

ORGANIZATION & ADMINISTRATION

19-001-1 EXECUTIVE DIRECTOR'S REPORT

A. Monthly Reports

A. Kevin L. Shafer, P.E., Executive Director, reported on Small, Women, and Minority-owned Business Enterprise participation on contracts and staff's efforts on increasing participation.

ADJOURNMENT

It was moved by Commissioner Swan, seconded by Commissioner L. Johnson, to adjourn. The motion carried.

As there was no further business, the meeting was adjourned at 10:11 a.m.



Anna Kettlewell, Commission Secretary
Milwaukee Metropolitan Sewerage District

OPERATIONS COMMITTEE MEETING

June 10, 2019

EXECUTIVE DIRECTOR'S REPORT

19-001-01

- A. Monthly Reports**
- B. Green Luminaries (Bre Plier)**



COMMISSION FILE NO: 19-071-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Award of Contract C98047C03, Access Hatch Replacement Phase III

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract C98047C03, Access Hatch Replacement Phase III, to CornerStone One, LLC, in the amount of \$431,732. CornerStone One, LLC, was the lowest responsible, responsive bidder among three bids received.

Underground structures in the conveyance system were built with access hatches to allow human access. Many of these hatches, originally constructed of cast iron, are located in roadways and are subject to continuous vehicle traffic. Over time, the hatches and their supporting concrete structures deteriorate and ultimately could completely fail. A failed structure would be a safety hazard to pedestrian and vehicular traffic. The purpose of this project is to restore the structural integrity of several structures where there is significant deterioration.

This contract includes access hatch rehabilitation of six structure as follows:

Structure Name/ID	Location
Diversion Chamber 0101	South 27th Street and West Howard Avenue
Diversion Chamber 0403	North 59th Street and West State Street
Diversion Chamber 0504-2A	West Hampton Avenue, west of North 31st Street
Diversion Chamber 0604	Near 3013 South 35th Street
Diversion Structure 160	South 1st Street and West Lincoln Avenue
Near Surface Collector 12505	Near 3099 West Hopkins Street

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

*OP_Award_C98047C03_Access_Hatch_Replacement_Legislative_file.docx
05-17-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Award of Contract C98047C03, Access Hatch Replacement Phase III

Under this proposed contract, CornerStone One, LLC, will:

- Remove concrete from the top of the structure.
- Reconstruct the top of structure and install precast concrete covers in place of the existing cast iron covers.
- Restore pavement around the structure.

This structural restoration will reduce public safety risk related to a failed structure.

The contract duration is 10 months.

RESOLUTION

Award of Contract C98047C03, Access Hatch Replacement Phase III

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract C98047C03, Access Hatch Replacement Phase III, is awarded to CornerStone One, LLC, in the amount of \$431,732, and that the Executive Director is directed to execute a contract on behalf of the District.



**Capital Budget Fiscal Note
Total Project Cost**

RELATING TO:

Award of Contract C98047C03, Access Hatch Replacement Phase III

Capital Project Number(s)

C98047-Access Hatch Covers

Impact of Requested Action on Total Project Cost:

Increase

Decrease

New Project

No Change

Total Project Cost Analysis

Adopted 2018 Total Project Cost

Previously Approved Changes

Approved Total Project Cost

Requested Total Project Cost

Requested (Increase)/Decrease

Project Costs

\$1,801,804

\$0

\$1,801,804

n/a

\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change

_____ Transfer from Allowance for Cost and Schedule Changes

_____ Transfer from another project (specify in comments)

_____ Delay Project(s) (specify in comments)

_____ Delete Project(s) (specify in comments)

_____ Other _____

_____ Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:

Theresa Zwieg

Date:

5/15/2019

Award of Contract C98047C03, Access Hatch Replacement Phase III



Procurement & S/W/MBE Summary Information

Contract # C98047C03

Cost Center: ENG

Award of Contract C98047C03, Access Hatch Replacement Phase III

BID SUMMARY

Bid Opening Date: 4/17/2019

	Total	SWMBE	Local
# of Bids	3	2	2
# of Responsive Bids	3	2	2

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
CornerStone One, LLC Brookfield, WI 53045	\$431,732.00	Responsive	Responsible	48.0%	48.0%
Terra Engineering & Construction Corp Madison, WI 53718 (SBE)	\$466,870.00	Responsive	Responsible	Not provided	20.0%
Mid City Corporation Butler, WI 53007 (SBE)	\$520,000.00	Responsive	Responsible	Not provided	20.0%

SUBCONTRACTOR INFORMATION

Type	Subcontractor Name	Type of Work	%	Amount
MBE	Hard Rock Sawing & Drilling Elkhorn, WI 53121	Saw Cutting	4.5%	\$19,380.00
MBE	Benavides Construction, Inc. Waterford, WI 53185	Concrete	42.1%	\$181,672.00
SBE	Tremmel Anderson Trucking Sussex, WI 53089	Trucking	1.4%	\$6,100.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements
 Sanitary Sewer Service Area (SSSA)
 Employment: 45%
 Target Area (TA) Employment: 20%
 # Apprentices Required: 0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered firms in the Construction and Metal Fabrication categories, and sent targeted e-mails to 20 SWMBE and firms in those categories. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Mid City Corporation, Benavides Construction, Terra Engineering & Construction Corp.

If no or low S/W/MBE participation, explain why:

N/A

Additional Comments:

N/A

AWARDEE INFORMATION

Company: CornerStone One LLC
Contact Person: [Dennis Laney](#)
Phone Number: (262) 896-9006
E-mail Address: dennis.laney@cstoneone.com

EEO DATA

Local or National Office?	<u>Local</u>	Total # of Employees	<u>97</u>		
	<u>Total</u>	<u>%</u>	<u>Total</u>	<u>%</u>	
Minorities	<u>8</u>	<u>8.2%</u>	Females	<u>5</u>	<u>5.2%</u>
African American	<u>0</u>	<u>0.0%</u>	African American	<u>0</u>	<u>0.0%</u>
Asian	<u>0</u>	<u>0.0%</u>	Asian	<u>0</u>	<u>0.0%</u>
Hispanic	<u>8</u>	<u>8.2%</u>	Hispanic	<u>0</u>	<u>0.0%</u>
Native American	<u>0</u>	<u>0.0%</u>	Native American	<u>0</u>	<u>0.0%</u>
<i>Labor Market Availability - Minorities</i>		<u>20.0%</u>	<i>Labor Market Availability - Females</i>		<u>48.0%</u>



COMMISSION FILE NO: 19-072-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park, Restore the Executive Director’s Original Delegated Authority, and Approve Change in Total Project Cost

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order 11 to Contract W40002C01, Kinnickinnic (KK) River Reach 2 – Pulaski Park, with C.W. Purpero, Inc., (Purpero) in an amount not to exceed \$1,060,617.75, and to restore the Executive Director’s original delegated authority.

Further, the Commission is requested to increase the total project cost (TPC) for Project W40002, KK River Real Estate Deconstruction/Demolition and Pulaski Park, by \$1,341,531 for an amended TPC of \$34,282,686, and to make a corresponding change to the TPC for Project M99001, Allowance for Cost and Schedule Changes.

The Commission awarded Contract W40002C01 to Purpero on May 21, 2018. The scope includes removal of 1,600 feet of concrete-lined channel and reconstruct a naturalized KK River within Pulaski Park. The scope also includes replacing County-owned assets within Pulaski Park affected by construction (basketball court, playground, pedestrian bridges, etc.).

Since construction began on this contract in 2018, there have been multiple construction contract change orders executed under the Executive Director’s authority. This Commission request is for additional known contract change order items beyond the Executive Director’s authority for contract changes. These items are summarized below.

ATTACHMENTS: BACKGROUND KEY ISSUES RESOLUTION
FISCAL NOTE S/W/MBE OTHER _____

OP_Change_Order_11_W40002C01_Restore_Authority_Change_TPC_legislative_file.docx
05-23-19

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park, Restore the Executive Director's Original Delegated Authority, and Approve Change in Total Project Cost

A portion of the original scope of work under this contract includes grading work between the KK River and the outer wall of the County's pool building patio. During preconstruction inspection, staff observed significant cracks in the outer wall of the patio. These cracks jeopardize the structural strength and stability of the wall. District staff and its consulting engineer (Graef-USA) determined that the contractor could not perform the contracted grading work near the wall without further jeopardizing the integrity of the wall; therefore, proposed Change Order 11 includes implementing a modified grading plan along the east slope of the KK River and modifying the patio and patio walls located on the side of the County's Pulaski Pool building.

The contract requires the use of a floodplain stone/soil substrate to reconstruct the floodplain and channel banks. In the contract documents, Graef-USA estimated the quantity of the material to be 199 cubic yards. This estimate was incorrect, as over 5,000 cubic yards of material is required to construct the project. Change Order 10, under the Executive Director's authority, increased the quantity for this item by approximately 3,000 cubic yards. Proposed Change Order 11 requests to increase the item quantity by the remaining approximately 2,000 cubic yards needed to complete the project

The contract scope includes excavating and removing approximately 60,000 cubic yards of soil and sediment from the project site. During design, Graef-USA performed environmental sampling to identify soil contamination levels throughout the project area. The Wisconsin Department of Natural Resources places restrictions on where soil can be disposed, based on the levels of contamination. The contract includes different bid items based on the level of contamination and provides direction to the contractor on how they can dispose the soil based on those classifications.

