



**NEVADA COUNTY SANITATION DISTRICT NO. 1**  
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Sean Powers  
Deputy District Administrator

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File: 300.103 001

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**NEVADA COUNTY SANITATION DISTRICT NO. 1 BOARD OF DIRECTORS**  
**Board Agenda Memo**

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**MEETING DATE:** February 28, 2017

**TO:** Board of Supervisors

**FROM:** Brad Torres, Wastewater Operations Manager

**SUBJECT:** Authorization to enter into an Agreement with Inland Environmental Resources for a Trial Use Period with an Option to Purchase, to Install and Evaluate a Gener-Ox Sulfide Oxidation Unit for Odor Control Use in Lake Wildwood, Zone 1 and Amending the Fiscal Year 2016/17 Sanitation District Budget, in the Maximum Amount of \$100,885.00 – 4/5 Affirmative Vote Required – District 4

**RECOMMENDATION:** Approve the attached Resolution.

**FUNDING:** The new odor control unit will be funded from fund balance maintained by Nevada County Sanitation District No. 1, Lake Wildwood, Zone 1. A budget amendment is required to allocate funding for the capital asset. There is no impact to the General Fund.

**BACKGROUND:**

The Sanitation District receives a number of complaints about odors, particularly in the Penn Valley and Lake Wildwood zones. While a number of odor control technologies have been tried, the success of those technologies has been mixed at best. Staff therefore continues to investigate and evaluate new odor control technologies.

Hydrogen Sulfide (H<sub>2</sub>S) is the primary component that leads to odor complaints, and it also produces sulfuric acid which condenses on surfaces, causing corrosion to concrete and steel. Field monitoring equipment has identified several lift stations within Lake Wildwood that have a high presence of H<sub>2</sub>S, and staff is looking at those locations to implement new technologies.

Inland Environmental Resources (IER) manufactures an odor control unit that District staff believes could be very effective in treating these ongoing odor and corrosion issues. District staff has negotiated a paid trial period with a payback towards purchase option for the equipment to confirm its performance prior to purchasing the equipment. The District is proposing to conduct the trial period at a lift station in Penn Valley (due to space limitations in Lake Wildwood). Specific performance criteria have been established

which will determine whether or not the unit meets our needs related to odor and corrosion control. If the units perform successfully, we will complete the purchase of the unit from IER.

The proposed solution is proprietary technology for which there is no directly comparable alternative in the marketplace. For that reason, this is a sole-source procurement. No competitive solicitations were made.

The trial price of the unit is \$25,500, and if we ultimately purchase the unit, the full price is \$100,885. If the test is successful, the District will also begin acquiring easements necessary for additional installments in Lake Wildwood.

The Sanitation District recommends that the Board of Directors approves the Resolution.

Please contact me if additional information is required.

**Prepared by:** Brad Torres, Wastewater Operations Manager

**Approved by:** Trisha Tillotson, Director of Public Works

TT:BT:cn

Submittal Date: October 17, 2016

Revision Dates: January 12, 2017, February 13, 2017, February 15, 2017