



**DATE:** July 1, 2014

**CATEGORY:** Consent

**DEPT.:** Public Works

**TITLE:** **Landfill Gas Flare Replacement, Project 14-52 – Approve Plans and Specifications/Authorize Bids**

### **RECOMMENDATION**

1. Approve plans and specifications for Landfill Gas Flare Replacement, Project 14-52, and authorize staff to advertise the project for bids.
2. Authorize the City Manager to award the construction contract to the lowest responsible bidder if the bid is within the project budget.

### **BACKGROUND**

Landfill gas generated by the decomposing refuse at the City's closed landfills is used to generate electricity at the City's flare station and sewage pump station, and at a Google-owned site on Charleston Road. Excess gas not used for electricity generation is destroyed at the flare station in compliance with State and Federal air quality regulations. The flare station, which began operation in 1989, is at the end of its useful life, and the Landfill Gas Flare Replacement Project was created to fund removal and replacement of the three existing flares.

### **ANALYSIS**

The volume of gas produced by the landfill has decreased from 3,000 cubic feet per minute (cfm) in 1989 to 900 cfm today, and the replacement flares have been sized to destroy the lower and continually decreasing volume. Plans and specifications are complete for the site work necessary to accommodate the new flares and for flare installation. The flares have been ordered directly from the manufacturer by the City to reduce construction delays (due to the long equipment manufacturing lead time) and eliminate the overhead cost of purchasing equipment through the contractor. Flare station components which are in good working condition and relatively new were retained in the replacement design.

The estimated construction cost is as follows:

Construction	\$ 345,000
Construction Contingency	35,000
Flares	318,000
Design	197,000
Inspection and Testing	50,000
Permitting	<u>10,000</u>
Subtotal	955,000
Administration @ 6.5%	<u>62,000</u>
TOTAL	<u>\$1,017,000</u>

Plans and specifications are on file in the Public Works Department. In accordance with the California Environmental Quality Act (CEQA), this project has been determined to be categorically exempt as this project consists of replacement of the existing landfill gas flares with no expansion of capacity and purpose.

If Council approves the recommended actions, the project is anticipated to be completed in January 2015.

### **FISCAL IMPACT**

The Landfill Gas Flare Replacement, Project 14-52, is funded with \$1,065,000 from the Shoreline Regional Park Community Fund. The project budget is sufficient to fund the estimated construction cost.

### **ALTERNATIVES**

1. Do not proceed with the project.
2. Provide other direction to staff.

**PUBLIC NOTICING** – Agenda posting.

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