

AGENDA

REGULAR MEETING OF THE PLANNING, DESIGN, AND CONSTRUCTION COMMITTEE

ORANGE COUNTY SANITATION DISTRICT

THURSDAY, AUGUST 1, 2002
5:00 -7:00 P.M.

ADMINISTRATIVE OFFICE
10844 Ellis Avenue
Fountain Valley, California
www.ocsd.com

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the District's Administrative Office not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Board Secretary.

In the event any matter not listed on this agenda is proposed to be submitted to the Planning, Design, and Construction Committee for discussion and/or action, it will be done in compliance with Section 54954.2(b) as an emergency item or that there is a need to take immediate action which need came to the attention of the District subsequent to the posting of the agenda, or as set forth on a supplemental agenda posted not less than 72 hours prior to the meeting date.

All current agendas and meeting minutes are also available via OCSD's Internet site located at www.ocsd.com. Upon entering OCSD's web site, please navigate to the Board of Directors section.

1. ROLL CALL

2. APPOINTMENT OF CHAIR PRO TEM, IF NECESSARY

3. PUBLIC COMMENTS

All persons wishing to address the Planning, Design, and Construction Committee on specific agenda items or matters of general interest should do so at this time. As determined by the Chair, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to three minutes.

Matters of interest addressed by a member of the public and not listed on this agenda cannot have action taken by the Committee except as authorized by Section 54954.2(b).

4. REPORT OF COMMITTEE CHAIR
5. REPORT OF GENERAL MANAGER
6. REPORT OF DIRECTOR OF ENGINEERING
7. REPORT OF THE COMMUNICATIONS MANAGER
8. REPORT OF GENERAL COUNSEL
9. CONSENT CALENDAR ITEMS

Consideration of motion to approve all agenda items appearing on the Consent Calendar not specifically removed from same, as follows:

All matters placed on the Consent Calendar are considered as not requiring discussion or further explanation, and unless any particular item is requested to be removed from the Consent Calendar by a Director or Staff member, there will be no separate discussion of these items. All items on the Consent Calendar will be enacted by one action approving all motions, and casting a unanimous ballot for resolutions included on the consent calendar. All items removed from the Consent Calendar shall be considered in the regular order of business.

The Chair will determine if any items are to be deleted from the Consent Calendar.

- a. RECEIVE, FILE, AND APPROVE MINUTES OF PREVIOUS MEETING

Receive, file, and approve draft minutes of the June 6, 2002 Planning, Design, and Construction Committee meeting.

- b. CHANGE ORDER REPORTS

Attached is the Monthly and Quarterly Change Order Reports and the Report of Construction Contracts with Potential Change Orders over Five Percent (5%). This is an information only item. Action on change orders that require PDC Committee or Board approval will be taken separately. There are three change orders this month for PDC Committee approval.

- c. PSA AND ADDENDA REPORT

Attached is the PSA and Addenda Report. This is an information only item. Action on PSAs and Addenda that require PDC Committee or Board approval will be taken separately. There were no PSAs and four Addenda approved by the General Manager from May 24 through July 18, 2002.

d. FACILITIES ENGINEERING CONSULTANT ACTIVITY REPORT

Attached is the Facilities Engineering Consultant Activity Report. This is an information only item.

e. QUARTERLY CONTRACT STAFFING ASSIGNMENTS REPORT

Attached is the Quarterly Contract Staffing Assignments Report. This is an information only item.

f. SANTA ANA RIVER INTERCEPTOR RELOCATION AND PROTECTION STATUS REPORT

Attached is the Santa Ana River Interceptor (SARI) Relocation and Protection Status Report. This is an information only item.

g. QUARTERLY GROUNDWATER REPLENISHMENT SYSTEM (GWRS) STATUS REPORT

Attached is the Quarterly Groundwater Replenishment System (GWRS) Status Report. This is an information only item.

- h. [PDC02-48](#) Ratify Change Order No. 2 to Primary Clarifiers 16-31 and Related Facilities, Job No. P1-37, with Margate Construction, authorizing an addition of \$75,214 and a time extension of 49 calendar days, increasing the total contract amount to \$70,441,214. This item is for PDC approval per delegated authority by Board Resolution 99-23.

- i. [PDC02-49](#) Recommend to the Board of Directors to Ratify Change Order No. 4 to Replacement of Back Bay Trunk Sewer, Contract No. 5-46, with Ken Thompson, Inc., authorizing an addition of \$491,060, increasing the total contract amount to \$6,207,126.

- j. [PDC02-50](#) Recommend to the Board of Directors to (1) Ratify Change Order No. 1 to Air Compressor Upgrades at Plant No. 1, Job No. SP2001-02, with R. Fox Construction, Inc., authorizing an addition of \$24,930 and a time extension of 95 calendar days, increasing the total contract amount to \$312,630; and (2) Accept Air Compressor Upgrades at Plant No. 1, Job No. SP2001-02, as complete, authorizing execution of the Notice of Completion and approving the Final Closeout Agreement.

END OF CONSENT CALENDAR

Consideration of items deleted from Consent Calendar, if any.

10. ACTION ITEM (Item a-e)

- a. [PDC02-51](#) Recommend to the Board of Directors to accept Interplant Microwave Data Transmission Project, Job No. SP-44, as complete, authorizing

execution of the Notice of Completion and approving the Final Closeout Agreement.

- b. [PDC02-52](#) Recommend to the Board of Directors to accept Patio Area Upgrade at Plant No. 1, Job No. SP1999-075, as complete, authorizing execution of the Notice of Completion and approving the Final Closeout Agreement.
- c. [PDC02-53](#) Recommend to the Board of Directors to adopt Resolution No. OCSD 02-____, approving agreement with the State Energy Resources Conservation and Development Commission for purposes of conducting a pathogen reduction pilot testing program.
- d. [PDC02-54](#) Recommend to the Board of Directors to (1) Approve a budget amendment of \$20,000 for Interim Strategic Plan Update, Job No. J-40-8, for a total project budget of \$707,340; and (2) Approve Addendum No. 2 to the Professional Services Agreement with Camp Dresser and McKee for additional engineering services for Interim Strategic Plan Update, Job No. J-40-8, for an additional amount of \$30,000, increasing the total amount not to exceed \$627,340.
- e. [PDC02-55](#) Recommend to the Board of Directors to (1) award a Professional Services Contract to Integrated Program Management Consultants for Program Management Consultant services in an amount not to exceed \$15,000,000 and for a period not to exceed five years; and (2) Establish an initial Fiscal Year 2002-03 PMC not to exceed a budget of \$2,500,000.

11. CLOSED SESSION

During the course of conducting the business set forth on this agenda as a regular meeting of the Planning, Design, and Construction Committee, the Chair may convene the Committee in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Directors during a permitted closed session and are not available for public inspection. At such time as final actions are taken by the Boards on any of these subjects, the minutes will reflect all required disclosures of information.

- a. Convene in closed session, if necessary
- b. Reconvene in regular session
- c. Consideration of action, if any, on matters considered in closed session.

12. OTHER BUSINESS, COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY

13. MATTERS WHICH A DIRECTOR WOULD LIKE STAFF TO REPORT ON AT A SUBSEQUENT MEETING

14. MATTERS WHICH A DIRECTOR MAY WISH TO PLACE ON A FUTURE AGENDA FOR ACTION AND STAFF REPORT

15. FUTURE MEETING DATES

The next Planning, Design, and Construction Committee Meeting is scheduled for September 5, 2002, at 5 p.m.

16. ADJOURN

NOTICE TO COMMITTEE MEMBERS

For any questions on the agenda or to place items on the agenda, Committee members should contact the Committee Chair or Secretary ten days in advance of the Committee meeting.

<i>Committee Chair:</i>	<i>Russell Patterson</i>	<i>(714) 998-1500</i>	
<i>Director of Engineering:</i>	<i>David Ludwin</i>	<i>(714) 593-7300</i>	<i>dludwin@ocsd.com</i>
<i>Secretary:</i>	<i>Jean Tappan</i>	<i>(714) 593-7101</i>	<i>jtappan@ocsd.com</i>

PDC COMMITTEE

AGENDA REPORT

Meeting Date 08/01/02	To Bd. of Dir.
Item Number PDC02-48	Item Number

Orange County Sanitation District

FROM: David Ludwin, Director of Engineering
Originator: Dean Fisher, Project Manager

SUBJECT: PRIMARY CLARIFIERS 16-31 AND RELATED FACILITIES,
JOB NO. P1-37

GENERAL MANAGER'S RECOMMENDATION:

Ratify Change Order No. 2 to Primary Clarifiers 16-31 and Related Facilities, Job No. P1-37, with Margate Construction, authorizing an addition of \$75,214 and a time extension of 49 calendar days, increasing the total contract amount to \$70,441,214. This item is for PDC approval per delegated authority by Board Resolution 99-23.

SUMMARY

Background

- Job Number P1-37, Primary Clarifiers 16-31 and Related Facilities include the construction of 16 new primary clarifiers with support equipment, improvements to existing Primary Clarifiers 6-15, and improvements to Primary Clarifiers 1-5.
- Brown and Caldwell prepared the plans and specifications and the contract was awarded to Margate Construction on October 24, 2001.
- Change Order No. 2 includes 8 items of additional work, and 2 items of deleted work. There are no errors or omissions associated with this change order. There is a 49-day time extension associated with this change order. Liquidated damages on this project are \$3,000 per day and there are no bonus provisions.

Contract Schedule

Contract Start Date	January 7, 2002
Original Contract Completion Date	November 7, 2005
Total Number of Change Orders to Date	1
Current Contract Completion Date	November 7, 2005
Actual Completion Date	N/A
Days Subject to Liquidated Damages	0

Change Order No. 2 Content

Item No.	Description	Amount	Days	Type
1	Undisclosed Utilities	\$ 17,696.00	0	Changed Conditions
2	Grit Removal	\$ 24,339.00	0	Changed Conditions
3	High Pressure Air Piping	\$ 16,229.00	0	Work not related to Contract
4	Unsuitable Soils	\$ 53,752.00	14	Changed Conditions
5	Weir Plate Anchors	\$ 13,000.00	0	Design Change
6	Delete Test Piles	(\$ 51,870.00)	0	Design Change

7	Field Office	\$ 11,000.00	0	Design Change
8	Galvanize Structural Steel	\$ 14,086.00	0	Design Change
9	Delete Slurry, 60 and 66-inch pipes	(\$ 65,000.00)	0	Design Change
10	Effluent Dist. Struct. Modifications	\$41,982.00	35	Design Change
	Total Change Order No. 2	\$ 75,214.00	49	

Items 1, 2, and 4 involve issues resulting from the site excavation. During this excavation, it was revealed that the site had subterranean structures previously unknown, as well as organic materials buried in the area. Soils conditions that varied from the specifications were also discovered. Payment for these items was performed on a time and materials basis.

Item 3 involved adding new air piping to coordinate with another project. This work was added to this contract to simplify the work in the main gallery between projects.

Job Completion

The project is 10% complete.

PROJECT/CONTRACT COST SUMMARY

Original Contract Price	\$ 70,366,000
Previously Authorized Changes	\$ 0
This Change	\$ 75,214
Change Orders to Date	\$ 75,214
Percentage Increase to Date	0.11%
Amended Contract Price	\$ 70,441,214

BUDGET IMPACT

- This item has been budgeted. (Line item: Section 8, CIP, P1-37)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

Staff requests a reallocation of funds in the amount of \$75,214 for this change order. Contingency budget will be reduced and reallocated to the construction contract. There is no increase in the total project budget.

ADDITIONAL INFORMATION

None.

ALTERNATIVES

No alternatives are proposed.

CEQA FINDINGS

This project was included in the Strategic Plan EIR that was certified on October 27, 1999. A Notice of Determination was filed on October 29, 1999.