In the original contract, Graef-USA estimated soil quantities for the various levels of soil contamination. The quantity of soil with low levels of contamination (low impacted) has increased, while the quantity of clean soil has decreased. In addition, construction staff discovered a small quantity of hazardous soil that must be disposed. The table below shows the adjusted soil quantities. The increased level of low impacted soil and presence of hazardous soil to be disposed results in an increased cost.

Soil Classification	Original Contract Quantity (Cubic Yards)	Revised Quantities (Cubic Yards)
Non-impacted	48,456	28,987
Low-impacted	11,073	30,543
Impacted	673	673
Hazardous	0	25
Total Quantity	60,202	60,228

SUMMARY (Cont'd)

Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park,
Restore the Executive Director's Original Delegated Authority, and Approve Change in
Total Project Cost

Staff requests authorization of Change Order 11, which includes the contract changes outlined above and summarized below:

- Remove a portion of the patio wall and patio and construct a new wrought iron fence closer to the pool building.
- Implement a revised grading plan between the KK River and pool patio.
- Increased quantity of floodplain stone/soil substrate placement.
- Modified quantities of non- and low-impacted soils.

The Commission has delegated to the Executive Director the authority to make changes to construction contracts up to \$400,000 or 10 percent of the original contract price, whichever is less. For this contract, a limit of \$400,000 prevails. As of the writing of this Commission document, the Executive Director had utilized \$280,912.76 of this authority, leaving a balance of \$119,087.24; however, additional contract changes were in process. The request to restore the Executive Director's authority is in case any additional construction changes beyond the remaining Executive Director's authority are necessary.

SUMMARY (Cont'd)

Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park,
Restore the Executive Director’s Original Delegated Authority, and Approve Change in
Total Project Cost

CONTRACT COST CHANGES

	AMOUNT	PERCENT INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$8,589,499.25		Request of Commission	20.0%
Change Order 1	\$64,353.00	0.75%	Executive Director	0%
Change Order 2	\$19,116.00	0.22%	Executive Director	0%
Change Order 3	\$2,850.00	0.03%	Executive Director	100%
Change Order 4	\$43,852.00	0.51%	Executive Director	0%
Change Order 5	\$14,189.00	0.17%	Executive Director	0%
Change Order 6	\$63,732.00	0.74%	Executive Director	95.2%
Change Order 7	\$5,590.00	0.07%	Executive Director	0%
Change Order 8	\$21,132.11	0.25%	Executive Director	64.1%
Change Order 9	\$12,450.00	0.14%	Executive Director	0%
Change Order 10	\$33,648.65	0.39%	Executive Director	54.2%
Change Order 11	\$1,060,617.75	12.35%	Request of Commission	15.0%
Total Change Orders	\$1,341,530.51	15.62%		20.0%
Total	\$9,931,029.76			20.0%

The request to increase the project’s TPC is due to the change orders increasing costs beyond that budgeted.

RESOLUTION

Change Order 11, Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park,
Restore the Executive Director's Original Delegated Authority, and
Approve Change in Total Project Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order 11 to Contract W40002C01, Kinnickinnic River Reach 2 – Pulaski Park, with C.W. Purpero, Inc., in an amount not to exceed \$1,060,617.75, and that the Executive Director's original delegated authority is restored.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the total project cost for Project W40002, Kinnickinnic River Real Estate Deconstruction/Demolition and Pulaski Park, is increased by \$1,341,531, for an amended total project cost of \$34,282,686, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.



COMMISSION FILE NO: 19-073-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Award of Contract J06075C03, Service Water Pump Numbers 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J06075C03, Service Water Pump Numbers 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility (JIWRF), to Crane Engineering Sales, Inc., in the amount of \$293,500. Crane Engineering Sales, Inc., was the only responsible, responsive bidder.

Service water is used for various plant operations, such as cleaning, equipment cooling, and fire protection. Service Water Pump Numbers 1, 5, and 6 are three of six pumps located in the Effluent Pump Station and are used to pump service water throughout the plant.

Service Water Pump Number 1 was installed in 1985, and Service Water Pump Numbers 5 and 6 were installed in 1990. These pumps and motors have reached or exceeded their useful service lives. Rotating parts show signs of severe wear, metallic parts are corroded beyond repair, and the pump impeller vanes and hubs are cracked. This results in pumps tripping out due to high vibrations and decreased pumping capacity and efficiency. The purpose of this project is to help ensure a reliable supply of service water for plant uses.

ATTACHMENTS: BACKGROUND KEY ISSUES RESOLUTION
FISCAL NOTE S/W/MBE OTHER _____

*OP_Award_J06075C03_JI_Service_Water_Pumps_legislative_file.docx
05-22-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Award of Contract J06075C03, Service Water Pump Numbers 1, 5 and 6 Replacement
at Jones Island Water Reclamation Facility

Under this contract, the contractor will:

- Remove the existing pump motors, motor stands, pumps, and discharge heads.
- Blast clean and paint the existing motor stands and discharge heads.
- Install new pumps and pump motors.
- Connect, align, and balance the three new pumps and motors utilizing the existing motor stands and discharge heads.
- Perform pump startup and testing.

The contract duration is 180 days.

RESOLUTION

Award of Contract J06075C03, Service Water Pump Numbers 1, 5 and 6 Replacement
at Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J06075C03, Service Water Pump Numbers 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility, is awarded to Crane Engineering Sales, Inc., in the amount of \$293,500, and that the Executive Director is directed to execute a contract on behalf of the District.



**Capital Budget Fiscal Note
Total Project Cost**

RELATING TO:

Award of Contract J06075C03, Service Water Pump Numbers 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:		
J06075-2018 JI Capital Equipment Rehabilitation/Replacement	<input type="checkbox"/> Increase	<input type="checkbox"/> Decrease	<input type="checkbox"/> New Project <input checked="" type="checkbox"/> No Change

<u>Total Project Cost Analysis</u>	<u>Project Costs</u>
Adopted 2019 Total Project Cost	\$8,005,464
Previously Approved Changes	\$0
Approved Total Project Cost	\$8,005,464
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change	
<hr/>	Transfer from Allowance for Cost and Schedule Changes
<hr/>	Transfer from another project (specify in comments)
<hr/>	Delay Project(s) (specify in comments)
<hr/>	Delete Project(s) (specify in comments)
<hr/>	Other _____
<hr/>	Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:	Date:
<u>Theresa Zwieg</u>	<u>5/9/2019</u>

Award of Contract J06075C03, Service Water Pump Nos. 1, 5, and 6 Replacement at Jones Island Water Reclamation Facility



Procurement & S/W/MBE Summary Information

Contract # J06075C03 **Cost Center:** OCC
Service Water Pump Nos. 1, 5 and 6 Replacement at Jones Island Water Reclamation Facility

BID SUMMARY

Bid Opening Date: 4/29/2019

	Total	SWMBE	Local
# of Bids	1	0	0
# of Responsive Bids	1	0	0

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Crane Engineering Kimberly, WI 54136	\$293,500.00	Responsive	Responsible	3.7%	3.7%

SUBCONTRACTOR INFORMATION

Type	Subcontractor Name	Type of Work	%	Amount
MBE	Sanchez Painting Contractors Wauwatosa, WI 53225	Painting	1.7%	\$5,000.00
SBE	EFH Trucking Milwaukee, WI 53215	Freight shipping	2.0%	\$6,000.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements

Sanitary Sewer Service Area (SSSA)
 Employment: 45%
 Target Area (TA) Employment: 20%
 # Apprentices Required: 0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered firms in the Construction category, sent targeted e-mails to 7 potential prime bidders, and sent targeted e-mails to 22 S/W/MBE electrical, mechanical, and painting firms. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Belonger Corp; Pro Electric, Inc.; Thomas A. Mason Co., Inc.

If no or low S/W/MBE participation, explain why:

According to the engineer's estimate, this project is 75% equipment and materials, leaving limited opportunity for SWMBE participation.

Additional Comments:

n/a

AWARDEE INFORMATION

Company:	<u>Crane Engineering</u>
Contact Person:	<u>Ashley Crowder</u>
Phone Number:	<u>(920) 257-0159</u>
E-mail Address:	<u>a.crowder@craneengineering.net</u>

EEO DATA

	Local or National Office? <u>Local</u>			Total # of Employees <u>93</u>	
	<u>Total</u>	<u>%</u>		<u>Total</u>	<u>%</u>
Minorities	<u>2</u>	<u>2.2%</u>	Females	<u>23</u>	<u>24.7%</u>
African American	<u>0</u>	<u>0.0%</u>	African American	<u>0</u>	<u>0.0%</u>
Asian	<u>0</u>	<u>0.0%</u>	Asian	<u>0</u>	<u>0.0%</u>
Hispanic	<u>0</u>	<u>0.0%</u>	Hispanic	<u>0</u>	<u>0.0%</u>
Native American	<u>2</u>	<u>2.2%</u>	Native American	<u>7</u>	<u>7.3%</u>
<i>Labor Market Availability - Minorities</i>		<u>6.8%</u>	<i>Labor Market Availability - Females</i>		<u>5.7%</u>



COMMISSION FILE NO: 19-074-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility (SSWRF), with Next Electric, LLC, in an amount of \$559,394. Next Electric, LLC, was the lowest responsible, responsive bidder between two bids received.

As part of the wastewater treatment process, the District must process biosolids each day. These biosolids are composed of the microorganisms used to remove dissolved solids and digested sludge. Normal operation consists of dewatering and drying these biosolids to produce Milorganite® at the Jones Island Water Reclamation Facility. During maintenance periods or unplanned outages of the Milorganite® production process, biosolids can be dewatered using filter press equipment at SSWRF. There are four operating filter presses at SSWRF.

