



Agenda Date: 5/17/2017  
Agenda Placement: 8C

## 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:** Jill Hughes, Associate Engineer - 707-258-6013

**SUBJECT:** Approve the Project and Authorize the General Manager to Issue Notice Inviting Bids for the Upper Lateral Rehabilitation - Basin L (Pilot #2) (CIP 17702)

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### **RECOMMENDATION**

Approve the Project, concur with Staff's determination that the Project is categorically exempt, and authorize the General Manager to issue Notice Inviting Bids for the Upper Lateral Rehabilitation - Basin L (Pilot#2) (CIP 17702).

### **EXECUTIVE SUMMARY**

The Inflow and Infiltration (I&I) Reduction Program project findings indicate that certain areas in the collection system provided much higher I&I than other areas. The area defined as Basin L, which is the basis for the scope of this project, is a source of significant I&I. Upper (private) laterals are known to be a high contributor of I&I. This project is a pilot project which will rehabilitate upper laterals for approximately 27 residential properties (approximately 750 linear feet) in Basin L using cured-in-place piping method.

The project area selected for the project is isolated (there are not other pipes flowing into the area) and the sewer mains and street laterals were rehabilitated in the Basin L #4 Project in 2015. Preconstruction flow monitoring was performed last winter to measure the base flow from the project area. Once the project is complete, post-construction flow monitoring will be performed to measure the effectiveness (reduction in I&I) of the project. The effectiveness of the project will be used in planning future projects.

There are 43 properties in the sub-basin. Sixteen properties have been removed from the project for various reasons. There are a few vacant lots within the project area that will require new upper laterals when the area is developed. There are several properties within the sub-basin that have recently replaced the upper laterals with plastic piping.

District staff will be performing public outreach on the project which will include a site meeting with each property

owner to review the details of the work that will be performed on their property. Each property owner will be required to sign a right-of-entry prior to work being performed. If a right-of-entry is not granted the District will remove the property from the project. It is anticipated that all property owners will sign a right-of-entry.

The contractor has 90 calendar days to substantially complete the project from Notice to Proceed. Notice to Proceed is expected in July 2017 and construction completed by the end of October 2017. District staff will perform construction management and inspection of this project. The engineer's estimate of probable construction cost for the is \$145,000.

Plans are available for review in the District's Administrative Office and will be available at the District Board meeting on May 17, 2017.

### **FISCAL IMPACT**

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The project is budgeted in the 16/17 FY and the proposed 17/18 FY Capital Improvement Programs. The total budget for both fiscal years is \$160,300.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	This project will rehabilitate upper laterals in a basin that has been previously identified as a significant source of I&I. It is anticipated that the project will result in a reduction of I&I flows in the collection system and ultimately to the Plant.
Is the general fund affected?	Yes
Future fiscal impact:	None, construction will be completed in FY 17/18.
Consequences if not approved:	The I&I within the project boundary will stay at current levels in the collection system and increase over time as the pipe continues to deteriorate.
Additional Information:	

### **ENVIRONMENTAL IMPACT**

Staff performed a preliminary CEQA review of this project and determined the project is Categorical Exempt. This project consists of rehabilitating existing sewer laterals involving negligible 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**

The District completed an upper laterals pilot project in the East Spring Street area of Alta Heights in 2010 and an upper laterals pilot project in Basin L in 2015. Terrain, soil conditions, and groundwater levels are different in Alta Heights compared with the Basin L area. This third upper lateral pilot study located in Basin L will collect additional data and help the District evaluate the costs and benefits of rehabilitating private laterals. Post

construction flow monitoring will occur in the winter of 2017/2018 to evaluate the success of the project and the ability to reduce peak flow.

**SUPPORTING DOCUMENTS**

A . CEQA Notice of Exemption

B . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy