TO:  HONORABLE CITY COUNCIL

FROM:  CITY MANAGER  DEPARTMENT: PUBLIC WORKS

DATE:  AUGUST 4, 2008  CMR: 322:08

SUBJECT:  APPROVAL OF A REFUSE ENTERPRISE FUND CONTRACT WITH SHAW ENVIRONMENTAL IN THE AMOUNT OF $401,350 TO REPAIR, REPLACE AND UPGRADE THE LANDFILL GAS AND LEACHATE COLLECTION SYSTEM WITHIN BYXBEE PARK/PALO ALTO LANDFILL, CAPITAL IMPROVEMENT PROGRAM PROJECT RF-09002

RECOMMENDATION
Staff recommends that Council:

1. Approve and authorize the City Manager or designee to execute the attached contract with Shaw Environmental in the amount of $401,350 to repair, replace and upgrade the landfill gas and leachate collection system pursuant to CIP RF-09002.

2. Authorize the City Manager or his designee to negotiate and execute one or more change orders to the contract with Shaw Environmental for related, additional but unforeseen work which may develop during the project, the total value of which shall not exceed $40,135.

DISCUSSION
Project Description
Work to be performed under this contract includes repair, replacement and upgrade to the landfill gas and leachate collection and removal system within Byxbbee Park, a 29 acre section of the Palo Alto Landfill that was closed in 1990. The gas and leachate collection systems have been experiencing significant problems over the last few years due to settlement and age-deterioration. That has inhibited collection and removal of gas and leachate from the landfill within Byxbbee Park. Settlement of the buried PVC gas piping in several areas has allowed gas condensate to collect in low areas of the piping, causing restrictions and preventing optimal vacuum on the gas collection wells. In addition, older PVC gas piping has cracked (due to settlement) causing leaks and high oxygen content in wells potentially causing the gas wells to be out of regulatory compliance. Scaling (the build up of solids inside the piping) has blocked and inhibited the extraction and flow of leachate, making it difficult to remove leachate from the landfill within the Byxbbee Park area.

Replacing the PVC gas piping with welded HDPE piping will allow the City to stay in compliance with the Bay Area Air Quality Management District regulations regarding oxygen
concentrations and methane surface emissions as well as to continue to provide the Palo Alto Regional Water Quality Control Plant (RWQCP) with a beneficial supply of landfill gas to help run its sludge incinerators. New HDPE leachate piping is necessary to alleviate blockage caused by scaling and to prevent potential leachate leaks in the aged piping (that could result in regulatory violations). The larger size piping will also help minimize the blockages caused by scaling.

Generally, work under this contract includes:

- Replacement of all buried LFG PVC piping with HDPE piping;
- Replacement of all buried HDPE undersized piping with large HDPE piping;
- Replacement of six deteriorated gas wells (out of 18 total wells within Byxbee park);
- Replacement of four gas condensate traps and tying them into the leachate extraction system to meet newer regulatory requirements;
- Installation of two new piezometer wells that will help measure the buildup of leachate within the landfill; and
- The proper abandonment of all replaced wells, gas condensate traps and other components.

Full operation of the gas collection system is required by Air District Regulations during the construction work.

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<th>Summary of Bid Process</th>
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<tr>
<td>Bid Name/Number</td>
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<td>Proposed Length of Project</td>
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<td>Number of Bids Mailed to Contractors</td>
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<td>Number of Bids Mailed to Builder’s Exchanges</td>
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<td>Total Days to Respond to Bid</td>
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<td>Pre-Bid Meeting?</td>
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<td>Number of Company Attendees at Pre-Bid Meeting</td>
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<td>Number of Bids Received:</td>
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<td>Bid Price Range</td>
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*Bid summary provided in Attachment B.

Staff has reviewed all bids submitted and recommends that the bid of $401,350 submitted by Shaw Environmental be accepted and that Shaw Environmental be declared the lowest responsible bidder. The bid is 16 percent below the engineer's estimate of $476,625. The change order amount of $40,135 which equals 10 percent of the total contract is requested because of additional or unforeseen work associated with the environmental control systems upgrades.

Staff confirmed with the Contractor's State License Board that the contractor has an active license on file. Staff checked references supplied by the contractor for previous work performed and found no significant complaints.
RESOURCE IMPACT
Funds for this project have been appropriated under the FY 2008-2009 Refuse Enterprise Fund.

POLICY IMPLICATIONS
Recommendations of this staff report are consistent with existing City policies.

ENVIRONMENTAL REVIEW
The proposed upgrade and replacement modifications are Categorically Exempt from California Environmental Quality Act (CEQA) under Section 15301, Class 1 exemptions covering the replacement and repair of existing facilities.

ATTACHMENTS
Attachment A: Contract
Attachment B: Bid Summary
Attachment C: Certificate of Nondiscrimination

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