



Agenda Date: 4/4/2018  
Agenda Placement: 7C

## Napa Sanitation District Board Agenda Letter

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**TO:** Honorable Board of Directors

**FROM:** Timothy Healy - General Manager  
NS-Technical Services/Engineer

**REPORT BY:** Matthew Lemmon, Senior Civil Engineer - 707-258-6004

**SUBJECT:** Approve Amendment 1 to Task Order 5 to Consolidated CM for the Recycled Water Reservoir Improvements Project (CIP 16716) Construction Management and Inspection

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### **RECOMMENDATION**

Authorize the Purchasing Agent to execute Amendment 1 to Task Order 5 with Consolidated CM for additional construction management and inspection services during construction for the Recycled Water Reservoir Improvements Project (CIP 16716) in the amount of \$69,521.75.

### **EXECUTIVE SUMMARY**

Consolidated CM is providing construction management and inspection services during the construction of the Recycled Water Reservoir Improvements Project.

Amendment 1 is necessary because the original budget anticipated that construction would begin in January 2018 and end in February 2018. The two-month construction timeframe would have required a complete shutdown of the recycled water system for the duration of January and February. Prior to the start of construction, NapaSan worked with the contractor to develop a schedule that utilized a longer construction window to enable at least one of the reservoirs to remain in operation at all times. The modified schedule allowed NapaSan to deliver recycled water to customers during the dry winter months that we experienced in 2018. Construction started in December 2017 and is expected to end in April 2018. Extending the construction period results in additional construction management, inspection, and labor compliance efforts.

Amendment 1 is also necessary because construction change orders resulted in additional work for the construction management and inspection team. The change orders were due to unforeseen circumstances that were encountered during construction. Additional information about the change orders is included in the Background section.

Project costs are eligible for 50 percent reimbursement through a funding agreement that NapaSan secured with the Clean Water State Revolving Fund Green Project Reserve.

### **FISCAL IMPACT**

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	There are sufficient funds in the project budget to cover this task order amendment.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	Consolidated CM is currently providing construction management and inspection for this project.
Is the general fund affected?	Yes
Future fiscal impact:	None.
Consequences if not approved:	District staff will provide management and inspection during construction. District staff does not have significant experience with inspecting welded HDPE reservoir liners. Additionally, this will impact staff's ability to complete other projects.

Additional Information:

### **ENVIRONMENTAL IMPACT**

None.

### **BACKGROUND AND DISCUSSION**

The extended construction schedule is partly due to unexpected site conditions, as described below.

The existing reservoir covers were installed in 2008 and the conditions below the covers had not been inspected since 2008 due to difficulty of access and the impacts to the recycled water customers during system shutdowns. For these reasons, it was not feasible to remove the existing reservoir covers to inspect the conditions during design of the project. The bid documents assumed that the existing concrete and weep holes located below the covers were functioning properly. The plans directed the contractor to terminate the new reservoir liner around the existing weep holes, leaving bare concrete exposed between the liner and the weep holes.

During construction, the existing covers were removed and it was discovered that the existing concrete and weep holes were in need of repair. The repairs were necessary to meet the goals of the project. NapaSan staff directed the contractor to install a welded HDPE pipe penetration boot and a new check valve on each weep hole. The HDPE boot is welded to the new reservoir liner and is covered by the contractor's warranty.

The construction team also encountered unsuitable material that was in excess of what the bid documents anticipated. The unsuitable material presented a change in conditions and construction could not proceed until the

unsuitable material was removed. NapaSan staff directed the contractor to remove the material on a time & materials basis.

**SUPPORTING DOCUMENTS**

A . Amendment 1 - Task Order 5

Napa Sanitation District: Approve

Reviewed By: Timothy Healy