



- **Board of Directors**
Engineering, Operations, and Technology Committee

3/12/2024 Board Meeting

7-7

Subject

Authorize an increase of \$320,000 to a purchase order with Total Transportation Logistics Inc. for a new not-to-exceed total amount of \$540,000 for storage of filter valves for the F.E. Weymouth Water Treatment Plant; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Due to the long lead times required to procure specialized equipment, staff often secure critical items before construction. This approach is intended to prevent potential manufacturing or logistical delays from impacting future installation construction contracts. To date, a total of 236 butterfly valves to replace the existing filter valves and actuators at the F.E. Weymouth Water Treatment Plant (Weymouth plant) have been manufactured and delivered to a bonded warehouse owned by Total Transportation Logistics Inc. (TTL) in Mira Loma, California. A purchase order between Metropolitan and TTL for the use of this warehouse was authorized under the General Manager's authority in November 2020. The first 127 units are being installed in Filter Building No. 2 under the ongoing contract to rehabilitate Weymouth Basins Nos. 5-8. The remaining 109 units will replace the filter valves in Filter Building No. 1 under a second contract scheduled to start in fiscal year 2025/26.

Staff recommends increasing the total purchase order amount with Total Transportation Logistics Inc. by \$320,000 for a new not-to-exceed amount of \$540,000 so the new valves can be properly stored until they are needed for the future contract. See **Attachment 1** for the Financial Statement and **Attachment 2** for the Location Map.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize an increase of \$320,000 to a purchase order with Total Transportation Logistics Inc. for a new not-to-exceed total amount of \$540,000 for storage of filter valves for the F.E. Weymouth Water Treatment Plant.

Fiscal Impact: Expenditure of up to \$320,000 in capital funds. Approximately \$25,000 will be incurred in the current biennium and has been previously authorized. The remaining capital expenditures will be funded from future Capital Investment Plan budgets following board approval of the budgets.

Business Analysis: This option will allow the new valves to be safely stored and then furnished to the contractors without the additional cost and risk associated with repeatedly moving the valves before the start of the next contract.

Option #2

Do not authorize an increase to the existing purchase order.

Fiscal Impact: Unknown

Business Analysis: Under this option, staff will relocate equipment to a similar facility. Additional costs would likely be incurred to relocate the equipment and reduce the risk of equipment damage during relocation.

Alternatives Considered

Staff considered relocating the new Weymouth replacement valves to the recently constructed warehouse at the Lake Mathews site, which will store thirteen 54-inch conical plug valves for the ongoing prestressed concrete cylinder pipe (PCCP) rehabilitation projects. However, there is inadequate space in the Lake Mathews facility to store and access both 109 filter valves for Filter Building No. 1 and 13 PCCP valves over the next five years. The 13 PCCP valves are scheduled to be delivered sequentially through 2025 and installed during shutdowns of the Second Lower Feeder and Sepulveda Feeder through the mid-2030s. Staff also considered storing the Weymouth valves at the existing warehouse space at the La Verne site. However, significant modifications are necessary to permit the stacking of equipment to create more storage space. Design is underway to improve the warehouse space at the La Verne site, but it will not be completed in time to store the Weymouth replacement valves. In addition, relocating the new Weymouth valves would result in increased costs from transportation and special protection measures required to reduce the risk of equipment damage during relocation. The selected alternative to amend the existing purchase order with the TTL storage location in Mira Loma, California, provides the best value to Metropolitan with minimum risk of equipment damage and reduced overall project costs. As shutdowns for these two projects are scheduled and the projects progress, staff will consider moving the Weymouth valves to the Lake Mathews site if space becomes available.

Applicable Policy

Metropolitan Water District Administrative Code Section 5108: Appropriations

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

By Minute Item 51014, dated November 14, 2017, the Board awarded two procurement contracts for rubber-lined butterfly valves and actuators and high-performance butterfly valves and actuators for the F.E. Weymouth Water Treatment Plant.

By Minute Item 21997, dated April 11, 2022, the Board appropriated a total of \$600 million for projects identified in the Capital Investment Plan for Fiscal Years 2022/23 and 2023/24.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

On November 10, 2020, the Board approved the Weymouth Filter Valves and Actuators Procurement Contract. The General Manager determined the project to be exempt from CEQA pursuant to State CEQA Guidelines Section 15301. The current board action does not result in any substantial changes to the project. Accordingly, no further CEQA determinations or documentation are necessary.