ATTACHMENTS

1. [Budget Information Table](#)
2. [Change Order Status Report](#)
3. [Change Order](#)

BUDGET INFORMATION TABLE
Primary Clarifiers No. 16-31 and Related Facilities
Job No. P1-37

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development		\$ 78,000		\$ 78,000	\$ 78,000		\$ 78,000	\$ 76,974	99%
Studies/Permitting		\$ 191,000		\$ 191,000	\$ 191,000		\$ 191,000	\$ 191,194	100%
Consultant PSA		\$ 5,205,904		\$ 5,205,904	\$ 5,205,904		\$ 5,205,904	\$ 3,679,428	71%
Design Staff		\$ 1,073,000		\$ 1,073,000	\$ 1,073,000		\$ 1,073,000	\$ 1,054,844	98%
Construction Contract		\$ 70,366,000	\$ 75,214	\$ 70,441,214	\$ 70,366,000	\$ 75,214	\$ 70,441,214	\$ 6,655,610	9%
Construction Administration		\$ 2,785,000		\$ 2,785,000	\$ 2,785,000		\$ 2,785,000	\$ 420,988	15%
Construction Inspection		\$ 2,763,000		\$ 2,763,000	\$ 2,763,000		\$ 2,763,000	\$ 183,289	7%
Contingency		\$ 7,485,096	\$ (75,214)	\$ 7,409,882			\$ -		
PROJECT TOTAL	\$ -	\$ 89,947,000	\$ -	\$ 89,947,000	\$ 82,461,904	\$ 75,214	\$ 82,537,118	\$ 12,262,327	15%
Reimbursable Costs									
PROJECT NET	\$ -	\$ 89,947,000	\$ -	\$ 89,947,000	\$ 82,461,904	\$ 75,214	\$ 82,537,118	\$ 12,262,327	15%

CHANGE ORDER STATUS REPORT

PRIMARY CLARIFIERS 16-31 AND RELATED FACILITIES

JOB NO. P1-37

ITEM	APPROVAL DATE	CONTRACT COST	CONTRACT COST TO DATE	PERCENTAGE INCREASE	AUTHORIZED TIME (DAYS)	AUTHORIZED TIME TO DATE (DAYS)
CONTRACT	6/23/1999	\$ 70,366,000.00	\$ 70,366,000.00	0.00	1400	1400
CO NO. 1	12/19/2001	\$ -	\$ 70,366,000.00	0.00	0	1400

**10844 ELLIS AVENUE, P.O. BOX 8127
FOUNTAIN VALLEY, CALIFORNIA 92728-8127
CHANGE ORDER**

Contractor: Margate Construction, Inc. C.O. No.: Two (2)
Date: August 1, 2002
Job: Primary Clarifiers 16-31 and Related Facilities, Job No. P1-37
Consultant: Brown and Caldwell

Amount of this Change Order (Add)~~(Deduct)~~ \$75,214.00

In accordance with contract provisions, the following changes in the contract and/or contract work are hereby authorized and as compensation, the following additions to or deductions from the contract price are hereby approved.

ITEM 1 - UNDISCLOSED UTILITIES

This item provides labor, materials, and equipment to remove underground structures and pipelines not shown on the contract drawings. Work includes removing and disposing of existing concrete and steel structures, and piping from the excavation area. In addition, approximately 100 LF of existing drain and irrigation pipelines were relocated around the excavation area to accommodate the new construction. The work was accomplished on Contractor's force account pursuant to Section 48 (B) 2 of the General Requirements (Reference FCO-P137-01).

ADDED COST THIS CHANGE ORDER ITEM: \$17,696.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 2 - GRIT REMOVAL

This item provides labor, materials, and equipment to excavate and remove buried solid organic waste (grit and rags) not shown on the Contract Documents. The Contractor loaded this material into trucks provided by OCSD under an existing Grit and Screenings contract for disposal. The work was accomplished on contractor's force account pursuant to Section 48 (B) 2 of the General Requirements (Reference FCO-P137-02).

ADDED COST THIS CHANGE ORDER ITEM: \$24,339.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 3 - HIGH PRESSURE AIR PIPING

This item provides labor, materials, and equipment for the extension of a 3-inch High-Pressure Air (HPA) line from the point of connection at the North end of Primary Clarifiers 6-15 to the connection point near the Scum gallery at the South end of the project. Work includes installation of approximately 350 ft. of 3-inch steel, grooved end pipe, isolation valves, paint and identification in accordance with the specifications. This air line was not shown on the contract documents. This air line was originally to be installed under the SP2001-02 project. The proposed P1-37 project work in the gallery created various installation changes and coordination issues with the original alignment. Based on the evaluation of various options, this work was added to the project in order to coordinate with related project work. The work was accomplished on Contractor's force account pursuant to Section 48 (B) 2 of the General

Requirements (Reference FCO-P137-03).

ADDED COST THIS CHANGE ORDER ITEM:

\$16,229.00

TIME EXTENSION THIS CHANGE ORDER ITEM:

0 Calendar Days

ITEM 4 - UNSUITABLE SOILS

This item provides labor, materials, and equipment to remove and replace unsuitable soils to provide a solid structure foundation. This item involves removal of unknown clays and gravel materials unsuitable for compaction below the structure subgrade and replacement with select material as directed by the soils consultant and OCSD. This material includes subsurface clays and gravel deposits remaining from existing sludge drying beds. The contractor is responsible for excavating to subgrade and compacting those soils to the specified criteria to provide a solid foundation. At the subgrade elevation, the soils consultant recommended that a portion of this material be removed to a lower depth and replaced with structural fill material. A time delay to the project schedule was incurred for the additional time to investigate and mitigate the unsuitable soils. The work was accomplished on contractor's force account pursuant to Section 48 (B) 2 of the General Requirements (Reference FCO-P137-04).

ADDED COST THIS CHANGE ORDER ITEM:

\$53,752.00

TIME EXTENSION THIS CHANGE ORDER ITEM:

14 Calendar Days

ITEM 5 - WEIR PLATE ANCHORS

This item provides labor, materials, and equipment to install additional weir plate anchors in the concrete launders. The original contract documents provided for FRP weir plate with anchor spacing of 2'-0". The manufacturer has recommended a spacing of 1'-0". The additional work will involve approximately 4000 additional anchors, bolts, and washers. This change has the concurrence of OCSD staff. The costs associated with this Change Order item were negotiated with the Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-05, RFI 2, RFI 11).

ADDED COST THIS CHANGE ORDER ITEM:

\$13,000.00

TIME EXTENSION THIS CHANGE ORDER ITEM:

0 Calendar Days

ITEM 6 - DELETE TEST PILES

This item provides a credit to delete (5) test piles required in Section 02360-3.0-b of the specifications. The test results of which were intended for use in determining the driving criteria for the production piles. Based on the recommendations of the geotechnical consultant, it was determined that adequate information about the on-site soils conditions was available with which to determine this criteria, and a decision was made to delete the test piles from the Contractor's scope of work. The costs associated with this Change Order item were negotiated with the Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-06).

