



Board of Directors Meeting

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March 28 2024

9:30 a.m.

Agenda

Board Members

Shelley Heller
Chair

Hon. Frederic N. Smalkin
Secretary

Brendon Baatz
Treasurer

Robert L. Witt, II
Chair, HR Committee

Moalie Jose, P.E.
Chair, Audit Committee

James H. Johnson Jr.,
Ph.D., P.E.

Dereck E. Davis
State Treasurer

Charles C. Glass, Ph.D.,
P.E.
Executive Director

Call to Order	Shelley Heller
Approval of Minutes – February 29, 2024	Shelley Heller
Executive Director’s Report	Ellen Frketic
Employee Survey Results	Jeff Tosi
New Business Report	Managing Directors
Financial Update	Hament Patel
Human Resources Report	Stephanie Patton
Procurement	Winsome Condra
Procurement Items (attached)	
• Item 1: Dorsey Run WWTP biosolids beneficial reuse, Padlands LLC (CO1)	
• Item 2: Pt. Lookout State Park repair damaged campsites, Stormwater Management Solutions, LLC (CO2)	
• Item 3: ECI Co-Gen boiler conversion, W.M. Schlosser Co., Inc. (CO4)	
• Item 4: ECI Co-Gen boiler conversion, W.M. Schlosser Co, Inc. (CO5)	
• Item 5: Baltimore County Stormwater mapping, Rummel, Klepper & Kahl	
• Item 6: SHA District 3 & 5 stormwater drainage construction, AB Construction, Inc.	
• Item 7: SHA District 4 & 7 stormwater drainage construction, Brawner Builders, Inc.	
• Item 8: MDE Floodplain mapping, WSP USA Environment & Infrastructure, Inc.	
• Item 9: MEA energy technical & engineering analysis, Energy Shrink, LLC	
• Item 10: SHA EISD Task 7, Synergy Systems & Services, Inc.	
• Item 11: BWI Airport leasing of portable liquid storage tanks	
• Item 12: BWI Airport glycol recovery vehicle leasing	
• Item 13: Poplar Island DMCF excavator purchase, McClung Logan Equipment Company	
• Item 14: Brown Station Landfill leachate hauling, Agri-Services Corp (CO3)	
Procurement Notifications	

Maryland Environmental Service
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Legal Report

Sean Coleman

New/Old Business

Shelley Heller

Closed Session

Sean Coleman

Adjournment

Shelley Heller

Change Order Approval
PROCUREMENTS, CONTRACTS, PURCHASE ORDERS,
AMENDMENTS, AND CHANGE ORDERS
FOR
BOARD OF DIRECTORS' APPROVAL

March 28, 2024

Item: 1

Type: Services over \$200,000

Group & Division: Water/Wastewater Group, Engineering Services Division

MES Contract Number: 1-23-2-43-5

Project Name: Beneficial Reuse Services for Dewatered, Lime Stabilized Biosolids, Dorsey Run Advanced WWTP

Title/Description: Trucking and land application services for Dorsey's biosolids

Original Procurement Method: Competitive Sealed Bid

Contractor: Padlands LLC

Original Term: One Base Year June 1, 2023-May 31,2024

Modified Term: First option year June 1, 2024 – May 31, 2025

Original Amount: \$ 142,500

Modifications to Date: \$ 0

Amount of this Change Order #1: \$ 146,775

Revised Total Contract Amount: \$ 289,275

Client/Fund Source: State of Maryland (DPSCS)/ Operating Budget

MBE Participation: Goal: 23%, Participation achieved to date: 66.8%

Remarks: This change order is for the first option year contract renewal (second year of contract) for the hauling and beneficial reuse of dewatered, lime stabilized biosolids from the Dorsey Run Advanced WWTP. In the agreement the Contractor, Padland's LLC, hauls and land applies the dewatered, lime stabilized biosolids on permitted agricultural land in Virginia using the subcontracted MBE certified firm Recyc Systems Inc.