Filter press dewatering uses pressure filtration to separate liquid from the solids and concentrate the solids. The liquid removed from the sludge is called filtrate, and it is returned to the plant influent for treatment. The concentrated solids or dewatered sludge are called sludge cake. The goal of this process is to produce dry sludge cake while minimizing the filtrate solids content.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

OP_Award_S04012C01_Filter_Press_Controls_Upgrade_legislative_file.docx
05-20-19

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility

The filter presses at SSWRF were installed in the early 1990's. They are controlled by programmable logic controllers (PLC's). PLC's are specialized computers, which can be programmed to automatically control valves, pumps, and equipment. The existing PLC's used to control the dewatering filter presses have been out of production for more than 15 years and are no longer supported. Any failure of the PLC system requires specialized parts to repair, and, currently, repair parts are only obtainable from the secondhand market.

Due to the critical nature of solids processing and disposal, it is essential that the dewatering filter presses be available for solids processing. To ensure reliability of the sludge dewatering process, staff recommends replacing the control system associated with the dewatering filter presses. The proposed contract scope consists of replacing the PLC's, indicator lights, and operator interfaces associated with the filter presses.

The contract duration is 312 days.

RESOLUTION

Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility, is awarded to Next Electric, LLC, in the amount of \$559,394, and that the Executive Director is directed to execute a contract on behalf of the District.



Capital Budget Fiscal Note
Total Project Cost

RELATING TO:

Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:
S04012-Plate and Frame Press Upgrade	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> New Project <input checked="" type="checkbox"/> No Change

<u>Total Project Cost Analysis</u>	<u>Project Costs</u>
Adopted 2019 Total Project Cost	\$767,855
Previously Approved Changes	\$0
Approved Total Project Cost	\$767,855
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change	
_____	Transfer from Allowance for Cost and Schedule Changes
_____	Transfer from another project (specify in comments)
_____	Delay Project(s) (specify in comments)
_____	Delete Project(s) (specify in comments)
_____	Other _____
_____	Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:	Date:
Theresa Zwieg _____	5/9/2019 _____

Award of Contract S04012C01, Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility



Procurement & S/W/MBE Summary Information

Contract # S04012C01 **Cost Center:** ENG
Sludge Dewatering Filter Press Controls Upgrade at South Shore Water Reclamation Facility

BID SUMMARY

Bid Opening Date: 5/1/2019

	Total	SWMBE	Local
# of Bids	2	1	1
# of Responsive Bids	2	1	1

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Next Electric, LLC Waukesha, WI 53186	\$559,394.00	Responsive	Responsible	35.5%	35.5%
Eclipse Controls, Inc. Milwaukee, WI 53209 (MBE)	\$755,000.00	Responsive	Responsible	47.2%	52.8%

SUBCONTRACTOR INFORMATION

Type	Subcontractor Name	Type of Work	%	Amount
SBE	Energenecs Saukville, WI 53080	Control Modifications	35.5%	\$198,500.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements

Sanitary Sewer Service Area (SSSA)
 Employment: 45%
 Target Area (TA) Employment: 20%
 # Apprentices Required: 0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered SWMBE and non-SWMBE firms in the general construction, electrical and mechanical categories, and notified the various local chambers of commerce. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Eclipse Controls, Enhanced Automation, Energenecs, Inc.

If no or low S/W/MBE participation, explain why:

NA

Additional Comments:

NA

AWARDEE INFORMATION

Company: Next Electric, Inc.
 Contact Person: Leo Maney
 Phone Number: (262) 506-3271
 E-mail Address: leo.maney@nextelectricinc.com

EEO DATA

Local or National Office?	<u>Local</u>	Total # of Employees	<u>235</u>
	<u>Total</u>	<u>Total</u>	<u>%</u>
Minorities	<u>39</u>	<u>16.6%</u>	Females
African American	<u>8</u>	<u>3.4%</u>	<u>15</u>
Asian	<u>1</u>	<u>0.4%</u>	<u>6.4%</u>
Hispanic	<u>13</u>	<u>5.5%</u>	African American
Native American	<u>1</u>	<u>0.4%</u>	Asian
			Hispanic
			Native American
			<u>0</u>
			<u>0.0%</u>
			<u>0</u>
			<u>0.0%</u>
			<u>1</u>
			<u>0.4%</u>
			<u>0</u>
			<u>0.0%</u>
<i>Labor Market Availability - Minorities</i>	<u>20.0%</u>	<i>Labor Market Availability - Females</i>	<u>48.0%</u>



COMMISSION FILE NO: 19-075-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director’s Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order Five to Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility (SSWRF) Post-Secondary Capacity Improvements, with Arcadis U.S., Inc., (Arcadis) in an amount not to exceed \$77,693, and to restore the Executive Director’s original delegated authority.

The District’s 2020 Facilities Plan, completed in 2007, identified the need to increase the peak wet weather capacity of SSWRF if projected population increases occurred. The Wisconsin Department of Natural Resources (WDNR) subsequently implemented a Wisconsin Permit Discharge Elimination System (WPDES) permit requirement that the District complete design of increases in SSWRF full wet weather capacity by December 31, 2017.

To help meet this permit requirement, in September 2016, the Commission authorized Contract S03003D01, Engineering Services for SSWRF Post-Secondary Capacity Improvements, to Arcadis. This contract included design engineering services related to the SSWRF effluent pumping and disinfection processes. Arcadis completed preliminary design of these improvements. While this preliminary work was proceeding, staff recognized that the projected population increases had not materialized. Staff then requested and WDNR approved removing the wet weather full treatment capacity requirement from the permit. Staff directed Arcadis to stop work on their preliminary design.

ATTACHMENTS: BACKGROUND KEY ISSUES RESOLUTION
FISCAL NOTE S/W/MBE OTHER _____

*OP_Change_Order_05_S0303D01_Restore_Authority_legislative_file.docx
05-23-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director's Original Delegated Authority

Blending at SSWRF means routing some wastewater that has gone through preliminary and primary treatment around the secondary treatment process and combining it back with wastewater that has received preliminary, primary, and secondary treatment. This blended effluent must meet all effluent water quality requirements under the District's WPDES permit and can only be performed under certain permit conditions. Blending allows for higher rates of treatment while still protecting effluent quality. WDNR allows blending in the SSWRF permit, but SSWRF does not have the capabilities to blend.

With the District's vision of eliminating overflows and basement backups and as blending can reduce those risks, District staff authorized Arcadis to begin performing engineering analyses to determine how to implement blending at SSWRF. Much of the work Arcadis had performed on wet weather capacity also applies to blending. Arcadis's work to date indicates that blending is a feasible and low cost alternative to increasing SSWRF wet weather capacity.

Change Order One replaced the original final design work and construction related services with a preliminary evaluation of blending. Change Orders Two and Three included more detailed work related to the blending evaluation.

Change Order Four included the following design services related to blending and increased flow capacity:

- Improvements to pre-chlorinate primary effluent.
- Chemical pump improvements to increase disinfection system capacity.
- Improvements to improve chemical mixing in the disinfection process.

This proposed Change Order Five includes the remaining engineering services related to blending and increased flow capacity, including:

- Project management.
- Delivery of final bid and construction contract documents.
- Bid and award services.
- Engineering services during construction.
- Operations and maintenance manual, training, and startup.
- Applications engineering.

The resulting bid document for construction will be publicly advertised and bid.

SUMMARY (Cont'd)

Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director's Original Delegated Authority

For engineering service contracts greater than or equal to \$500,000, the Commission has delegated to the Executive Director the authority to make changes up to \$200,000 or 10 percent of the original contract price, whichever is less. For this contract, a limit of \$64,300 prevails. To date, the Executive Director has utilized \$63,579 of this authority, leaving a balance of \$721. The request to restore the Executive Director's authority is in case any other additional services of are needed.

The District has a separate project (S02008, Preliminary and Secondary Capacity Improvements) that, once implemented along with Project S03003, will allow for blending at the SSWRF up to 75 million gallons per day (MGD). This capacity is above the SSWRF existing peak capacity of 300 MGD. There will be future Commission contract requests for work on Project S02008 to fully implement blending.

CONTRACT COST CHANGES

	AMOUNT	PERCENT INCREASE VS. ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$643,002.00	-	Commission	27.2%
Change Order 1	(\$144,576.86)	-22.5%	Executive Director	53.1%
Change Order 2	\$1,003.00	0.16%	Executive Director	77.2%
Change Order 3	\$69,924.00	10.9%	Executive Director	8.0%
Change Order 4	\$137,229.00	21.3%	Executive Director	17.7%
Change Order 5	\$77,693	12.1%	Commission Request	39.8%
Total Change Orders	\$141,272.14	22.0%		46.8%
Total	\$784,274.14			20.3%

RESOLUTION

Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Five to Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, with Arcadis U.S., Inc., in an amount not to exceed \$77,693, and that the Executive Director's original delegated authority is restored.



