



Agenda Date: 7/18/2018
Agenda Placement: 7D

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors
FROM: Timothy Healy - General Manager
NS-Treatment Plant Operations
REPORT BY: Andrew Damron, Technical Services Director - 707-258-6000
SUBJECT: Award Task Order for the Chemical Alternatives Evaluation

RECOMMENDATION

Authorize the Purchasing Agent to execute Task Order No. 42 with Brown and Caldwell to conduct a Chemical Alternatives Evaluation in the amount of \$129,950.

EXECUTIVE SUMMARY

NapaSan's Soscol Water Recycling Facility uses various chemicals during treatment of wastewater prior to recycled water distribution. The primary purpose of this study is to evaluate alternatives to chloride-based chemicals and understand facility-wide impacts that may be associated with alternative chemical(s). The evaluation will identify (1) capital improvements, operational requirements, and costs for selected alternative chemicals; (2) impacts for the alternative chemicals to process streams such as odor, nutrients, and biosolids application; and (3) next steps required for implementation for selected alternative chemical, such as design, training, operations, permit-related activities, pilot testing, and process control considerations.

The study is expected to be completed in about four (4) months.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The study is budgeted in the FY18/19 operations budget. There is sufficient funds in the budget to cover the costs of the study.

Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The study will identify if there are alternative chemicals that could feasibly lower the chloride levels in NapaSan's recycled water.
Is the general fund affected?	Yes
Future fiscal impact:	None.
Consequences if not approved:	NapaSan will continue to use the same chemicals for wastewater treatment and recycled water production.
Additional Information:	None.

ENVIRONMENTAL IMPACT

None

BACKGROUND AND DISCUSSION

NapaSan supplies recycled water for irrigation of vineyard properties. Grape vines are susceptible to chloride toxicity, with variation among varieties and rootstocks within species. High levels of chloride can result in leaf injury. NapaSan experienced higher levels of chloride in wastewater influent during the recent drought and as a result of community water conservation measures. Extensive efforts by NapaSan over the past 3 years have resulted in a reduction of chloride levels in wastewater influent and recycled water, however if rainfall in future years is lower than average, higher chloride levels could return. This study will evaluate alternative options to reduce chloride levels in NapaSan's recycled water.

SUPPORTING DOCUMENTS

A . Task Order 42

Napa Sanitation District: Approve

Reviewed By: Timothy Healy