**BIOSOLIDS LOADING INTO
CONTRACTOR'S PARKED
TRAILER AT DORSEY RUN WWTP**



**LAND APPLICATION OF TREATED
BIOSOLIDS AT FARM IN VIRGINIA**

Change Order Approval

**PROCUREMENTS, CONTRACTS, PURCHASE ORDERS,
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BOARD OF DIRECTORS' APPROVAL**

March 28, 2024

Item: 2

Type: Construction over \$200,000

Group & Division: Water and Wastewater Group, Engineering Services Division

MES Contract Number: 1-23-2-15-5

Project Name: Point Lookout State Park Water and Sewer System Improvements

Title/Description: Restoration of damaged campsites to their pre-existing conditions.

Original Procurement Method: Competitive Sealed Bid

Contractor: Stormwater Management Solutions, LLC

Original Term: 730 days

Modified Term: NA

Original Amount: \$8,999,999.00 (BOD Item 12, approved 1/26/22)

Modifications to Date: CO 1: \$3,118,942.87 (BOD Item 10, approved 8/24/23)

Amount of this Change Order: \$326,643.03

Revised Total Contract Amount: 12,445,584.90

Client/Fund Source: State of Maryland (DNR)/Natural Resources Development Fund of FY 24 POS/Item 004 (PCA 12269 - \$326,643.03)

MBE Participation: Goal: 19%, Participation achieved to date: 20.5 %

Remarks: The project consists of the replacement and/or rehabilitation of the water and sanitary sewer system piping network within the park. During the construction, the native soils could not meet compaction requirements due to consistency and moisture content. These materials were considered unsuitable and needed to be stockpiled for disposal. Due to the volume of unsuitable soil, the campsites adjacent to the work were used for storage. This change order will restore those 27 campsites to preconstruction condition. With this Change Order, the Contractor has committed to maintaining the MBE participation at the original goal of 19%.

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Item: 3
Type: Construction: over \$200,000
Group & Division: Environmental Operations
MES Contract Number: 1-22-4-07-5R
Project Name: ECI Cogeneration Plant Boiler Fuel Conversion
Title/Description: Extend utility equipment rentals to allow completion of boiler fuel conversion.

Original Procurement Method: Competitive Sealed Bid

Contractor: W.M. Schlosser Co., Inc.

Original Term: 190 calendar days from NTP – November 19, 2022

Modified Term: 281 additional calendar days – August 30, 2024

Original Amount: \$9,895,000 (BOD Item 10, 3/31/2022; *BPW Item 12, 5/11/2022*)

Modifications to Date: CO #1: \$0; 228 additional calendar days – July 5, 2023
CO #2: \$3,266,468.77; 141 additional days – November 23, 2023
(BOD Item 5, 3/30/2023; *BPW Item 16, 5/3/2023*)
CO #3: \$25,799.53; 0 additional days – November 23, 2023

Amount of this Change Order #4: \$1,545,862.00

Revised Total Contract Amount: \$14,733,130.30

Client/Fund Source: State of Maryland (DPSCS)/ECI Co-Gen Operating Budget

MBE Participation: Goal = 17%, Participation to date = 15.1%*

Remarks: WMS has converted the fuel source for both existing high-pressure boilers from wood chips and No. 2 fuel oil to natural gas and No. 2 fuel oil. At the culmination of their construction efforts, which included modification to the internal boiler configuration and boiler room, the boiler Original Equipment Manufacturer (OEM) began start-up testing of newly installed burners. They found that the Induced Draft (ID) fan created air flow and draft conditions

inside the modified boiler that could not be controlled to allow reliable and repeatable light-off conditions. Following troubleshooting and testing, the OEM and MES' engineering consultant determined that the ID fan must be replaced to finish the start-up testing and advance to full commissioning of the burner.