Capital Budget Fiscal Note
Total Project Cost

RELATING TO:

Change Order Five, Contract S03003D01, Engineering Services for South Shore Water Reclamation Facility Post-Secondary Capacity Improvements, and Restore the Executive Director's Original Delegated Authority

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:
S03003-Post Secondary Capacity Improvements	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> New Project <input checked="" type="checkbox"/> No Change

<u>Total Project Cost Analysis</u>	<u>Project Costs</u>
Adopted 2019 Total Project Cost	\$1,690,900
Previously Approved Changes	\$0
Approved Total Project Cost	\$1,690,900
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change	
_____	Transfer from Allowance for Cost and Schedule Changes
_____	Transfer from another project (specify in comments)
_____	Delay Project(s) (specify in comments)
_____	Delete Project(s) (specify in comments)
_____	Other _____
_____	Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:	Date:
Theresa Zwieg _____	5/9/2019 _____



COMMISSION FILE NO: 19-076-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director’s Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order Five to Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, with Stantec Consulting Services, Inc., (Stantec) in an amount not to exceed \$1,996,112, and to restore the Executive Director’s original delegated authority.

The Western Milwaukee Project is part of the overall Menomonee River Phase II Watercourse Management Plan (Plan). The Plan includes flood management with integrated watercourse restoration. It reduces the flood risk of 319 structures and simultaneously provides aquatic and riparian habitat restoration.

The Western Milwaukee Project focuses on the Menomonee River between Hart Park and U.S. Highway (USH) 175 and is in the Cities of Milwaukee and Wauwatosa. The project consists of design and construction of a levee/floodwall system, lowering of the floodplain between the river and the Canadian Pacific Railroad (CPR) tracks, and modification of the interior drainage system. There are three phases to the Western Milwaukee Project: Phases 1, 2A, and 2B. The District has constructed Phases 1 and 2A.

The Western Milwaukee Phase 2B project includes designing and constructing improvements along West State Street between North 60th Street and USH 175. The Phase 2B project area land use consists primarily of commercial structures, some residential properties, and the CPR tracks.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

*OP_Change_Order_05_W20028D01_W_Milwaukee_2B_legislative_file.docx
05-29-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director's Original Delegated Authority

In 2014, the District completed Phase 2B preliminary engineering and was ready to proceed with final design of the flood protection work. The original Phase 2B plan included the following elements:

- A flood gate system on the CPR bridge over the Menomonee River;
- Approximately 2,000 feet of levee embankment;
- Approximately 1,140 feet of concrete floodwall adjacent to the CPR right-of-way;
- Approximately 360 feet of 90-inch storm sewer system;
- Contaminated soil remediation; and
- Approximately eight acres of turf and native plantings.

As the project was being further developed, CPR notified the District that a flood gate system on the CPR bridge was no longer an acceptable alternative, despite indicating to the District in 2014 that it was a feasible alternative. This change resulted in the need to reevaluate alternatives. In addition, changes in Federal Emergency Management Agency (FEMA) rule interpretations would allow the District to pursue some additional alternatives that were unavailable during the original preliminary engineering phase.

In October 2017, the Commission authorized Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, to Stantec. The contract included alternative evaluation, and staff indicated to the Commission that, after the final alternative was identified and ready to proceed to final design, they would negotiate an updated final design fee with Stantec and amend the contract to add that final design.

The alternatives evaluation performed by Stantec in mid-2018 has narrowed the list of alternatives to three. All three remaining alternatives have some common elements, consisting of levees, floodwalls, soil remediation, storm sewers, turf and native plantings, and floodproofing or demolition of some buildings. In July 2018, the Commission authorized Change Order Two to provide for design of these common elements.

As the final design has progressed, Stantec and District staff have identified the need for multiple scope changes, which are described below.

SUMMARY (Cont'd)

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director's Original Delegated Authority

1. Changes associated with floodwall adjacent to the CPR Railway

The project had planned to construct a 1,140-foot-long concrete floodway adjacent to the CPR right-of-way. As design has progressed, CPR has requested that the District locate the floodwall further away from their right-of-way. This would push the floodwall into the river, which would then cause a flow constriction and increased flood levels. To compensate for this flow constriction, the project team proposes to widen the river where the floodwall would be located on the north side of the river by moving the south bank further south. This results in additional costs necessary to perform engineering analysis and design.

The change in the floodwall also will delay approvals from CPR, the Wisconsin Department of Natural Resources (WDNR), and FEMA for this part of the project, along with the additional time to design the changes. To allow for the levee portion of the project to continue to final design and construction while the floodwall segment is developed, this change also includes splitting the originally planned single bid document into two bid documents: one for the levee and one for the floodwall.

2. Changes associated with WDNR environmental regulations

Working with WDNR, staff has identified several additional WDNR approvals related to contaminated soil management that the District must obtain prior to construction. This includes changes to existing soil management plans based on updated information and requirements and developing plans to manage newly identified soil contamination. These require additional environmental services from Stantec.

3. Changes associated with newly regulated floodplain

To date, some areas protected by the proposed levee and floodplain were not believed to be considered regulatory floodplain, as the extent of ponding behind the levee due to internal drainage was not thought to be significant. Work performed by Southeastern Wisconsin Regional Planning Commission has identified deeper ponding behind the levee, which would result in a change to how these areas will be regulated by FEMA. Unless additional actions are taken, these areas will now be considered part of the FEMA floodplain. To remove these areas from the regulated floodplain, additional floodplain evaluation and design of storm sewers and improvements on the protected side of the levee are necessary. This evaluation and design work were not in Stantec's contract scope.

SUMMARY (Cont'd)

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director's Original Delegated Authority

4. FEMA Levee Certification Analysis

For the properties protected by the levee system to be removed from the regulatory floodplain, FEMA requires a levee certification of the entire levee system. A levee certification is a comprehensive undertaking that considers the four prior levee construction contracts (Hart Park, Western Milwaukee Phase 1 and Phase 2A, and 59th and State Pump Station), the levee constructed under the Phase 2B project, changes to the levee system since the original construction, and new requirements FEMA has developed since the levee system construction began. This work was not in Stantec's scope of services. Staff recommends using Stantec to perform the levee certification analysis, as they are currently best positioned to perform this work. This initial levee certification work will only identify where levee improvements may be necessary. If levee improvements are needed, additional design work may be required.

5. Additional FEMA Conditional Letter of Map Revision (CLOMR) submittal

A floodplain change is initiated with a CLOMR request to FEMA, and FEMA needs to approve a CLOMR prior to construction. While much of the project has already been approved by FEMA, the new floodwall alignment and hanging levee cause floodplain changes that require an additional FEMA CLOMR approval. The levee construction contract can proceed prior to the additional CLOMR approval; however, the floodwall construction contract requires the additional CLOMR approval by FEMA. This CLOMR development was not in Stantec's contract scope.

The updated project now consists of the following (all lengths are approximate):

- 2,000 feet of levee embankment;
- 1,140 feet of concrete floodwall adjacent to the CPR right-of-way;
- 360 feet of 72-inch storm sewer system at Hawley Road;
- 1,800 feet of 72-inch storm sewer from State Street at 60th Street to east of Hawley Road;
- 1,600 feet of up to 72-inch storm sewer from State Street at 50th Place to 47th Street;
- Widen the river for approximately 400 feet along the south bank;
- Contaminated soil remediation (expanded from original scope);
- Approximately eight acres of turf and native plantings;
- Updated CLOMR submittal; and
- Overall levee certification analysis.

SUMMARY (Cont'd)

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director's Original Delegated Authority

Staff anticipates requesting from the Commission another contract change order after the initial levee certification desktop analysis and field reconnaissance are completed and if other changes occur to the project. Once any items needed to address levee certification are known, staff will negotiate this change order and request its authorization. This change order will most likely consist of alternatives evaluation and design elements needed to complete levee certification.

For engineering service contracts greater than or equal to \$500,000, the Commission has delegated to the Executive Director the authority to make changes up to \$200,000 or 10 percent of the original contract price, whichever is less. For this contract, a limit of \$133,918 prevails. To date, the Executive Director has utilized \$133,918 of this authority, leaving no balance. The request to restore the Executive Director's authority is in case any other additional services of a minor nature are needed.

CONTRACT COST CHANGES

CONTRACT	AMOUNT	PERCENT INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original	\$1,339,180		Commission	22.0%
Change Order One	\$127,610	9.5%	Executive Director	43.4%
Change Order Two	\$575,970	43.0%	Commission	43.4%
Change Order Three	\$0	0%	Executive Director	0%
Change Order Four	\$133,918	10%	Executive Director	20.1%
Change Order Five	\$1,996,112	149.1%	Request of Commission	20.1%
Total Change Orders	\$2,833,610	211.6%		26.5%
TOTAL	\$4,172,790			21.7%

RESOLUTION

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director’s Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Five to Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, with Stantec Consulting Services, Inc., in an amount not to exceed \$1,996,112, and that the Executive Director’s original delegated authority is restored.



**Capital Budget Fiscal Note
Total Project Cost**

RELATING TO:

Change Order Five, Contract W20028D01, Engineering Services – Western Milwaukee Flood Management Project – Phase 2B, and Restore the Executive Director’s Original Delegated Authority

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:
W20028-Western Milwaukee Phase 2B	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> New Project <input checked="" type="checkbox"/> No Change

<u>Total Project Cost Analysis</u>	<u>Project Costs</u>
Adopted 2019 Total Project Cost	\$25,306,989
Previously Approved Changes	\$0
Approved Total Project Cost	\$25,306,989
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change	
_____	Transfer from Allowance for Cost and Schedule Changes
_____	Transfer from another project (specify in comments)
_____	Delay Project(s) (specify in comments)
_____	Delete Project(s) (specify in comments)
_____	Other _____
_____	Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:	Date:
Theresa Zwieg _____	5/9/2019 _____



COMMISSION FILE NO: 19-077-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order Number Two to Contract TS-2636, Conveyance Operation and Maintenance (O&M) Manual with Donohue and Associates, Inc., (Donohue) in an amount not to exceed \$240,000 and to restore the Executive Director's original delegated authority. This is a continuation of work already performed by Donohue as part of this project.