CREDIT THIS CHANGE ORDER ITEM:

(\$51,870.00)

TIME EXTENSION THIS CHANGE ORDER ITEM:

0 Calendar Days

ITEM 7 - FIELD OFFICE

This item provides labor, material and equipment to increase the field office dimensions from 12' x 60' (as specified in Section 10590) to 24' x 48'. During construction, the dimension of the Contractor-provided OCSD field office was increased in order to meet the project staffing requirements. The costs associated with this Change Order item were negotiated with the

Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-10).

ADDED COST THIS CHANGE ORDER ITEM: \$11,000.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 8 - GALVANIZE STRUCTURAL STEEL

This item provides labor, materials, and equipment for a hot-dip galvanized coating system in lieu of the specified paint coating. This applies to the following items:

Cable Tray Pipe Supports (Drawings: S111, S142, E102A, E102B, E102C)

Truss Support Framing (Drawings: S111, S143/Detail A)

Primary Polymer & Ferric Chloride Building (Drawing: S351)

During Construction, it was determined that the proposed coating system would provide a saving to the District in terms of future maintenance (repainting) costs. The costs associated with this Change Order item were negotiated with the Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-13).

ADDED COST THIS CHANGE ORDER ITEM: \$14,086.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 9 - DELETE SLURRY FOR 60-INCH AND 66-INCH PIPES

This change provides a credit to delete the requirements of Note 7 on Sheet D15 of the Contract Documents, involving the abandonment of 60-inch and 66-inch pipes under the main gallery floor slab (shown on Sheet D10). The referenced note calls for (2) 60-inch and (2) 66-inch pipes to be cleaned and filled with cement slurry. During construction, it was determined that the pipes would be adequately abandoned by implementing all the measures required on the plans, exclusive of Note 7.

The costs associated with this Change Order item were negotiated with the Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-14).

CREDIT THIS CHANGE ORDER ITEM: (\$65,000.00)
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 10 - EFFLUENT DISTRIBUTION STRUCTURE MODIFICATIONS

This item provides labor, materials, and equipment to construct two (2) proposed Primary Clarifiers 16-31 effluent distribution structures (EDS) per RFP-002, in lieu of the configuration shown in the plans. This change raises the floor of the proposed effluent distribution structures to accommodate connections to the existing 108-inch Primary Effluent (PE) Pipelines in Fuentes Road and West Perimeter Road. The EDS is supported by concrete piles, while the pipeline is not. Because of this, there were concerns about the possibility of differential settlement between the EDS structure and the 108-inch PE pipelines in the future. In response, the 66-inch connection pipe at each structure was lengthened in order to provide more flexibility. This change is an increase to the scope of work. This change causes a delay in the critical path of the project due to the additional time taken to redesign the 66-inch pipe pipe layout, review the contractor material submittals, and the additional fabrication time of the piping. The costs associated with this Change Order item were negotiated with the Contractor pursuant to Section 48 (B) 1 of the General Requirements (Reference FCO-P137-15).

ADDED COST THIS CHANGE ORDER ITEM: \$41,982.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 35 Calendar Days

TOTAL ADDED COSTS THIS CHANGE ORDER: \$75,214.00
TOTAL TIME EXTENSION THIS CHANGE ORDER: 49 Calendar Days

The additional work contained in this Change Order can be performed incidental to the prime work and within the time allotted for the original Contract and any extensions to the Contract time made by this and all previously issued Change Orders. It is therefore mutually agreed that 49 days extension of time to perform the work is required for this Change Order. District and Contractor agree that this extra work impacts the critical path scheduling of the prime work, resulting in an overall extension of time for completion of the prime work. District and Contractor agree that the added cost described in Items 4 and 10 above constitutes full and equitable consideration for all the impacts incurred by the Contractor, and no other direct or indirect, incidental or consequential costs, expenses, losses or damages have been or will be incurred by Contractor, except as expressly granted and approved by this Change Order.

SUMMARY OF CONTRACT TIME

Original Contract Date: January 7, 2002
Original Contract Time: 1,400 Days
Original Completion Date: November 7, 2005
Time Extension this C.O.: 49 Days
Total Contract Time Extension: 49 Days
Revised Contract Time: 1,449 Days
Revised Final Completion Due Date: December 26, 2005
Time Subject to Liquidated Damages: N/A
Actual Final Completion Date: N/A

Original Contract Price	<u>\$ 70,366,000.00</u>
Prev. Authorized Changes	<u>\$ 0.00</u>
This Change (Add) (Deduct)	<u>\$ 75,214.00</u>
Amended Contract Price	<u>\$ 70,441,214.00</u>

PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-49	Item Number

FROM: David Ludwin, Director of Engineering
Originator: Mike Bock, Project Manager

SUBJECT: REPLACEMENT OF BACK BAY TRUNK SEWER, CONTRACT NO. 5-46

GENERAL MANAGER'S RECOMMENDATION

Ratify Change Order No. 4 to Replacement of Back Bay Trunk Sewer, Contract No. 5-46, with Ken Thompson, Inc., authorizing an addition of \$491,060, increasing the total contract amount to \$6,207,126.

SUMMARY

Background

- Contract No. 5-46, Replacement of Back Bay Trunk Sewer, includes the installation of 6,800-feet of double 30-inch PVC pipes with manholes and junction structures, lining repair of 2,700-feet of existing 24-inch sewer, and street improvements on Back Bay Drive in the City of Newport Beach.
- Tran Consulting Engineers prepared the plans and specifications, and the contract was awarded to Ken Thompson, Inc. on July 31, 2001.