As a result, WMS is unable to complete their final testing and inspections which are dependent on the completion of the OEM's start-up and commissioning of the new burners. Due to this overlap in responsibilities, inability to use the Cogeneration Plant's boilers, and time needed to procure and install a new ID fan, the critical functions of the ECI Cogeneration Plant for the Institution's kitchen and hot water needs are served by a rental boiler and a pair of rental diesel generators to supply a backup source of power in the event electric power from the local utility company is lost. This rental equipment must stay on-site for the duration of this work.

* Based on the MBE forecast provided by WMS from their last invoice, the next invoice will satisfy the 17% MBE goal before this change order. Due to the specialized nature of the rental utility equipment, there are limited MBE subcontracting opportunities which equal \$31,461.72 for this Change Order.

Burner on Boiler #2



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Item: 4

Type: Construction over \$200,000

Group & Division: Environmental Operations

MES Contract Number: 1-22-4-07-5R

Project Name: ECI Cogeneration Plant Boiler Fuel Conversion

Title/Description: Perform additional conversion activities based on discovery during the ECI Cogeneration Plant boiler and room modifications.

Original Procurement Method: Competitive Sealed Bid

Contractor: W.M. Schlosser Co., Inc.

Original Term: 190 calendar days from NTP – November 19, 2022

Modified Term: 0 additional calendar days – August 30, 2024

Original Amount: \$9,895,000 (BOD Item 10, 3/31/2022; *BPW Item 12, 5/11/2022*)

Modifications to Date: CO #1: \$0; 228 additional calendar days – July 5, 2023
CO #2: \$3,266,468.77; 141 additional days – November 23, 2023
(BOD Item 5, 3/30/2023; *BPW Item 16, 5/3/2023*)
CO #3: \$25,799.53; 0 additional days – November 23, 2023
CO #4: \$1,545,862.00; 281 additional days – August 30, 2024
(BOD Item 3, 3/30/2024)

Amount of this Change Order #5: \$208,653.00

Revised Total Contract Amount: \$14,941,783.30

Client/Fund Source: State of Maryland/ECI Co-Gen Plant Boiler Fuel Conversion – DGS Deficiency Funding

MBE Participation: Goal = 17%, Participation to date = 15.1%*

Remarks: In the course of conversion activities, additional items were identified to be required that were not part of the original scope. This change is necessary

because 1) unexpected site conditions were discovered during demolition that requires different supports for the fuel rack skids; 2) replacement of abandoned louvers with welded caps at the boiler stacks is needed to provide a seal against the potential for escaping flue gases; 3) rebuilding of the feedwater valve manifolds with all flanged valves due to an increase on future difficulty to perform maintenance after the addition of structural steel for the new burner platforms; 4) the demolished ladder access to the boiler room roof cannot be restored as planned and requires the installation of a new ladder based on an updated design that was not a part of the original construction documents; 5) changes from the factory to the burner equipment and Human Machine Interface (HMI) programming supplied by a separate contract created the need to change field wiring and the integrated HMI controls for proper equipment communication and operation; and 6) cost credits totaling \$21,967 for work that no longer needs to be performed based on alternate approved materials or discovery during the internal boiler modifications.

*Based on the MBE forecast provided by WMS from their last invoice, the next invoice will satisfy the 17% MBE goal before this change order. There are no MBE subcontracting opportunities for this Change Order.

Boiler #2 new internal floor



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Item: 5

Type: Services over \$200,000

Group & Division: Technical Environmental Services

MES Contract Number: TBD

Project Name: Baltimore County Stormwater Mapping and Condition Assessment Services

Title/Description: Field data collection and condition assessment of stormwater infrastructure within the Anneslie neighborhood of Baltimore County. Desktop hydrologic and hydraulic conditions to assist with green and grey infrastructure improvements.