CEQA determination for Option #2:

None required

Details and Background

Background

The Weymouth plant was placed into service in 1941 with an initial capacity of 100 million gallons per day (mgd) and was expanded twice to its current capacity of 520 mgd. The plant delivers a blend of waters from the Colorado River Aqueduct and the State Water Project to Metropolitan's Central Pool portion of the distribution system and an exclusive service area. The plant is located in the city of La Verne.

The Weymouth plant has 48 filters distributed in two filter buildings. Filters are operated by opening and closing a series of valves, which allow water to flow in and out of the filter beds during filtration and backwashing. Each filter contains five valves, ranging in diameter from 16 inches to 48 inches, which operate in conjunction with several large-diameter isolation valves in the backwash and surface wash systems to control and clean the filters. The existing filter valves and actuators have completed their service life after 55 to 65 years of continuous operation, and their replacement is underway as part of a staged project which will be completed in fiscal year 2028/29.

In November 2017, Metropolitan's Board awarded two procurement contracts to provide 179 steel-body, rubber-lined butterfly integrated valve/actuator units and 57 high-performance butterfly valves. All these valves have been manufactured and delivered to a warehouse near the Weymouth plant. The new valves will be furnished to the contractors responsible for their installation under two contracts. The first 127 units are being installed in Filter Building No. 2 under the ongoing construction contract for the rehabilitation of Weymouth Basins Nos. 5-8. The remaining 109 units will be used to replace the filter valves and actuators in Filter Building No. 1 under a second contract scheduled to start in fiscal year 2025/26.

Valve Storage Services (Total Transportation Logistics Inc.) – Amendment to Purchase Order

Purchase Order No. 199355 with TTL to provide warehouse storage services for the Weymouth filter valves was executed in November 2020 under the General Manager's Administrative Code authority. The existing purchase order is for a not-to-exceed amount of \$220,000 and expires in October 2024. The manufacturer delivered the new valves to a TTL bonded warehouse in Mira Loma, California, approximately 22 miles from the Weymouth plant. Metropolitan pays monthly invoices for the actual square feet occupied by the stored equipment during the billing month. The monthly storage costs have risen as the fabrication of the valves has been completed and storage needs increased. The total amount paid to date for the storage of the Weymouth valves is \$210,000, and an amendment to the purchase order is needed to continue the storage of the valves.

Replacement of the Weymouth filter valves and actuators requires multiple plant shutdowns, which need coordination with member agencies and other construction projects at the Weymouth plant. Due to the staging strategy required to install the new valves, staff anticipates that storage services will be needed until June 2029, which will require an amendment to the storage purchase order that exceeds the General Manager's Administrative Code authority.

This action authorizes an increase of \$320,000 to the existing purchase order with Total Transportation Logistics Inc. for a new not-to-exceed total amount of \$540,000. It is anticipated that the new purchase order amount will be sufficient for storage services for the Weymouth filter valves through June 2029. Due to the specialized nature of the service provided, no Small Business Enterprise participation level was established for this purchase order.

Project Milestone

June 2029 – Completion of filter valve replacement at the Weymouth plant



John V. Bednarski
Manager/Chief Engineer

2/20/2024

Date



Adel Hagekhalil
General Manager

2/23/2024

Date

Attachment 1 – Allocation of Funds

Attachment 2 – Location Map

Ref# es12696141

Allocation of Funds for Weymouth Filter Valve Replacement

	Current Board Action (Mar. 2024)	
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Labor		
Studies & Investigations	\$	-
Final Design		-
Owner Costs (Program mgmt., envir. monitoring)		-
Submittals Review & Record Drwgs.		-
Construction Inspection & Support		-
Metropolitan Force Construction		-
Materials & Supplies		-
Incidental Expenses (valve storage)		-
Total Transportation Logistics Inc.	320,000	
Professional/Technical Services		-
Right-of-Way		-
Equipment Use		-
Contracts		-
Remaining Budget		-
Total	\$	320,000
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The amount expended to date on the filter valve replacement at Weymouth is approximately \$7.7 million. The total estimated cost to complete the replacement of filter valves and actuators, including the amount appropriated to date, funds described in this action, and all future design and construction costs, is anticipated to range from \$16 million to \$18 million.

Distribution System

