

COMMISSION FILE NO: 17-058-6 **DATE INTRODUCED:** June 12, 2017

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Amendment Number One, Contract M01019P01, Development of Air Monitoring Plans for Certain Conveyance and Water Reclamation Facilities Project

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Amendment Number One to Contract M01019P01, Development of Air Monitoring Plans for Certain Conveyance and Water Reclamation Facilities Project, with Symbiont Science, Engineering and Construction, Inc., (Symbiont) in an amount not to exceed \$102,473.

Amendment Number One to Contract M01019P01 includes the extension of the project completion date and changes to the contract scope. The scope includes modeling of the dust collection system in the Dewatering and Drying (D&D) Facility at the Jones Island Water Reclamation Facility.

The D&D Facility has been in service since 1994 and includes equipment that converts sludge to Milorganite® product. The Milorganite® production process includes 12 rotary sludge dryers used to heat-dry dewatered biosolids. The biosolids are transported from the dryers to other processes within the D&D Facility by conveyors and bucket elevators. During the production of Milorganite®, dust is generated and collected through a dust collection system. To ensure that the D&D Facility continues to process biosolids and manufacture Milorganite®, the District has implemented projects to protect against fire and explosion that could result from the presence of the combustible dust.

Since the D&D Facility was originally constructed, there have been two explosions within the facility. While the District has made significant safety improvements since those events, staff evaluates opportunities for risk reduction.

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Amendment Number One, Contract M01019P01, Development of Air Monitoring Plans for Certain Conveyance and Water Reclamation Facilities Project

The purpose of this amendment is to minimize risks associated with dust in the D&D Facility. The work includes development of a model of the dust collection system and analysis of the system. The analysis includes the existing system and the impacts from equipment changes. With the computer modeling of the dust collection system, the District can optimize operation of the dust collection system to minimize fugitive dust and use the model for future projects.

This amendment includes the following work:

- Conduct field surveys to document and measure the dust collection system from individual equipment through the D&D Facility to the bag houses.
- Develop 3D AutoCAD drawings of the dust collection system in the D&D Facility.
- Develop a testing/modeling plan for the D&D Facility.
- Develop a dust collection piping network software model for the D&D Facility using Design Flow Solutions.
- Coordinate D&D Facility dust system operations testing conditions for testing plan activities.

The project has a target completion date of August 31, 2018.

SUMMARY OF CONTRACT COST CHANGES

CONTRACT	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY
Original	\$ 279,523		Commission
Amendment No. 1	\$ 102,473	37%	Request of Commission
TOTAL	\$ 381,996		

RESOLUTION

Amendment Number One, Contract M01019P01, Development of Air Monitoring Plans
for Certain Conveyance and Water Reclamation Facilities Project

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Amendment Number One to Contract M01019P01, Development of Air Monitoring Plans for Certain Conveyance and Water Reclamation Facilities Project, with Symbiont Science, Engineering and Construction, Inc., in an amount not to exceed \$102,473.