



Agenda Date: 8/7/2019  
Agenda Placement: 7C

## Napa Sanitation District Board Agenda Letter

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**TO:** Honorable Board of Directors

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

**REPORT BY:** Karl Ono, Associate Engineer - (707) 258-6013

**SUBJECT:** Approve Project, Concur with CEQA Determination, and Authorize the General Manager to Issue Notice Inviting Bids for the 2019 Manhole Rehabilitation Project (CIP 20702)

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### **RECOMMENDATION**

Approve Project, concur with staff's CEQA determination that the project is categorically exempt, and authorize the General Manager to issue Notice Inviting Bids for the 2019 Manhole Rehabilitation Project (CIP 20702)

### **EXECUTIVE SUMMARY**

The purpose of this project is to rehabilitate approximately 84 manholes to reduce groundwater infiltration upstream of known sanitary sewer overflow locations. Experience with past projects has shown that manhole rehabilitation can be a cost effective means of reducing wet weather flows by decreasing groundwater infiltration with minimal impacts to residents and businesses. This project will rehabilitate manholes identified by NapaSan staff as active sources of groundwater infiltration during the winter of 2018/19.

Rehabilitation work at each manhole will generally be completed in two phases. First, during the rainy season when groundwater levels are high, active leaks will be stopped by injecting chemical grout. Manholes with infiltration observed in cone, barrel, and/or bench sections will then be rehabilitated with restoration mortar and coating after leaks have been stopped and hydrostatic pressure has been reduced.

A project map is attached.

The engineer's estimate of probable construction cost for the project is \$185,000. The contractor has 180 calendar days to substantially complete the project from Notice to Proceed. Notice to Proceed is expected in October 2019 and construction is expected to be complete by the end of April 2020. District staff will perform construction management and inspection of this project.

Plans are available for review at NapaSan's office and will be available at the Board meeting on August 7, 2019.

### **FISCAL IMPACT**

|                                   |   |
|-----------------------------------|---|
| Is there a Fiscal Impact?         | Yes   |
| Is it currently budgeted?         | Yes   |
| Where is it budgeted?             | The project is budgeted in the FY 2019/20 capital budget.   |
| Is it Mandatory or Discretionary? | Discretionary   |
| Discretionary Justification:      | The project is necessary to increase the longevity of the manholes and reduce groundwater infiltration.   |
| Is the general fund affected?     | Yes   |
| Future fiscal impact:             | None. Construction will be completed in FY 2019/20.   |
| Consequences if not approved:     | Infiltration will continue to enter the collection system from cracks and joints in the manholes and the internal condition of the manholes will continue to deteriorate. The I&I in the project areas will stay at current levels in the collection system and increase over time as the manholes continue to deteriorate. |
| Additional Information:           | None.   |

### **ENVIRONMENTAL IMPACT**

Staff performed a preliminary CEQA review of this project and determined the project is Categorical Exempt. This project consists of rehabilitation of existing systems and/or facilities involving no expansion of capacity, which corresponds to Categorical Exemption 15302 (c) of the California Environmental Quality Act (CEQA) Guidelines. If the Board concurs with this determination, staff will file the attached Notice of Exemption.

### **BACKGROUND AND DISCUSSION**

Three large-scale manhole rehabilitation projects have been completed to date. Results from pre- and post-construction flow monitoring have shown that the cost-effectiveness of manhole rehabilitation alone can be significantly greater than full-system rehabilitation for reducing groundwater infiltration in the collection system. Infiltration in manholes can be observed and recorded relatively easily during regular maintenance activities. Furthermore, the work can be completed independently of other projects and with less impacts to residents and business owners.

NapaSan staff have developed an in-house data collection and monitoring system for manhole condition assessments. Condition assessments are performed by NapaSan Collections Department staff on an ongoing basis and entered into a database that can be queried to identify manholes with active groundwater infiltration. Manholes are then selected for rehabilitation based on their locations and severity of the observed infiltration. The manholes selected for rehabilitation under this project have been identified as active sources of groundwater infiltration and are upstream of historical overflow locations.

**SUPPORTING DOCUMENTS**

- A . Project Area Map
- B . CEQA Notice of Exemption

Napa Sanitation District: Approve

Reviewed By: Andrew Damron