Contract Schedule

Contract Start Date	July 31, 2001
Original Contract Completion Date	November 03, 2002
Total Number of Change Orders to Date	3
Current Contract Completion Date	December 10, 2002
Anticipated Completion Date	November 30, 2002
Days Subject to Liquidated Damages	N/A
Liquidated Damages Assessment	N/A

Change Order No. 4 Content

Item No.	Description	Amount	Days	Type
1	Sewer Realignment	\$ 470,478.00	0	Design Change
2	Lateral Sewer Connections	\$ 15,811.00	0	Changed Condition
3	Storm Drain Replacement	\$ 4,771.00	0	Changed Condition
	Total – Change Order No. 4	\$ 491,060.00	0	

PROJECT/CONTRACT COST SUMMARY

Original Contract Prize	\$ 5,500,000.00
Previously Authorized Changes	\$ 216,066.00
This Change Order (CO No. 4, Add)	\$ 491,060.00
Change Orders to Date	\$ 707,126.00
*Percent Increase to Date	12.86%
Amended Contract Prize	\$ 6,207,126.00

* See Additional Information below

BUDGET IMPACT

- This item has been budgeted. (FY 02-03 Budget, Collections System)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

Budget increases for the Design Staff and the Construction Contract are covered by surplus Contingency, Construction Inspection and Construction Administration funds. A future increase in total project budget is not expected.

ADDITIONAL INFORMATION

The sewer realignment, Item No. 1 of this Change Order, resulted in a quantity reduction of Contract Bid Item Nos. 3 and 4. Bid Item No. 3 includes construction of a 36-inch sewer, manholes, junction boxes, and landscaping and paving at the downstream termination of the job within the Newport Dunes property. Bid Item No. 4 includes construction of two 30-inch sewer pipes, landscaping and paving within the Newport Dunes property. As a result, the cost of \$470,478 for the sewer realignment will be offset in the final Adjustment of Engineer's Quantities Change Order by approximately (\$553,000). The final Change Order increase will be approximately 4%.

ALTERNATIVES

None

CEQA FINDINGS

The Board of Directors approved the Mitigated Negative Declaration and Mitigation, Monitoring, and Reporting Program on May 24, 2000. The Notice of Determination was filed on June 15, 2000.

ATTACHMENTS

1. [Budget Information Table](#)
2. [Change Order Status Report](#)
3. [Change Order No. 4](#)

BUDGET INFORMATION TABLE
Replacement of Back Bay Trunk Sewer, Contract 5-46
Change Order No. 4, August 2002

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development	\$ 2,600	\$ 16,000		\$ 16,000	\$ 16,000		\$ 16,000	\$ 15,722	98%
Studies/Permitting		\$ 14,000	\$ -	\$ 14,000	\$ 14,000	\$ -	\$ 14,000	\$ 8,056	58%
Consultant PSA	\$ 438,500	\$ 266,000	\$ -	\$ 266,000	\$ 266,000	\$ -	\$ 266,000	\$ 255,006	96%
Design Staff	\$ 372,200	\$ 212,000	\$ 41,000	\$ 253,000	\$ 212,000	\$ 41,000	\$ 253,000	\$ 252,521	100%
Construction Contract	\$ 4,280,900	\$ 5,716,066	\$ 491,060	\$ 6,207,126	\$ 5,716,066	\$ 491,060	\$ 6,207,126	\$ 5,407,668	87%
Construction Administration	\$ 1,132,400	\$ 335,000	\$ (89,758)	\$ 245,242	\$ 335,000	\$ (89,758)	\$ 245,242	\$ 200,921	82%
Construction Inspection		\$ 321,000	\$ (58,368)	\$ 262,632	\$ 321,000	\$ (58,368)	\$ 262,632	\$ 227,516	87%
Contingency	\$ 1,867,200	\$ 383,934	\$ (383,934)	\$ -					
PROJECT TOTAL	\$ 8,093,800	\$ 7,264,000	\$ -	\$ 7,264,000	\$ 6,880,066	\$ 383,934	\$ 7,264,000	\$ 6,367,410	88%
Reimbursable Costs		\$ 126,000	\$ -	\$ 126,000				\$ 94,267	
PROJECT NET	\$ 8,093,800	\$ 7,138,000	\$ -	\$ 7,138,000	\$ 6,880,066	\$ 383,934	\$ 7,264,000	\$ 6,273,143	86%

**CHANGE ORDER STATUS REPORT
REPLACEMENT OF BACK BAY TRUNK SEWER, CONTRACT 5-46**

ITEM	APPROVAL DATE	CONTRACT COST	CONTRACT COST TO DATE	PERCENTAGE INCREASE	AUTHORIZED TIME (DAYS)	AUTHORIZED TIME TO DATE (DAYS)
CONTRACT	July 31, 2001	\$ 5,500,000	\$ 5,500,000		461	461
CO NO. 1	4/4/2002	\$ 94,725	\$ 5,594,725	1.72%	25	486
CO NO. 2	6/26/02	\$ 121,341	\$ 5,716,066	3.93%	12	498
CO NO. 3*	Pending	\$ -	\$ 5,716,066	3.93%	0	498
CO NO.4	Pending	\$ 491,060	\$ 6,207,126	12.86%	0	498

*Pending Approval by G.M. for reduction in retention

**ORANGE COUNTY SANITATION DISTRICT
10844 ELLIS AVENUE, P.O. BOX 8127
FOUNTAIN VALLEY, CALIFORNIA 92728-8127**

CHANGE ORDER

Contractor: Ken Thompson, Inc. C.O. No.: Four (4)
Date: August 28, 2002
Job: Replacement of Back Bay Trunk Sewer, Contract No. 5-46
Consultant: Tran Consulting Engineers

Amount of this Change Order (Add)(Deduct)
\$491,060.00

In accordance with contract provisions, the following changes in the contract and/or contract work are hereby authorized and as compensation, the following additions to or deductions from the contract price are hereby approved.