The District owns, and Veolia Water Milwaukee (Veolia) operates, a wastewater collection, conveyance, and storage system. The Metropolitan Interceptor Sewer (MIS) system collects wastewater from 28 communities and conveys it to either the Jones Island or the South Shore Water Reclamation Facility. When the MIS is unable to convey all sewage to the water reclamation facilities, some sewage is diverted to the Inline Storage System (Deep Tunnel), which stores excess sewage until it can be treated at the water reclamation facilities.

The process of conveying wastewater requires numerous facilities, including sewer pipe, pumping stations, diversion structures, and level monitoring stations. The operation of the Deep Tunnel requires facilities containing hydraulic flow control gates, diversion structures, and level monitoring. These facilities contain equipment, including electrical control panels, hydraulic systems for gate control, level monitoring instrumentation, and communication systems. These systems require ongoing maintenance and repairs to ensure reliable operation and to reduce the number and volume of sewage overflows. Maintenance and repair of the conveyance facilities relies on accurate, up to date, and readily available information.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

*OP_Award_TS2636_ConveyanceO&M_Phase3_legislative_file.docx
05-23-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority

The O&M Manual created through the project will increase the efficiency of O&M activities by making current information readily available from a single source to maintenance personnel. In addition, the information will be available in the field via remote access devices. It will also allow prompt updating of information as changes and additions are made in the conveyance system.

The O&M Manual will be a resource for Veolia and MMSD staff involved with the operation of the conveyance system and the Deep Tunnel. The manual will document the decision making process utilized in wet weather operations and management of both the MIS system and Deep Tunnel storage system. It will document the automated controls in the Supervisory Control and Data Acquisition System, Real Time Control Strategy, and the process of determining the volume reserved for separate sewage. It will also document the process of operating the Harbor Siphon gate structure and the South Shore Flow Control structure, both of which have impacts on the conveyance system.

Work already completed under the original scope and Change Order No. 1 includes:

- Defining and creating the overall layout, structure, and organization of the O&M Manual.
- Identifying, gathering, and compiling information about several of the conveyance sites from multiple sources and consolidating this information in the O&M Manual.
- Identifying, gathering, and compiling information for an additional 20 critical sites and 75 noncritical sites.

Proposed Change Order No. 2 will continue the process of identifying, gathering, and compiling information on an additional 48 critical sites. Staff anticipates potentially one final change order after Change Order No. 2 to complete work on the Conveyance O&M Manual.

Staff recommends performing this additional work as a change order instead of soliciting new proposals as Donohue has gained extensive experience through their work to date. This experience will translate into efficiencies as they continue their work on the O&M Manual. Donohue's cost proposal for this work was compared on an individual site basis to costs previously incurred and to expected costs and found to be reasonable.

SUMMARY (Cont'd)

Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority

The Commission has delegated to the Executive Director the authority to make cumulative architect and engineering service contract change orders up to \$50,000 for contracts less than \$500,000 as approved by the Commission. As the original contract amount was \$228,450, the Executive Director has \$50,000 in change order authority. To date, the Executive Director has utilized \$50,000 of this authority, leaving no balance. The request to restore the Executive Director's authority is in case any other additional services of a minor nature are needed.

CONTRACT COST AND SCHEDULE CHANGES

CONTRACT	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE %
Original	\$228,450		Commission	15%
Change Order One	\$50,000	22%	Executive Director	20%
Change Order Two	\$240,000	105%	Request of Commission	25%
Total Change Orders	\$290,000	127%		24%
TOTAL	\$518,450			20%

RESOLUTION

Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Number Two to Contract TS-2636, Conveyance Operation and Maintenance Manual with Donohue and Associates, Inc., in an amount not to exceed \$240,000, and that the Executive Director's original delegated authority is restored.



O&M Budget Fiscal Note

RELATING TO:

Change Order Number Two, Contract TS-2636, Conveyance Operation and Maintenance Manual, and Restore the Executive Director's Original Delegated Authority

Cost Center:	Line Item:
OCC _____	645 _____

Line Item Impact			
2019 Original Budget	\$430,000		
Carryovers or Transfers	\$0		
Adjusted Budget	\$430,000		
Estimated Annual Expenditure including Request	\$336,900		
Anticipated Year End Balance	\$93,100		
Actual Year to Date Expenditures Through 5/14	\$92,847		
For unfavorable Year End Balance, identify funding source:			
	<input type="checkbox"/>	Absorbed within the Division	
	<input type="checkbox"/>	Other Division	
	<input type="checkbox"/>	Unallocated Reserve	
Anticipated Expenditure Timing	Requested Expenditures	Anticipated Savings/Revenues	Net Fiscal Impact
Current Year (2019)	\$240,000	\$0	\$240,000
Subsequent	\$0	\$0	\$0
Total Cost	\$240,000	\$0	\$240,000

Comments: The requested expenditures were included in the Adopted 2019 O&M OCC budget.

Budget Review by:	Date
Theresa Zwieg _____	5/14/2019 _____



COMMISSION FILE NO: 19-078-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a purchase order with Veolia Water Milwaukee, LLC, (VWM) for Material Capital Repair or Replacement (MCRR) No. 1177, South Shore Water Reclamation Facility (SSWRF) Building 359 Odor Control System Repairs, in an amount not to exceed \$168,037.

Building 359 at SSWRF is the Sludge Dewatering Building. The equipment in the building includes three gravity belt thickeners (GBT's) used to thicken primary sludge from SSWRF and Jones Island Water Reclamation Facility prior to digestion in the anaerobic digesters at SSWRF. Also located in Building 359 are three wet wells that receive primary sludge prior to being thickened in the GBT's and six storage tanks that hold sludge after it has been thickened in the GBT's. An odor control system in the building is designed to pull odorous air from the wet wells and storage tanks, blow it through three fiberglass reinforced plastic vessels that contain odor-adsorbing carbon media, and exhaust the treated air to the atmosphere.

At some point in time, this odor control system was no longer operated due to its condition. After this system stopped operating, there were minimal odor complaints; therefore, the system was left in a nonoperable state. With a renewed focus on reducing plant odors, District staff recommends inspecting and repairing any defects and replacing odor absorbing media to make this odor control system operational again.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

OP_Auth_Purchase_MCRR1177_Bldg359OdorControl_legislative_file.docx
05-24-19

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs

Under this contract, the contractor will:

- Remove and dispose of all spent carbon media.
- Perform an inspection of each of the three odor control vessels and provide cost estimates to perform any recommended repairs. Repairs will be made as necessary using the Executive Director's authority for contract changes.
- Install new carbon media (currently stored at SSWRF) in the three odor control vessels.

VWM competitively bid the work, and Butters Fetting Co., Inc., (Butters Fetting) was the only responsive and responsible bidder. The purchase order will be issued to VWM, which will be responsible for managing and overseeing the contract with Butters Fetting.

Consistent with the Agreement for Management, Operations, and Maintenance with VWM, the purchase order includes \$19,037 overhead and markup for VWM. This is in addition to the \$149,000 contract amount for Butters Fetting, resulting in a total purchase order amount of \$168,037.

The contract duration is 90 days.

RESOLUTION

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a purchase order with Veolia Water Milwaukee, LLC, for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs, in an amount not to exceed \$168,037.



O&M Budget Fiscal Note

RELATING TO:

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs

Cost Center: OCC _____	Line Item: 185 _____
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Line Item Impact

2019 Original Budget	\$250,000
Carryovers or Transfers	\$0
Adjusted Budget	\$250,000
Estimated Annual Expenditure including Request	\$1,467,098
Anticipated Year End Balance	(\$1,217,098)
Actual Year to Date Expenditures Through 5/8	\$118,698

For unfavorable Year End Balance, identify funding source: Absorbed within the Division
 Other Division
 Unallocated Reserve

Anticipated Expenditure Timing	Requested Expenditures	Anticipated Savings/Revenues	Net Fiscal Impact
Current Year (2019)	\$168,037	\$0	\$168,037
Subsequent	\$0	\$0	\$0
Total Cost	\$168,037	\$0	\$168,037

Comments: The requested expenditures are to perform odor control system repairs at SS. It is anticipated the unfavorable variance can be absorbed within the Division at year-end. Budget staff will monitor the variance throughout the year.

Budget Review by:	Date
Theresa Zwieg _____	5/9/2019 _____

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1177, South Shore Water Reclamation Facility Building 359 Odor Control System Repairs



Procurement & S/W/MBE Summary Information

Contract # MCRR 1177 **Cost Center:** Veolia

South Shore Water Reclamation Facility Building 359 Odor Control System Repairs

BID SUMMARY

Bid Opening Date: 2/21/2019

	Total	SWMBE	Local
# of Bids	1	0	1
# of Responsive Bids	1	0	1

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Butters-Fetting Co. Milwaukee, WI 53204	\$ 149,000.00	Responsive	Responsible	38.4%	31.7%

SUBCONTRACTOR INFORMATION

Type	Subcontractor Name	Type of Work	%	Amount
SBE	North American Safety Systems LLC Twin Lakes, WI 53181	Confined space	12.2%	\$18,200.00
WBE	Great Lakes Power Vac Waukesha, WI 53186	Carbon removal	19.5%	\$29,099.00
Non-SWMBE	Continental Carbon Group Stoney Creek, ON L8E 0C5	Carbon supplies	6.7%	\$9,952.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements

Sanitary Sewer Service Area (SSSA)
Employment: 45%

Target Area (TA) Employment: 20%

Apprentices Required: 0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered firms, sent targeted e-mails to potential prime bidders, and sent targeted e-mails to SWMBE firms. The bid opportunity is also publicly accessible from the Veolia and QuestCDN websites.