Procurement Method: GIS & Associated Services Shortlist

Bids/Proposals: N/A

Awarded To: Rummel, Klepper & Kahl, LLP (RK&K)

Amount: \$465,297.17

Term: Notice to Proceed through December 31, 2024

Client/Fund Source: Baltimore County / MOU 2-20-3-25

MBE Goal: 45.20%

Remarks: RK&K will develop hydrologic and hydraulic models of drainage and roadway networks using PCSWMM Professional 2D model. The team will model inland flooding considering predicted/future potential storm events using the precipitation change factors from MARISA. The team will analyze registered drainage complaints and county work orders within the drainage area to be used by the County in the likelihood of failure (LoF) analysis.

Additionally, the team will conduct asset inspections on all public stormwater structures and roadway segments within the delineated drainage areas associated with the Anneslie neighborhood. These

inspections will be conducted within the Cityworks application as provided by the County. CEM will separately collect top elevations of all stormwater structures within the drainage areas, and at every quarter of swales or channels.



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Item: 6

Type: Construction over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: 1-24-3-52-3

Project Name: Stormwater Drainage Construction SHA Districts 3 & 5

Title/Description: Provide labor, materials, and equipment necessary to provide on-call and as-requested maintenance, repairs, and construction of new drainage structures or components at various locations within SHA Districts 3 (Montgomery and Prince George's Counties) and 5 (Anne Arundel, Calvert, Charles, St. Mary's Counties).

Procurement Method: Competitive Sealed Bid

Bids/Proposals:

AB Construction, Inc.	\$8,646,322.88
Brawner Builders, Inc.	\$8,859,996.00
Concrete General, Inc.	\$10,366,555.00

Awarded To: AB Construction, Inc.

Amount: \$8,646,322.88

Term: Two years from the date of NTP with three, 1-year option renewals

Client/Fund Source: State Highway Administration (SHA)/ IGA 2-23-3-30

MBE Goal: 14%

Remarks: This contract will provide contractor support to SHA and MDTA in the areas of drainage remediation, stormwater management and rehabilitation, as well as construction and improvements specifically related to roadway drainage.



MD-2 Rescue (erosion repair)



MD-2 Rescue (final)

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Item: 7

Type: Construction over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: 1-24-3-53-5

Project Name: Stormwater Drainage Construction SHA Districts 4 & 7

Title/Description: Contractor to provide labor, materials, and equipment necessary to provide on-call and as-requested maintenance, repairs, and construction of new drainage structures or components at various locations within SHA Districts 4 (Baltimore and Harford Counties) and 7 (Carroll, Frederick, and Howard Counties).

Procurement Method: Competitive Sealed Bid

Bids/Proposals: Brawner Builders, Inc. \$8,392,286.00
Concrete General, Inc. \$8,587,110.04
Stormwater Maintenance LLC d/b/a SMC \$16,899,568.40

Awarded To: Brawner Builders, Inc.

Amount: \$8,392,286

Term: Two years from the date of NTP with three 1-year option renewals

Client/Fund Source: State Highway Administration (SHA)/ IGA 2-23-3-30

MBE Goal: 14%

Remarks: This contract will provide contractor support to SHA and MDTA in the areas of drainage remediation, stormwater management and rehabilitation, as well as construction and improvements specifically related to roadway drainage.



795 Emergency Repair (initial photo)



795 Emergency Repair (updated photo and currently active)

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Item: 8

Type: Services over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: 1-19-3-30-3

Project Name: MDE Howard Floodplain Mapping Phase II

Title/Description: Floodplain mapping assistance within Howard County, MD in support of MDE's National Flood Insurance Program requirements.

Procurement Method: GIS & Associated Services Shortlist

Bids/Proposals: N/A

Awarded To: WSP USA Environment & Infrastructure Inc

Amount: \$ 360,377

Term: Notice to Proceed through 12/31/2025

Client/Fund Source: Maryland Department of the Environment/ BPO # U00B4600009

MBE Goal: 19.4%

Remarks: This contract will provide the Water Science Administration's Stormwater, Dam Safety and Floodplain Management (SDF) Program with Floodplain Mapping, Preliminary Issuance, and Post Preliminary Production tasks for Howard County, MD, and Incorporated Areas. This work is part of an ongoing effort to update floodplain related data throughout the State.