ITEM 1 – SEWER REALIGNMENT

This item is for a realignment of the new sewer between Stations 6+59 and 0+00. The original alignment routed the new sewer through the landscaped parking lot of the Newport Dunes Waterfront Resort in Newport Beach. The revised alignment moved the sewer into Back Bay Drive and the Dunes entrance road, keeping construction disturbances to the Dunes' operations to a minimum. In addition, the realignment located five new manholes in the street rather than a landscaped area inside the Dunes property. District Maintenance requested the change to improve future manhole access and work space limitation problems. The work consisted of traffic control, flow monitoring, excavating, dewatering, pipe bedding placement, 30 and 36-inch pipe installation, construction of manholes and junction structure, backfill and paving. Also part of the sewer realignment is the rerouting of an existing 24-inch sewer crossing the Dunes entrance driveway. Hydraulic considerations dictated the rerouting of this sewer. This item was completed on a time and material basis pursuant to Section 35 (B) of the General Requirements. As a result of this change order item, Contract Bid Items No. 3 and 4 will be adjusted down in the final Adjustment of Engineer's Quantities Change Order by approximately (\$553,000), resulting in an overall cost savings for the realignment. (Reference FCO 546-10)

ADDED COST THIS CHANGE ORDER ITEM:	\$ 470,478.00
TIME EXTENSION THIS CHANGE ORDER ITEM:	0 Calendar Days

ITEM 2 – LATERAL SEWER CONNECTIONS

This item is for adjustments to two sewer laterals at Stations 7+22 and 10+85. The 8" lateral at Station 7+22 was interfering with the new sewer pipes, which was not shown on the drawings. The lateral was removed and reinstalled with slope adjustments to route it over the new sewers. The 8" lateral found at Station 10+85 was not shown on the drawings. It interfered with the new pipes such that a new manhole had to be constructed on the new sewers to connect the lateral. The work consisted of excavating, temporary flow handling, pipe removal and reinstallation, manhole construction and backfill. This item was negotiated with the Contractor pursuant to

Section 35 (B) of the General Requirements. (Reference FCO 546-18)

ADDED COST THIS CHANGE ORDER ITEM: \$ 15,811.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 3 – STORM DRAIN REPLACEMENT

This item is for the replacement of dual storm drain pipes crossing the new sewers at Station 7+10. The storm drains were located above the new sewers and had to be uncovered during construction. They were found to be in a deteriorated condition. To prevent potential future erosion damage to the new sewers, the storm drain pipes were replaced. The work consisted of pipe removal and disposal, replacement, and backfill. This item was negotiated with the Contractor pursuant to Section 35 (B) of the General Requirements.

ADDED COST THIS CHANGE ORDER ITEM: \$ 4,771.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

TOTAL ADDED COSTS THIS CHANGE ORDER \$ 491,060.00
TOTAL TIME EXTENSION THIS CHANGE ORDER 0 Calendar Days

The additional work contained within this Change Order can be performed incidental to the prime work and within the time allotted for the original Contract and any extensions to the Contract time made by this and all previously issued Change Orders. It is therefore mutually agreed that no time extension is required for this Change Order, and no direct or indirect, incidental or consequential costs, expenses, losses or damages have been or will be incurred by Contractor, except as expressly granted and approved by this Change Order.

SUMMARY OF CONTRACT TIME

Original Contract Date: July 31, 2001
Original Contract Time: 461 Calendar Days
Original Completion Date: November 03, 2002
Time Extension this C.O.: 0 Calendar Days
Total Contract Time Extension: 37 Calendar Days
Revised Contract Time: 498 Calendar Days
Revised Final Completion Due Date: December 10, 2002
Time Subject to Liquidated Damages: N/A
Actual Final Completion Date: N/A

Original Contract Price	\$ 5,500,000.00
Prev. Authorized Changes	\$ 216,066.00
This Change (Add) (Deduct)	\$ 491,060.00
Amended Contract Price	\$ 6,207,126.00

Board Authorization Date: August 28, 2002

August 1, 2002

ORANGE COUNTY SANITATION DISTRICT

Recommended by:

John D. Linder
Construction Manager Date

Approved by:

David A. Ludwin
Director of Engineering Date

Accepted by:
Ken Thompson, Inc.

Contractor Date

EDMS/Doc Class/Class/Template/Change Orders/Change Order Form (00371)

PDC COMMITTEE

AGENDA REPORT

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-50	Item Number

Orange County Sanitation District

FROM: David Ludwin, Director of Engineering
Originator: Umesh Murthy, Engineer

SUBJECT: AIR COMPRESSOR UPGRADES AT PLANT NO. 1,
JOB NO. SP2001-02

GENERAL MANAGER'S RECOMMENDATION

(1) Ratify Change Order No. 1 to Air Compressor Upgrades at Plant No. 1, Job No. SP2001-02, with R. Fox Construction, Inc., authorizing an addition of \$24,930 and a time extension of 95 calendar days, increasing the total contract amount to \$312,630; and (2) Accept Air Compressor Upgrades at Plant No. 1, Job No. SP2001-02, as complete, authorizing execution of the Notice of Completion and approving the Final Closeout Agreement.

SUMMARY

Background

- Job No. SP2001-02 includes installation of new compressors and dryers at the Fleet Services Facility, Headworks, Rebuild Shop, Administration Building, and expansion of the existing air supply system.
- R.W. Beck prepared the plans and specifications, and the contract was awarded to R. Fox Construction, Inc., on June 27, 2001.
- During the equipment procurement, the contractor's supplier who was to provide a specialized coating to portions of the air compressors, went out of business. This resulted in a 95-day delay to the contract completion. The contractor agreed to provide the rental of temporary air compressors during this delay period to satisfy District's O & M staff needs at no additional cost to the contract. This is the only time extension on this contract.

Contract Schedule

Contract Start Date	September 17, 2001
Original Contract Completion Date	March 15, 2002
Total Number of Change Orders to Date	1
Current Contract Completion Date	March 15, 2002
Actual Completion Date	June 18, 2002
Days Subject to Liquidated Damages	0

Change Order No. 1 Content

<u>Item No.</u>	<u>Description</u>	<u>Amount</u>	<u>Days</u>	<u>Type</u>
1	Air Compressors Layout and Electrical	\$13,996	0	Omission

	Modifications at Fleet Services			
2	Additional Work at Rebuild Shop Dryer	\$6,476	0	Omission
3	Modifications at Administration Building Compressor	\$442	0	Design Change
4	Electrical Modifications at Headworks	\$4,016	0	Omission
5	Time Extension	\$0	95	Other
	Total Change Order No. 1	\$24,930	95	

Job Completion

- This contract is now 100% complete.