S/W/MBE Planholders:

n/a

If no or low S/W/MBE participation, explain why:

n/a

Additional Comments:

n/a

AWARDEE INFORMATION

Company:	<u>Butters Fetting Co.</u>
Contact Person:	<u>Dave Ruffalo</u>
Phone Number:	<u>414-507-2076</u>
E-mail Address:	<u>druffalo@buttersfetting.com</u>

EEO DATA

	Local or National Office?	<u>National</u>		Total # of Employees	<u>240</u>
	Total	%		Total	%
Minorities	<u>11</u>	<u>4.6%</u>	Females	<u>11</u>	<u>4.6%</u>
African American	<u>3</u>	<u>1.3%</u>	African American	<u>3</u>	<u>1.3%</u>
Asian	<u>0</u>	<u>0.0%</u>	Asian	<u>0</u>	<u>0.0%</u>
Hispanic	<u>8</u>	<u>3.3%</u>	Hispanic	<u>8</u>	<u>3.3%</u>
Native American	<u>6</u>	<u>2.5%</u>	Native American	<u>6</u>	<u>2.5%</u>
	<i>Labor Market Availability - Minorities</i>	<u>20.0%</u>		<i>Labor Market Availability - Females</i>	<u>48.0%</u>



COMMISSION FILE NO: 19-079-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Number One to a Purchase Order for Ferric Chloride Use at the South Shore Water Reclamation Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order Number One to a purchase order with Veolia Water Milwaukee, LLC, (VWM) for the purchase and use of ferric chloride at the South Shore Water Reclamation Facility (SSWRF) in an amount not to exceed \$187,200.

VWM used ferric chloride at SSWRF in the primary treatment process in 2008 through 2012. Ferric chloride was dosed for phosphorous removal, but also had the benefit of removal of biochemical oxygen demand (BOD) in the primary treatment process. Removal of BOD in the primary process reduces the BOD loading to the aeration/secondary treatment process. Between 2009 and 2012, VWM gradually used less ferric chloride and more ferrous chloride. Ferric chloride currently costs approximately three times as much as ferrous chloride.

In the past two to three years, SSWRF has had increased challenges in meeting plant capacity and contracted effluent quality requirements. Since one changed condition is the change from ferric chloride to ferrous chloride, VWM and the District recently coordinated to conduct a short-term test to determine the benefit of using ferric chloride versus ferrous chloride at SSWRF to aid in the wastewater treatment process. The test was conducted for short durations with various doses of ferric chloride and ferrous chloride. The test showed that there is an improvement in the removal of BOD in the primary treatment process with the addition of ferric chloride compared to the addition of ferrous chloride.

ATTACHMENTS: BACKGROUND KEY ISSUES RESOLUTION
FISCAL NOTE S/W/MBE OTHER _____

*OP_Change_Order_1_Purchase_Order_SSWRF_Pilot_Project_Legislative_file.docx
05-20-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Number One to a Purchase Order for Ferric Chloride Use at the South Shore Water Reclamation Facility

In addition, increasing the dose of ferric chloride increased the removal of BOD in the primary treatment process. Removal of more BOD in the primary treatment process enables the secondary treatment process to produce better effluent quality.

While the short-term tests appear to confirm plant performance improvement with the use of ferric chloride, they were just short-term tests. To better understand the impact of ferric chloride use, staff has begun a longer-term operational change (three months) to better understand how ferric chloride use will affect plant performance.

The operational change will dose ferric chloride at a relatively constant rate for approximately three months, similar to how ferric chloride was dosed in 2008 through 2010. In conjunction with dosing ferric chloride, SSWRF will change other operating parameters to be similar to plant operations in 2008 through 2010. The purpose of this effort is to recreate past operating practices relative to current wastewater flow. This will isolate the impact that changes in operations have to plant capacity and effluent quality from any changes that may have occurred in the wastewater influent. This will enable a reevaluation of past operating practices and the impacts to the wastewater treatment process and to solids processing. The project will be at full scale and for a long enough time to ascertain all impacts, both positive and negative.

The estimated incremental cost of ferric chloride is \$112,320 per month for a total of \$336,960 for the duration of the three-month project.

The District has issued a purchase order to VWM in the amount of \$149,760 under the authority of the Executive Director to begin the project, which began in May 2019. The purchase order incorporates all the terms and conditions of the Extension Agreement for Management, Operations and Maintenance Service with VWM. The remaining incremental cost for ferric chloride estimated to complete the three-month project is \$187,200.

PURCHASE ORDER COST CHANGES

PURCHASE ORDER	AMOUNT	PERCENT INCREASE OVER ORIGINAL PURCHASE ORDER	AUTHORIZED BY
Original	\$149,760		Executive Director
Change Order Number One	\$187,200	125%	Request of Commission
TOTAL	\$336,960		

The project is expected to be completed in August 2019.

RESOLUTION

Change Order Number One to a Purchase Order for Ferric Chloride Use at the South Shore Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Number One to a purchase order with Veolia Water Milwaukee, LLC, for ferric chloride use at the South Shore Water Reclamation Facility in an amount not to exceed \$187,200.



O&M Budget Fiscal Note

RELATING TO:

Change Order Number One to a Purchase Order for Ferric Chloride Use at the South Shore Water Reclamation Facility

Cost Center: Office of Contract Compliance _____	Line Item: 643-1 Operations Fee _____
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Line Item Impact			
2019 Original Budget		\$47,678,433	
Carryovers or Transfers		\$0	
Adjusted Budget		\$47,678,433	
Estimated Annual Expenditure including Request		\$48,155,609	
Anticipated Year End Balance		(\$477,176)	
Actual Year to Date Expenditures Through 8/15		\$11,992,102	
For unfavorable Year End Balance, identify funding source: <input checked="" type="checkbox"/> Absorbed within the Division <input type="checkbox"/> Other Division <input type="checkbox"/> Unallocated Reserve			
Anticipated Expenditure Timing			
	Requested Expenditures	Anticipated Savings/Revenues	Net Fiscal Impact
Current Year (2019)	\$187,200	\$0	\$187,200
Subsequent	\$0	\$0	\$0
Total Cost	\$187,200	\$0	\$187,200

Comments:

Budget Review by:	Date
Christine Durkin _____	5/15/2019 _____



COMMISSION FILE NO: 19-080-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, and Approve Changes in Total Project Cost

SUMMARY:

The Commission is requested to authorize and to direct the Executive Director to execute on behalf of the District Change Order Number Five to Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, with HNTB Corporation in an amount not to exceed \$1,653,191, and to restore the Executive Director’s original delegated authority.

Further, the Commission is requested to increase the total project cost for Project M03037, 2050 Facilities Plan – Ultimate Build Out, by \$1,653,191, for an amended total project cost of \$11,852,469, and to make a corresponding change to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.

The 2050 Facilities Plan is an innovative project that relies on a strong foundation of an asset management-based approach as the basis for the planning process; this approach breaks new ground for facilities planning. As originally envisioned, this approach includes the development of an Asset Management Plan (AMP) that will be used regularly and updated annually by District staff in the future. It includes an assessment of 2035 conditions considering the District’s 2035 Vision and the full build-out of the region assumed in 2050. In developing the AMP foundations over the past several years, the consultant team has worked with District staff to create custom tools that will assist with the District’s ongoing planning and asset management processes moving forward.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

OP_Amendment_5_M03037P01_2050_Facilities_Plan_legislative_file.docx
05-23-19

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, and Approve Changes in Total Project Cost

This change order is necessary to accommodate a change in project direction to accomplish the Facilities Plan. The process of developing the AMP format and planning tools is now requiring significantly more coordination and review than originally anticipated. The change being requested will result in major improvements to the organization's ability to forecast and address future investment needs.

The District executed Change Order Number One under the Executive Director's authority as a no-cost time extension that extended the contract end date from December 31, 2017 to December 31, 2018.

The District executed Change Order Number Two under the Executive Director's authority in an amount not to exceed \$150,000. The scope of Change Order Number Two consisted of additional project management and administration, development of the expanded AMP, and additional modeling.

The District executed Change Order Number Three to provide additional scope to include development of an expanded AMP, additional conveyance system modeling and evaluation of the conveyance system, additional modeling and analysis of green infrastructure, and additional evaluation of the water reclamation facilities and biosolids systems.

The District executed Change Order Number Four to provide more flexibility in the consultant's use of funds. This allowed money to be used to split the project from the AMP and to rescope the effort involved.

This proposed Change Order Number Five removes the remaining labor-intensive asset management plan from the scope of work. Instead, asset management staff will focus on more immediate needs to look at short-term issues at the water reclamation facilities. To not further delay the 2050 Facilities Plan, the 2050 Facilities Plan contract will include tasks that complete interim work products that have been developed to date for both plans, efficiently sharing data and findings. No effort is wasted as a result of the split between asset management and facilities planning. This is an efficient point at which to take stock, rescope the 2050 Facilities Plan work to be done, and complete the work in 2020. This change order will also extend the contract end date to December 2020.

