



Agenda Date: 6/21/2017

Agenda Placement: 6H

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors

FROM: Andrew Damron - Technical Services Director
NS-Technical Services/Engineer

REPORT BY: Jill Hughes, Associate Engineer - 707-258-6013

SUBJECT: Approve the Project, concur with CEQA determination, and Authorize the General Manager to Issue Notice Inviting Bids for the Manhole Rehabilitation - Basin H Project (CIP 18704)

RECOMMENDATION

Approve the 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 Manhole Rehabilitation Basin H Project (CIP 18704)

EXECUTIVE SUMMARY

The scope of this project stems from the ongoing infiltration and inflow (I&I) investigations identifying manholes as a source of infiltration. Basin H displayed a high amount of infiltration and inflow (I&I) during wet weather events in January/February 2017. This project will rehabilitate manholes in Basin H of the collection system that have piping connections lined with Nipak pipe liners that were installed in the 1970s that have displayed infiltration during flow monitoring and nighttime reconnaissance. A similar project rehabilitated other manholes in the State Street area that also had Nipak pipe connections with successful reduction of infiltration. After this project is complete all of the manholes associated with Nipak piping connections will be rehabilitated.

The purpose of this project is to rehabilitate approximately 104 manholes by grout injecting the annular space around the piping connections lined with Nipak. Thirteen of the manholes lined with Nipak will also be fully rehabilitated with restoration mortar and composite coating in addition to the grout injection to stop leakage that was observed during manhole inspections in March 2017. Ten additional manholes within the collection system not associated with Nipak pipe liners were observed with heavy leakage during the night time reconnaissance during the winter of 2016/2017 will be rehabilitated by applying grout, restoration mortar, and coating to reduce infiltration.

Flow monitoring will be conducted next fiscal year which will measure the reduction of I&I achieved by this project.

A project map is attached.

The current budget for this project is \$284,000. The allowed contract time for substantial completion is expected to be 60 calendar days. The engineer's estimate is \$170,000.

The design of this project was based on the flow monitoring and nighttime reconnaissance that took place in January-February 2017. Construction will start in September 2017 and will be completed in November 2017 prior to wet weather.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	This item is budgeted in CIP 18704 with \$284,000 available in Fiscal Year 17/18.
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.
Consequences if not approved:	Infiltration will continue to enter the collection system from the annular space and the cracks and joints in the manholes and the internal condition of the manholes will continue to deteriorate.

Additional Information:

ENVIRONMENTAL IMPACT

Staff performed a preliminary CEQA review of this project and determined that this project is Categorical Exempt. This project involves repair of existing facilities involving negligible or no expansion of capacity, which corresponds to Categorical Exempt 15301 (b) 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

None.

SUPPORTING DOCUMENTS

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

Napa Sanitation District: Approve

Reviewed By: Andrew Damron