PROJECT/CONTRACT COST SUMMARY

Original Contract Price	\$ 287,700.00
Previously Authorized Changes	\$ 0.00
This Change (Add) (Deduct)	\$ 24,930.00
Change Orders to Date	\$ 24,930.00
Percentage Increase to Date	8.66%
Amended Contract Price	\$ 312,630.00

BUDGET IMPACT

- This item has been budgeted. (Section 8, Page 137, FE Projects Plant 1)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

Staff requests a reallocation of funds in the amount of \$27,630 to include costs for this change order and staff labor costs required to complete this project. Contingency budget will be reduced and reallocated to the construction contract and staff labor budget. There is no increase in the total project budget.

ADDITIONAL INFORMATION

None

ALTERNATIVES

None

CEQA FINDINGS

This project is not included in a previously approved Master Plan/EIR. Project is exempt per CEQA Guideline Section 15302 for Facilities Engineering Projects at Plant 1. **ATTACHMENTS**

ATACHMENTS

1. [Budget Information Table](#)
2. [Change Order Status Report](#)
3. [Change Order](#)

August 1, 2002

**ORANGE COUNTY SANITATION DISTRICT
10844 ELLIS AVENUE, P.O. BOX 8127
FOUNTAIN VALLEY, CALIFORNIA 92728-8127**

CHANGE ORDER

Contractor: R. Fox Construction, Inc.

C.O. No.: One (1)

Date: August 28, 2002

Job: Air Compressor Upgrades at Plant No. 1, Job Number SP2001-02

Consultant: R. W Beck

Amount of this Change Order (Add) (~~Deduct~~)

\$24,930.00

In accordance with contract provisions, the following changes in the contract and/or contract work are hereby authorized and as compensation, the following additions to or deductions from the contract price are hereby approved.

ITEM 1 – AIR COMPRESSORS LAYOUT AND ELECTRICAL MODIFICATIONS AT FLEET SERVICES

This item is for labor, material, and equipment to perform modifications to electrical circuits and layout of compressors/dryers installed at the Fleet Services Facility. Work included the following items:

- A. Extend concrete pad and modify power connections: The concrete pad for new compressors was increased in size and the layout of the compressors rotated by 90 degrees to provide additional work space for maintenance of electrical equipment. Cost of this change is \$4,415.00.
- B. Install exhaust fan, temperature controller, selector switch, and provide power to auto drain valves. The exhaust fan and temperature controller was installed at the request of District maintenance staff to dissipate the heat created by the working air compressors and to keep the room temperature below 90 degrees Fahrenheit. The selector switch was added to enable operations staff to have one of the two compressors on line and keep the second compressor in standby position. Power supply to three auto drain valves was not shown on the contract drawings and was installed for proper functioning of the auto drains. Cost of this change is \$8,568.00.
- C. Add new electrical circuit: Work for this item included adding a new 2 pole, 20-amp circuit to panel B-1. The design documents showed power supply to dryers from panel A-1. However there was no available space in the existing panel A-1. Therefore power to dryers was obtained from panel B-1. Cost of this change is \$1,013.00.

Work items listed above were negotiated with the Contractor in accordance with Division 1 Section 48.B.1 of the General Requirements. Reference District's Field Change Order No. 1 and R. Fox Construction Letter Dated June 17, 2002.

CREDIT THIS CHANGE ORDER ITEM:

13,996.00

TIME EXTENSION THIS CHANGE ORDER ITEM:

0 Calendar Days

ITEM 2 – ADDITIONAL WORK AT REBUILD SHOP DRYER

This item is for labor, material, and equipment to perform the following work at the Rebuild Shop dryer location:

- A. Install pre and after filters to dryer unit – These filters were installed to remove moisture and oil/grease from the incoming/outgoing air lines. Work included adding a pre filter, after filter, and an auto drain to the dryer unit. Cost of this change is \$3,035.00.
- B. Install guard posts to incoming air line – Three guard posts (4-feet high, 6 inches diameter) were installed to protect the 6-inch air line feeding the dryer unit. A 9-inch thick concrete slab was partially demolished to install foundation for the guard posts. Cost of this change is \$3,441.00.

This additional work was required to provide a functional system, but was not included in the contract documents. Work items listed above were negotiated with the Contractor in accordance with Division 1 Section 48.B.1 of the General Requirements. Reference District's Field Change Order No. 1 and R. Fox Construction Letter Dated February 14, 2002.

ADDED COST THIS CHANGE ORDER ITEM: \$6,476.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 3 – MODIFICATIONS AT ADMINISTRATION BUILDING COMPRESSOR

This item is for labor, material, and equipment for modifications to the air compressor air lines and drain lines. Copper tubing was requested by District maintenance staff instead of the specified flex tubing for air lines. The air dryer drain line was extended for proper drainage. This additional work was negotiated with the Contractor in accordance with Division 1 Section 48.B.1 of the General Requirements. Reference District's Field Change Order No. 1 and R. Fox Construction Letter Dated May 29, 2002.

ADDED COST THIS CHANGE ORDER ITEM: \$442.00
TIME EXTENSION THIS CHANGE ORDER ITEM: 0 Calendar Days

ITEM 4 – ELECTRICAL MODIFICATIONS AT HEADWORKS

This item is for labor, material, and equipment for the following electrical modifications at the Headworks compressor:

- A. Provide power supply to three auto drain valves: Power supply to auto drains was not shown on the contract drawings. Work included adding a conduit and wires necessary to provide power to the auto drain valves. Cost of this change is \$1,877.00.
- B. Provide power supply to space heaters inside compressor: Power supply to space heaters was not shown on the contract drawings. Work included adding a conduit and wires necessary to provide power to the space heaters. Cost of this change is \$939.00.
- C. Install new 480 V 20 amp 3 pole circuit breaker: The contract drawings showed the compressor to be connected to an existing breaker that is 30 amp rated. However the new

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compressor requires a 20-amp breaker. Therefore a new 20-amp breaker was added to provide proper power supply to the air compressor. Cost of this change is \$1,200.00.

Work items listed above were negotiated with the Contractor in accordance with Division 1 Section 48.B.1 of the General Requirements. Reference District's Field Change Order No. 1 and R. Fox Construction Letter Dated June 4, 2002.

