

**SANTA BARBARA COUNTY  
BOARD AGENDA LETTER**



Clerk of the Board of Supervisors  
105 E. Anapamu Street, Suite 407  
Santa Barbara, CA 93101  
(805) 568-2240

**Agenda Number:**  
**Prepared on:** 3/7/03  
**Department Name:** PW/Laguna Sanitation District  
**Department No.:** 054  
**Agenda Date:** 3/25/03  
**Placement:** Administrative  
**Estimate Time:**  
**Continued Item:** NO  
**If Yes, date from:**

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**TO:** Board of Directors  
Laguna County Sanitation District

**FROM:** Phillip M. Demery, Public Works Director

**STAFF** Mark A. Schleich, Deputy Director  
**CONTACT:** Martin J. Wilder, District Manager x8750

**SUBJECT:** Construction of the Brine Concentrate Pipeline, Brine Concentrate Disposal Well and Recycled Water Pipeline Project (BRINEX #720610), Fourth and Fifth Supervisorial Districts

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**Recommendation(s):**

That the Board of Directors:

- A. Approve and authorize contract change order no. 1 to contract (BC 03030) with R. Baker, Inc. (not a local vendor) in the amount of \$402,824.90 for a revised total budget of \$1,522,898.90 for the Brine Concentrate Pipeline, Brine Concentrate Disposal Well and Recycled Water Pipeline Project (BRINEX-720610) to provide for additional injection well work.

**Alignment with Board Strategic Plan:**

The recommendation(s) are primarily aligned with Goal No. 2, "A safe and healthy community in which to live, work and visit."

**Executive Summary and Discussion:**

This project is the second part of the Total Dissolved Solids Reduction and Recycled Water Project (BRINEX). The purpose of the project is to transport brine concentrate generated from the reverse osmosis process at the wastewater reclamation plant to a disposal well and to transport recycled water produced at the plant to off site recycled water users. The plant improvements are funded through the State Water Quality Control Board State Revolving Loan program and this project is funded by District reserves. Construction management services for this project are included in the professional services agreement with CH2MHill approved by the board on March 13, 2001.

On Thursday, May 30, 2002, seven (7) bids were opened for the construction of the Brine Concentrate Pipeline, Brine Concentrate Disposal Well and Recycled Water Distribution Pipeline Project (BRINEX-720610). The lowest responsible bid was submitted by R. Baker, Inc. (not a local vendor) in the amount of \$1,120,074.00, which was 45.43% below the engineer's estimate of \$2,052,387.00. The engineer's estimate was conservative on pipe items in anticipation of fluctuations in the plastic/petroleum industry and anticipated higher costs related to the injection well work. On June 18, 2002, the Board awarded the construction contract to R. Baker and approved a contingency fund of \$68,503.70 as authorized by the State Public Contract Code resulting in an approved budget of \$1,188,577.70.

Contract change order no. 1 addresses force account work by the oil well subcontractor to address final requirements by the USEPA to comply with the terms of the proposed operating permit and to address unforeseen conditions in the well. Items of work related to compliance with the permit include perforation and cement the existing 7" casing just below the underground source of drinking water (USDW) level at 2,250 feet below the ground surface and performance of a radioactive tracer survey (RTS) to demonstrate external mechanical integrity. The cost for this work amounted to \$35,787.57.

Unforeseen conditions encountered during the down hole work involved methods employed to construct the new (replacement) 5½" liner casing within the existing 7" casing (constructed in 1942). Based on test information obtained in November 1999, it was determined that a tight spot or partially collapsed section existed in the 7" casing at 4,680 feet below the ground surface. The original work plan called for swedging this section of the existing casing to provide space for placing the replacement casing. When this work was initiated, it was found that the casing was actually separated and offset at that location which prevented the 5½" casing from being extended to below this level. Multiple attempts and various technologies were used to open this section of casing to allow the placement of the replacement casing. Ultimately, this necessitated the use of a two-stage cementing operation for the annular space between the existing 7" casing and the new 5½" casing and the use of 4½" casing from the trouble spot to the screen injection interval. Said work involved the use of various vendors and suppliers with expertise in oil well work, the use of special tools and equipment and additional labor to complete the required modifications. The cost for this work amounted to \$394,306.27.

Total costs for the additional well work, therefore, amounted to \$430,093.84. Subtracting the Supplemental Item balance of \$27,268.94 the increase to the contract is \$402,824.90 which is \$334,321.20 above the original approved contingency amount of \$68,503.70.

The TDS Reduction and Recycled Water project is included in the Five Year Capital Improvement Plan (2000/2005 CIP B-248).

**Mandates and Service Levels:**

There are no changes in programs or service levels with this action.

**Fiscal and Facilities Impacts:**

The project is funded by District service charges and is included in the budget as shown on page D-304 of the 2002/2003 budget under the Laguna Sanitation cost center of the Solid Waste & Utilities Division. Funding is located in Department 054, Fund 2870, Program 6000, Account 8200.

**Special Instructions:**

Request that the chair of the board sign the original contract change order, retain one copy of the contract change order and return the original along with a certified stamped minute order approving this action to the Public Works Department, Laguna County Sanitation District to the attention of Sheila Engellenner, ext 8750.

**Concurrence:**

None required