Such data is used to update the mdfloodmaps Flood Risk Application, which acts as an outreach tool to inform the public of floodplain extents and impacts.

MARYLAND DFIRM Outreach Flood Risk Application MDE MDE Firm Outreach Help

Find address or place

Layer List

Operational layers

- County Status
- LOMAs
- LOMRs
- Preliminary CSLF
- Active Road Closures
- Preliminary Floodplain
- Effective Floodplain
- Non-Regulatory Risk MAP Products
- Water Surfaces

(1 of 3)

County Status: Howard

NAME	Howard
CountyCode	24027C
FEMA STATUS	EFFECTIVE
PrelimDate	10/2023
TenAdoptiv	TBD
Contact	Mark Richmond
Phone	410-313-6444
Email	msrichmond@howardcountymd
Study Type	Riverine
HecRas	More info

Zoom to

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Item: 9

Type: Services over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: 1-24-3-45-8

Project Name: Maryland Energy Administration (MEA) - energy technical & engineering analysis of Commercial, Industrial, Institutional & Governmental Energy Programs

Title/Description: Provide energy technical and engineering analysis services to support the development and implementation of energy programs implemented by the Maryland Energy Administration (MEA) using primarily state funding sources. Energy technical and engineering analysis services will be provided to the subject matter area (SMA) of Commercial, Industrial, Institutional, and Government Energy Programs.

Procurement Method: Task Based Request for Proposals

Bids/Proposals: AECOM Technical Services Inc.
Energy Shrink, LLC
GDS Associates, Inc.
ICF Incorporated, LLC
Prime Partners Engineering LLC
Spectrum Energy LLC

Awarded To: Energy Shrink, LLC

Amount: \$3,755,000 (\$1,875,000 initial 2-year term, plus two 1-year option years at \$940,000 each year)

Term: 2 years from date of NTP, plus two 1-year option years

Client/Fund Source: MEA Task 23 Energy Technical & Engineering Analysis Contract and Task Assignment Management (IGA 2-17-3-84)

MBE Goal: 29%

Remarks:

The Contractor will provide the requested technical assistance to MES and MEA on a task assignment basis in support of MEA's Commercial, Industrial, Institutional, and Governmental Energy Programs, focusing on energy efficiency, renewable energy electricification, energy resiliency, energy storage, and clean transportation.



(Image taken from: <https://energy.maryland.gov/business/pages/incentives/cleanenergygrants.aspx>)

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Item: 10

Type: Services over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: TBD

Project Name: State Highway Administration (SHA) EISD Task 7 -
Transportation Model Mapping and Support

Title/Description: Synergy and its team would provide Data Collection, Data Analytics, Subject Matter Expert and Program support for the Data Services Division. Synergy and its team would also provide as-needed GIS services, Asset Management Professional Services & Business Analysis services.

Procurement Method: GIS SBR Shortlist

Bids/Proposals: N/A

Awarded To: Synergy Systems & Services Inc.