SUMMARY (Cont'd)

Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, and Approve Changes in Total Project Cost

CONTRACT COST CHANGES

CONTRACT	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL	AUTHORIZED BY	SWMBE
Original	\$4,905,265		Commission	20.8%
Change Order No. 1	\$0	0.0%	Executive Director	N/A
Change Order No. 2	\$150,000	3.1%	Executive Director	33.4%
Change Order No. 3	\$1,325,158	27.0%	Commission	31.4%
Change Order No. 4	\$0	0.0%	Executive Director	N/A
Change Order No. 5	\$1,653,191	33.7%	Request of the Commission	17.5%
Change Order Total	\$3,128,349	63.8%		
TOTAL	\$8,033,614			22.5%

RESOLUTION

Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, and Approve Changes in Total Project Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Number Five to Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, with HNTB Corporation in the amount not to exceed \$1,653,191.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the total project cost for Project M03037, 2050 Facilities Plan – Ultimate Build Out, is increased by \$1,653,191 for an amended total project cost of \$11,852,469, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Change Order Number Five, Contract M03037P01, Professional Services, 2050 Facilities Plan – Ultimate Build Out, and Approve Changes in Total Project Cost

Capital Project Number(s)

M03037

Impact of Requested Action on Total Project Cost:

Increase Decrease New Project No Change

Total Project Cost Analysis

Project Costs

Adopted 2019 Total Project Cost
Previously Approved Changes
Approved Total Project Cost
Requested Total Project Cost
Requested (Increase)/Decrease

\$10,199,278
\$0
\$10,199,278
\$11,852,469
(\$1,653,191)

Action to be taken to Long-Range Financing Plan to address Total Project Cost change

Transfer from Allowance for Cost and Schedule Changes
 Transfer from another project (specify in comments)
 Delay Project(s) (specify in comments)
 Delete Project(s) (specify in comments)
 Other _____
 Transfer to Allowance for Cost and Schedule Changes

Comments

Budget Review by:

Christine Durkin

Date:

5/15/2019



COMMISSION FILE NO: 19-081-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original Delegated Authority, and Approve Changes in Total Contract Cost

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Change Order Four to Contract J06026C01, Jones Island Water Reclamation Facility (JIWRF) Nonhazardous Site Lighting Upgrade, with Next Electric, Inc., in an amount not to exceed \$40,000 for an amended total contract cost of \$406,184.70, and to restore the Executive Director's original delegated authority.

The Commission awarded Contract J06026C01 in March 2018 to Next Electric, Inc., which began construction in April 2018. The work consists of removing and properly disposing of the older, less efficient lighting technology in the nonhazardous areas of JIWRF and replacing over 3,000 lights with newer light emitting diode (LED) lighting technology. The nonhazardous classification is based on the fixture locations within the facilities. The lighting to be upgraded has reached the end of its useful life, uses older, less efficient technology, and service parts are becoming obsolete. The purpose of this contract was to replace the outdated lighting technology with new LED lighting. LED lighting has a much longer life and uses far less energy for the same light output.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

*OP_Change_Order4_J06026C01_Restore_Authority_legislative_file.docx
05-22-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original Delegated Authority, and Approve Changes in Total Contract Cost

After award and prior to construction, it was determined that some of the planned bulb replacements could not be performed due to field conditions. In some cases, the fixtures that were specified for the project during design were not compatible due to either the poor condition of the existing ballast that was planned to be reused, the existing wiring configuration, or the buckets not matching. Where necessary, the proposed solutions are to direct wire the bulbs and to remove the ballasts or to replace the fixtures. Both solutions are eligible for Focus on Energy credits.

Change Order One included procuring new brackets for fixtures where the original brackets were incompatible and full fixture replacements were necessary and was approved using the Executive Director's authority for contract changes.

Change Order Two included full fixture replacements and was approved using the Executive Director's authority for contract changes.

Change Order Three included procurement of additional fixtures due to incorrect bidding documents, incompatible wiring configurations, and procurement of new lighting switches compatible with the new fixtures and was approved using the the Executive Director's authority for contract changes.

Staff recommends approval of Change Order Four for replacing the fixtures due to poor condition of the existing fixture.

Cumulative contract change orders resulting in an increase in contract price may not exceed \$50,000 for contracts under \$500,000 without Commission approval. For this contract, a limit of \$50,000 prevails. To date, the Executive Director has used \$48,820.70 of this authority, leaving a balance of \$1,179.30. The request to restore the Executive Director's authority is in case additional construction changes are needed.

SUMMARY (Cont'd)

Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility
Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original
Delegated Authority, and Approve Changes in Total Contract Cost

CONTRACT COST CHANGES

CONTRACT	AMOUNT	PERCENT INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original	\$317,364.00		Commission	20.2%
Change Order One	\$30,507.00	10%	Executive Director	0%
Change Order Two	\$4,758.50	1%	Executive Director	0%
Change Order Three	\$13,555.20	4%	Executive Director	0%
Change Order Four	\$40,000.00	13%	Request of Commission	0%
Total Change Orders	\$88,820.70	28%		0%
TOTAL	\$406,184.70			15.8%

The request to increase the contract's total contract cost is due to the four change orders increasing costs beyond that budgeted.

RESOLUTION

Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original Delegated Authority, and Approve Changes in Total Contract Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Change Order Four to Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, with Next Electric, Inc., in an amount not to exceed \$40,000, for a total amended contract total \$406,184.70, and that the Executive Director's original delegated authority is restored.



O&M Budget Fiscal Note

RELATING TO:

Change Order Four, Contract J06026C01, Jones Island Water Reclamation Facility Nonhazardous Site Lighting Upgrade, Restore the Executive Director's Original Delegated Authority, and Approve Changes in Total Contract Cost

Cost Center: Planning, Research and Sustainability _____	Line Item: 649 _____
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Line Item Impact			
2019 Original Budget	\$1,051,000		
Carryovers or Transfers	\$0		
Adjusted Budget	\$1,051,000		
Estimated Annual Expenditure including Request	\$1,051,000		
Anticipated Year End Balance	\$0		
Actual Year to Date Expenditures Through 5/14	\$95,704		
For unfavorable Year End Balance, identify funding source:			
	<input type="checkbox"/>	Absorbed within the Division	
	<input type="checkbox"/>	Other Division	
	<input type="checkbox"/>	Unallocated Reserve	
Anticipated Expenditure Timing	Requested Expenditures	Anticipated Savings/Revenues	Net Fiscal Impact
Current Year (2019)	\$40,000	\$0	\$40,000
Subsequent	\$0	\$0	\$0
Total Cost	\$40,000	\$0	\$40,000

Comments:

Budget Review by:	Date
Christine Durkin _____	5/14/2019 _____



COMMISSION FILE NO: 19-082-6 **DATE INTRODUCED:** June 10, 2019

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

SUMMARY:

The Commission is requested to authorize the Executive Director to approve 11 projects, G98005P07 Change Order 1; G98005P10 Change Order 1; G98005P11 Change Order 1; G98005P18; G98005P19; G98005P24; G98005P34; G98005P37; G98005P38; G98005P39; and W96001P35 Change Order 1 under the 2019 Green Solutions Program and Zoo Interchange Funding in a total amount not to exceed \$3,137,677. The 2019 Green Solutions Program funding was allocated in the approved 2019 Capital Budget. Additional funding is provided by a memorandum of understanding with the Wisconsin Department of Transportation (WisDOT) for stormwater management related to the Zoo Interchange Reconstruction Project approved by the Commission in June 2013. WisDOT provided funding to the District at that time for the design and construction of facilities within the Menomonee River Watershed to reduce the volume and rate of stormwater runoff and to stabilize streambanks.

The primary goal of the Green Solutions Program is to support the District's recently issued Wisconsin Pollutant Discharge Elimination System permit target of providing green infrastructure (GI) retention capacity of 50 million gallons. Additionally, this program helps to form mutually beneficial partnerships to generate quantitative data on the effectiveness of GI in managing stormwater runoff in the District's service area and qualitative data on the implementation and feasibility of various GI practices. This program also supports the District's 2035 Vision and implementation of the Regional GI Plan.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

*OP_2019_Green_Solutions_Program_legislative_file.docx
05-24-19*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

The following projects and partners are recommended for funding and are requested for Commission approval:

Project Name	Applicant	Additional/ New Amount \$ (plus total cost)	Project Number
Bradley Road Bioswales	City of Milwaukee	\$118,331 (total project cost now \$580,000)	G98005P07 Change Order 1
Lakeshore Resilience	City of Oak Creek	\$249,714 (total project cost now \$583,858)	G98005P10 Change Order 1
Mequon Civic Campus Parking Lot	City of Mequon	\$116,480 (total project cost now \$355,763)	G98005P11 Change Order 1
West Dakota Street Porous Pavement	City of Milwaukee	\$174,000	G98005P18
West Brown Deer Road Bioswales	City of Milwaukee	\$350,000	G98005P19
Milwaukee Public Schools (MPS) Hawley Road Environmental Studies Elementary School	City of Milwaukee (MPS)	\$261,250	G98005P24
Bay Lane Drive	City of Muskego	\$225,325	G98005P34
Canal Street Bioretention	City of Milwaukee	\$458,440	G98005P37
Wauwatosa Police Station *	City of Wauwatosa	\$200,000	G98005P38
Wauwatosa 2020 Green Alleys	City of Wauwatosa	\$550,000 (\$283,238 from 2020 funding)	G98005P39
Wauwatosa Police Station *	City of Wauwatosa	\$434,137 (total project cost now \$1,034,137)	W96001P35 Change Order 1
	Total Additional/New \$	\$3,137,677	

*These entries refer to the same project with dual funding sources: Green Solutions and Zoo Interchange.

These projects are summarized below.

