

successful. The specially formulated chemical has reduced the vapor level of sulfide recorded from as high as 62 parts per million (ppm) to an average 3 ppm. This was made possible after starting with a high chemical feed rate of about 400 gallons per day (gpd) and gradually lowering the feed rate to about 225 gpd. The initial high dosage was needed to coat the slimy sulfide releasing bacteria layer in the pipe. The established target feed rate is between 180-210 gpd and this will correlate directly to ambient temperature. Higher temperatures increases the release of sewer gases.

Staff is recommending to continue with the chemical addition for the odor control program till the beginning of the new fiscal year. In the meantime Utilities staff will work closely with Engineering and Construction staff to re-evaluate the chemical addition program and explore other cost effective methods to control the release of sewer gases till the trunk line gets replaced.

Staff has reached out to Pencco and negotiated a slightly reduced price of \$2.38 per gallon of chemical compared to \$2.48 charged for the 45 day pilot program. It is estimated that each tanker load of chemical is about 4,200 gallons and is expected to last about 20 days. The cost per load is about \$9,996.00. The last load of chemical delivered per the 45 day pilot program contract will last until approximately March 7, 2018. A new load shall be ordered on or around March 1st to replenish the chemical inventory. Seven more loads will be needed to extend the program until July 2018 at \$9,996.00 per load. Including the monthly cost of equipment rental, the total estimated cost to continue with the chemical addition program is \$69,972.00.

Pencco has agreed to continue with the current services provided as outlined in the November 21, 2017 proposal. Representatives of Pencco will meet with city staff sometime in March to discuss the results of the 45 day pilot program. Staff has identified funds in the Sewer Repair and Construction Division (020-5415-435-4028).

Cost: \$ 69,972.00

Prepared By: Anthony C. Daniel, Utilities Director

Reviewed By: Finance Department
Legal Department
Assistant City Manager-Operations

Approved By: Michael L. Spurgeon, City Manager

Attachments: Proposal from Pencco to continue the chemical addition pilot program for sewer odor along County Line Road sewer trunk line

Recommendation:

Approve and accept the proposal from Pencco Inc. to continue with the chemical feed pilot program for odor control along the County Line sewer trunk line