Amount: \$450,509.64

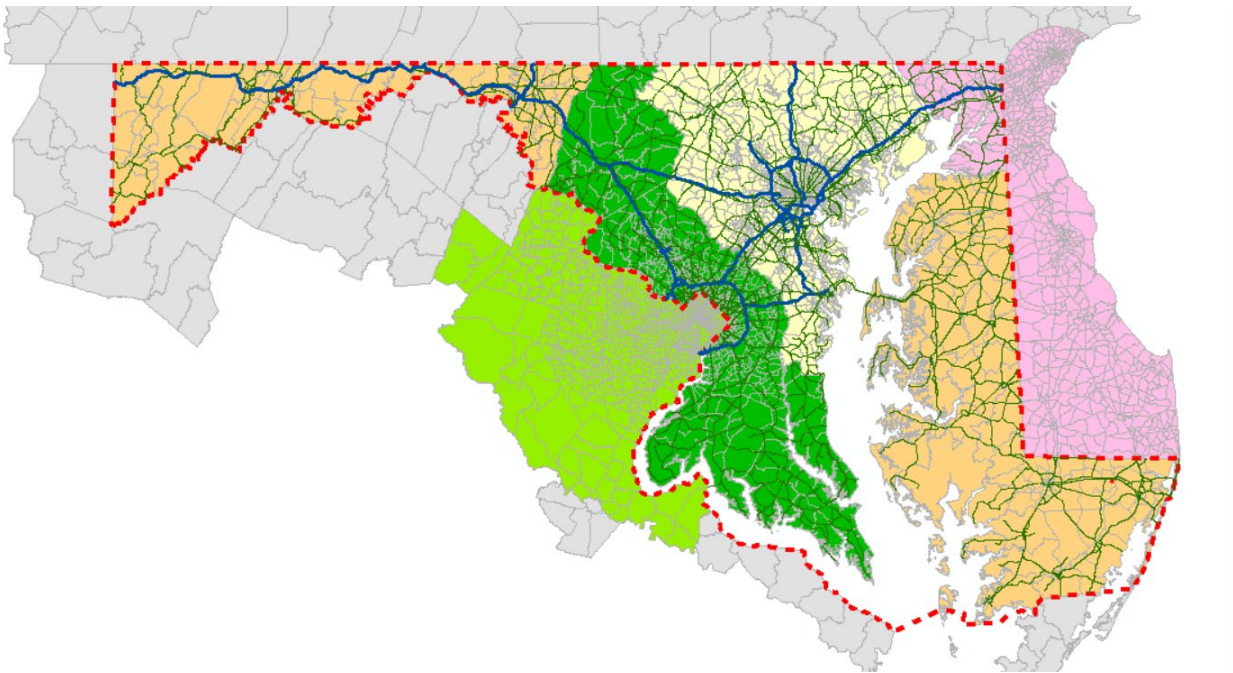
Term: Notice to proceed through December 31, 2024

Client/Fund Source: SHA/ SHA Contract # P02383 G- 1 (MES IGA 2-24-3-46)

MBE Goal: 29.42% (Prime is an MBE)

Remarks: Collects, analyzes, validates, and publishes spatial and tabular traffic data for the State of Maryland. This data is used throughout the State by State, local, Federal agencies and the public. One of the main uses of the data is to help identify congestion and unreliable travel and produce alternatives to create a normal flow of traffic, reducing extra fuel wasted and emissions produced from the starting and stopping of rush hour traffic. Reducing severe congestion can positively impact both greenhouse gases and other air pollutants.

Maryland Statewide Transportation Model



The MSTM is a multi-layer travel demand model that will be updated as part of this task with traffic monitoring data, helping SHA to document and establish procedures for modeling air and noise pollution associated with traffic patterns and congestion.

Pre-Solicitation Approval
PROCUREMENTS, CONTRACTS PURCHASE ORDERS,
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March 28, 2024

Item: 11

Type: Services over \$200,000

Group & Division: Technical and Environmental Services

MES Contract Number: TBD

Project Name: Amazon; BWI Deicing; BWI Potassium Acetate Tanks

Title/Description: Leasing of Portable Liquid Storage Tanks / This contract will provide for the leasing of portable liquid storage tanks. The tanks will be located at BWI Thurgood Marshall Airport (BWI) and will be used to store recovered waste aircraft deicing fluid, and runway deicers.