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

Bradley Road Bioswales, submitted by City of Milwaukee (G98005P07 Change Order 1)

This project will install 24 bioswales about 18,000 square feet in size in the terraces of West Bradley Road. The terraces will be excavated to install a 1.5-foot-deep layer of engineered soil over a four-inch-thick bedding layer and a two-foot-deep storage area of 1.5-inch clean washed stone. The washed stone will be installed below the engineered soil to capture and store stormwater. The bioswales will be landscaped with native plants. The change order is to fund the remainder of the project.

Location: West Bradley Road, between North 51st Street and North 124th Street, Milwaukee, WI

Gallons Captured: 107,712

GI Strategy: Bioswales

Lakeshore Resilience, submitted by City of Oak Creek (G98005P10 Change Order 1)

The project will create a stable slope using GI to improve resilience as the lake levels fluctuate over time. The design includes 445,720 square feet of native landscaping. The native plantings will be selected to provide habitat in a migratory bird flyway and have deep root systems to stabilize the slope. The change order is to fund much of the remainder of the project.

Location: Along the Lake Michigan shoreline, north of East Depot Road, Oak Creek, WI

Gallons Captured: 178,288

GI Strategy: Native Landscaping

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

Mequon Civic Campus Parking Lot, submitted by City of Mequon (G98005P11 Change Order 1)

The Mequon Civic Campus serves as one of the stormwater collection points leading to the discharge location under Cedarburg Road and ultimately to the Milwaukee River. In 2017, Mequon used Green Solutions funding to enhance the drainageway by constructing a bioswale with native landscaping leading to the cross-road culvert discharging toward the river. The Civic Campus parking lot project will look to enhancement the drainageway. The project will include a minimum of 14,000 square feet of porous pavement. The change order is to fund the remainder of the project.

Location: Northwest corner of Mequon Road and Cedarburg Road, Mequon, WI
Gallons Captured: 42,000
GI Strategy: Porous Pavement

West Dakota Street Porous Pavement, submitted by City of Milwaukee (G98005P18)

This project will replace approximately 5,400 square feet of pavement with porous pavement. The six-foot-wide parking lanes on both sides of West Dakota Street will be removed to install porous pavers. The pavers will be installed over a six-inch washed bedding layer and a one-foot deep storage area of 2.5-inch clean washed stone to capture and store stormwater. The porous paver areas are approximately one-third of the tributary areas and will remove approximately 55% of the total suspended solids.

Location: West Dakota Street, between South 11th Street and South 13th Street, Milwaukee, WI
Gallons Captured: 20,360
GI Strategy: Porous Pavement

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

West Brown Deer Road Bioswales, submitted by City of Milwaukee (G98005P19)

This project will install approximately 5,500 square feet of bioswales in the median areas of West Brown Deer Road. The terraces will be excavated to install a 1.5-foot-deep layer of engineered soil over a four-inch-thick bedding layer. A two-foot-deep storage area of 1.5-inch clean washed stone will be installed below the engineered soil to capture and store stormwater. The bioswale areas are approximately 7% to 10% of the tributary areas and will remove approximately 70% to 80% of the total suspended solids.

Location: West Brown Deer Road, between North 95th Street and North 124th Street, Milwaukee, WI
Gallons Captured: 82,643
GI Strategy: Bioswales

MPS Hawley Road Environmental Studies Elementary School, submitted by City of Milwaukee (MPS) (G98005P24)

This project will install a 20,000-gallon cistern, four stormwater trees, 3,600 square feet of native landscaping, and 770 square feet of bioswales at MPS's Hawley Road Environmental Studies Elementary School. The project will also reduce the impervious cover at the site from 0.52 acres (91%) to 0.08 acre (14%).

Location: 5610 W. Wisconsin Avenue, Milwaukee, WI
Gallons Captured: 47,315
GI Strategy: Bioswales, Cistern, Stormwater Trees, Native Landscaping

Bay Lane Drive, submitted by City of Muskego (G98005P34)

This project will create a green space at the downstream end of a storm sewer network to comply with stormwater quality and quantity regulations using a meandering grass swale, native landscaping, and a detention pond. Approximately, 7,766 square feet of floodplain seed mix will be used, along with 12,934 square feet of shortgrass prairie seed mix.

Location: Lot 2 Certified Survey Map 9957, on the northeast corner of Bay Lane Drive and Woods Road intersection, Muskego, WI
Gallons Captured: 8,280
GI Strategy: Bioswales and Native Landscaping

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

Canal Street Bioretention, submitted by City of Milwaukee (G98005P37)

Milwaukee constructed a one-acre bioretention facility at North 25th Street and West Canal Street in 2006 to treat approximately 26 acres of West Canal Street tributary area and provide 80% total suspended solids reduction. Milwaukee will completely rehabilitate the facility, as it has not been functioning as designed, because no infiltration was occurring. As part of the project, the existing bioretention bed will be removed to install a new 42-inch-deep layer of engineered soil composed of 70/30 ratio of sand to compost on the existing clay-lined bed. Stormwater runoff from the tributary area will enter the bioretention bed from the existing forebay. When completed, the bioretention will be landscaped with native plants.

Location: North of West Canal Street, west of North 25th Street, Milwaukee, WI
Gallons Captured: 960,000
GI Strategy: Bioswales

Wauwatosa Police Station, submitted by City of Wauwatosa (G98005P38 and W96001P35 Change Order 1)

This project will replace approximately 0.5 acre of pavement with porous pavement. Both pavers and porous asphalt are being considered. An upsized, two-foot-deep gravel storage layer will be laid under the porous pavement to store all the runoff from a one percent probability storm. Depending on soil conditions, water will either infiltrate the native soils or be routed by an underdrain to the storm sewer system. Wauwatosa will install smart controls at an outlet structure to strategically release flow at dry times and hold water back during rain events, and that cost element is included in the project.

Location: 1700 North 116th Street, Wauwatosa, WI
Gallons Captured: 65,340
GI Strategy: Porous Pavement

SUMMARY (Cont'd)

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

Wauwatosa 2020 Green Alleys, submitted by City of Wauwatosa (G98005P39)

This project will renovate five alleys to green alleys. Each green alley will consist of an approximately 12-foot-wide strip of porous pavers down the center of the alley totaling 16,590 square feet of porous pavers. Surface water flow will drain through the voids in the pavers to an aggregate storage area beneath. Depending on soil conditions, water will either infiltrate the native soils or be routed by an underdrain to the storm sewer system. An observation well will be installed at each alley, which will be inspected quarterly and after extreme events to evaluate whether the subbase layer is properly draining. Note, this project is being proposed with the use of 2020 Green Solutions funding. Until 2020 Capital Budget is adopted, the level of funding for the City of Wauwatosa is unknown, and the City is committing to the proposed project at its own risk.

Location: Wauwatosa, WI

- Hadley Street to Center Street, 73rd Street to 74th Street (east-west leg)
- Hadley Street to Center Street, 73rd Street to 74th Street (north-south leg)
- Center Street to Clarke Street, 67th Street to 68th Street
- Meinecke Avenue to North Avenue, 66th Street to 67th Street
- Meinecke Avenue to North Avenue, 67th Street to 68th Street

Gallons Captured: 58,065

GI Measures: Porous Pavement

RESOLUTION

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to approve 10 projects under the 2019 Green Solutions Program and Zoo Interchange Funding: G98005P07 Change Order 1; G98005P10 Change Order 1; G98005P11 Change Order 1; G98005P18; G98005P19; G98005P24; G98005P34; G98005P37; G98005P38; and G98005P39, and that the Executive Director is directed to execute contracts and agreements for projects in a total amount not to exceed \$2,703,540.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to approve one project, the Wauwatosa Police Station, under the Zoo Interchange Funding, W96001P35 Change Order 1, and that the Executive Director is directed to execute contracts and agreements for that project in a total amount not to exceed \$434,137 from this funding source.



**Capital Budget Fiscal Note
Total Project Cost**

RELATING TO:

Approval of 2019 Green Solutions Program Projects G98005P07 Change Order 1, G98005P10 Change Order 1, G98005P11 Change Order 1, G98005P18, G98005P19, G98005P24, G98005P34, G98005P37, G98005P38, G98005P39, and W96001P35 Change Order 1

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:
<u>G98005</u>	<input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input type="checkbox"/> New Project <input checked="" type="checkbox"/> No Change

<u>Total Project Cost Analysis</u>	<u>Project Costs</u>
Adopted 2019 Total Project Cost	*
Previously Approved Changes	\$0
Approved Total Project Cost	*
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0

Action to be taken to Long-Range Financing Plan to address Total Project Cost change

_____ Transfer from Allowance for Cost and Schedule Changes

_____ Transfer from another project (specify in comments)

_____ Delay Project(s) (specify in comments)

_____ Delete Project(s) (specify in comments)

_____ Other _____

_____ Transfer to Allowance for Cost and Schedule Changes

Comments

*The Green Solutions Program does not have a total project cost because it is a capital program. The 2019 Capital Budget has \$5,000,000 for 2019 and the long-range financing plan includes \$30 million. The 2019 Capital Budget and the long-range financing plan have sufficient funding for the current request of \$2,703,540.

Budget Review by:	Date:
<u>Christine Durkin</u>	<u>5/15/2019</u>

June 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						<i>1</i>
<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
<i>9</i>	10 Operations Committee-9:00 a.m. PF&P Committee- 9:05 a.m.	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>
<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>
<i>23</i>	24 Commission-9:00 a.m.	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>
<i>30</i>						