Procurement Method: Competitive Sealed Bid

Advertising Date: TBD

Estimate: \$450,000

Client/Fund Source: (Multiple) Amazon (2-23-3-39), BWI Deicing (2-20-3-81), BWI Potassium Acetate Tanks (2-20-3-80)

MBE Goal: 0% - No MBE subcontracting opportunities

Remarks: The Maryland Aviation Administration (MAA) is required by the Federal Aviation Administration to store ample amounts of runway and taxiway deicing chemicals on site. MES, on behalf of MAA, stores collected water aircraft deicing fluid in liquid storage tanks until the fluid can be hauled off-site or transferred, treated and discharged from the glycol storage facility. The existing liquid storage tank leasing contract expires on June 30, 2024.

Pre-Solicitation Approval
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Item: 12

Type: Services over \$200,000

Group & Division: Technical and Environmental Services.

MES Contract Number: 1-24-3-60-5

Project Name: BWI Deicing

Title/Description: Baltimore Washington International Thurgood Marshall Airport
Glycol Recovery Vehicle Leasing Contract

Procurement Method: Competitive Sealed Bid

Advertising Date: 3/13/2024

Estimate: \$400,000 (1 year)

Client/Fund Source: Maryland Aviation Administration/BWI Deicing (IGA 2-20-3-81)

MBE Goal: 0%

Remarks: Annual lease required to rent Glycol Recovery Vehicles (GRVs) necessary to collect waste aircraft deicing fluid from deicing locations at BWI Airport. The current contract is expiring, and a new contract is required for the next deicing season.



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Item: 13

Type: Equipment purchase over \$200,000

Group & Division: Environmental Dredging and Restoration

MES Contract Number: TBD

Project Name: Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island

Title/Description: Purchase of a 30-Ton Hydraulic Excavator (Super Long Reach Configuration).

Procurement Method: Intergovernmental Cooperative (Sourcewell Contract 011723-VCE)

Bids/Proposals: McClung Logan Equipment Company \$337,792

Awarded To: McClung Logan Equipment Company

Amount: \$337,792

Term: 1-Time Purchase

Client/Fund Source: Maryland Port Administration Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island, Capital Equipment (02-07-20)

MBE Goal: 0% *

Remarks: This purchase would replace a 7-year-old machine that operates in a harsh, corrosive environment. Replacing this machine will also help lower Agency Green House Gas emissions by upgrading to a Tier 4 Final emissions machine with a more efficient engine. Maryland Port Administration (MPA) has approved funding for this purchase in the Fiscal Year 2024 Budget.

*An MBE search was performed for this purchase as well as for previous purchases of heavy equipment. In all searches, no MBEs were found.



Change Order Approval
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Item: 14

Type: Services over \$200,000

Group & Division: Environmental Operations Group

MES Contract Number: 1-21-4-28-5

Project Name: Brown Station Road Sanitary Landfill Leachate Hauling and Disposal Services

Title/Description: Loading, hauling, and disposal services of leachate collected at the respective facility. No quantities of leachate are guaranteed.

Original Procurement Method: Competitive Sealed Bid

Contractor: Agri-Services Corp.

Original Term: 7/1/2021 to 6/30/23 (with 2 additional 3-year optional renewal periods)

Modified Term: Renewal Letter 1 – 7/1/23 - 6/30/26

Original Amount: \$540,000.00 (BOD Item 3, approved 4/29/21)

Modifications to Date: CO #1 – No-cost, change in disposal facility
CO #2 - \$195,062.50

Amount of this Change Order #3: \$250,000.00

Revised Total Contract Amount: \$985,062.50

Client/Fund Source: Prince George's County (IGA #2-21-4-53)

MBE Participation: Goal = 30%, Participation to date = 50.5%

Remarks: This Contract has been active since July 2021. This is a will-call service to haul and dispose of leachate at Brown Station Road Sanitary Landfill. There are no guaranteed minimum or maximum quantities of leachate that will require off-site transport. Based on

the recent site conditions, additional hauling and disposal is necessary.

(Photo Attached)