ADDED COST THIS CHANGE ORDER ITEM:	\$4,016.00
TIME EXTENSION THIS CHANGE ORDER ITEM:	0 Calendar Days

ITEM 5 – TIME EXTENSION

This item is for time extension to the contract for delay in procuring air compressors. The contract documents require the contractor to provide heresite coating for the compressor coolers. Heresite is a special coating, which provides good corrosion protection to compressor coolers. During the procurement phase of the project, the heresite coating company (supplier to the contractor) went out of business. A 95-day time extension was required for the contractor to search for another heresite coating company, complete the procurement process, and ship the compressors to the job site. The contractor agreed to provide three temporary air compressors during this delay period to accommodate the District's needs at no additional costs to the contract. This activity was on the critical path of the project schedule and hence delayed completion of the project. The delays were negotiated with the contractor pursuant to Division 00, Section 54 of the General Conditions. Reference R. Fox Construction letter dated February 27, 2002.

ADDED COST THIS CHANGE ORDER ITEM	\$0.00
TIME EXTENSION THIS CHANGE ORDER ITEM	95 Calendar Days

TOTAL COST THIS CHANGE ORDER:	\$24,930.00
TOTAL TIME EXTENSION THIS CHANGE ORDER:	95 Calendar Days

The additional work contained within this Change Order can be performed incidental to the prime work and within the time allotted for the original Contract and any extensions to the Contract time made by this and all previously issued Change Orders. It is therefore mutually agreed that a 95-day extension of time is required for this Change Order, and no direct or indirect, incidental or consequential costs, expenses, losses or damages have been or will be incurred by Contractor, except as expressly granted and approved by this Change Order.

SUMMARY OF CONTRACT TIME

Original Contract Date:	September 17, 2001
Original Contract Time:	180 Calendar Days
Original Completion Date:	March 15, 2002
Time Extension this C.O.:	95 Calendar Days
Total Contract Time Extension:	95 Calendar Days
Revised Contract Time:	275 Calendar Days
Revised Final Completion Due Date:	June 18, 2002
Projected Final Completion Date:	Not Applicable
Time Subject to Liquidated Damages:	0 Calendar Days
Actual Final Completion Date:	June 18, 2002

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Original Contract Price	<u>\$ 287,700.00</u>
This Change (Add) (Deduct)	<u>\$ 24,930.00</u>
Amended Contract Price	<u>\$ 312,630.00</u>

Board Authorization Date: August 28, 2002

ORANGE COUNTY SANITATION DISTRICT

Submitted by:

John Linder, Engineering & Construction Manager Date

Approved by:

Dave Ludwin, Director of Engineering Date

Accepted by:

R. Fox Construction, Inc.

Contractor Date
EDMS #003737291

BUDGET INFORMATION TABLE
Air Compressor Upgrades at Plant No. 1
Job No. SP2001-02

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development				\$ -			\$ -		
Studies/Permitting				\$ -			\$ -		
Consultant PSA	\$ 46,000	\$ 66,000		\$ 66,000	\$ 66,000		\$ 66,000	\$ 60,000	91%
Design Staff	\$ 4,700	\$ 15,000		\$ 15,000	\$ 15,000		\$ 15,000	\$ 12,400	83%
Construction Contract	\$ 300,000	\$ 300,000	\$ 12,630	\$ 312,630	\$ 287,700	\$ 24,930	\$ 312,630	\$ 287,000	92%
Construction (Other)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction Staff	\$ 7,400	\$ 31,300	\$ 15,000	\$ 46,300	\$ 31,300	\$ 15,000	\$ 46,300	\$ 40,000	86%
Contingency	\$ 20,000	\$ 29,000	\$ (27,630)	\$ 1,370			\$ -		
PROJECT TOTAL	\$ 378,100	\$ 441,300	\$ -	\$ 441,300	\$ 400,000	\$ 39,930	\$ 439,930	\$ 399,400	91%
Reimbursable Costs									
PROJECT NET	\$ 378,100	\$ 441,300	\$ -	\$ 441,300	\$ 400,000	\$ 39,930	\$ 439,930	\$ 399,400	91%

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CHANGE ORDER STATUS REPORT

AIR COMPRESSOR UPGRADES AT PLANT NO. 1

JOB NO. SP2001-02

ITEM	APPROVAL DATE	CONTRACT COST	CONTRACT COST TO DATE	PERCENTAGE INCREASE (CUMULATIVE)	AUTHORIZED TIME (DAYS)	AUTHORIZED TIME TO DATE (DAYS)
CONTRACT	6/27/2001	\$ 287,700	\$ 287,700		180	180
CO NO. 1	PENDING	\$ 24,930	\$ 312,630	8.66%	95	275

PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-51	Item Number

FROM: David Ludwin, Director of Engineering
Originator: Jim Burror, Project Manager

SUBJECT: INTERPLANT MICROWAVE DATA TRANSMISSION
PROJECT, JOB NO. SP-44

GENERAL MANAGER'S RECOMMENDATION

Accept Interplant Microwave Data Transmission Project, Job No. SP-44, as complete, authorizing execution of the Notice of Completion and approving the Final Closeout Agreement.

SUMMARY

Background

- This project provides a redundant interplant data transmission system to backup the existing fiber optic system by installing a two-way microwave system.
- Microwave equipment was installed on the roof of the Plant No. 1, Central Generation Facility, and the roof of the Plant No. 2, Ocean Outfall Booster Station (OOBS) Facility. This microwave system is connected to the existing network equipment in each of these buildings.
- The plans and specifications were prepared by Lee and Ro, Inc., and the contract was awarded to Archer Western Contractors, Ltd., on November 2, 2001, by the Planning, Design, and Construction (PDC) Committee.

Contract Schedule

Original Contract Date: January 8, 2002
 Original Completion Date: April 8, 2002
 Total Number of Change Orders to Date: 1
 Actual Completion Date: April 8, 2001
 Days Subject to Liquidated Damages: N/A
 Liquidated Damages Assessment: N/A

Job Completion

- This contract is now 100% complete.

PROJECT/CONTRACT COST SUMMARY

Original Contract Price \$ 139,500.00
 Change Orders \$ 1,403.75

Percent Increase	1%
Amended Contract Price	\$ 140,903.75

BUDGET IMPACT

- This item has been budgeted. (Line item: Page 121 FY01-02 Budget)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

ADDITIONAL INFORMATION

None

ALTERNATIVES

None

CEQA FINDINGS

This project is categorically exempt. A Notice of Exemption was filed on November 2, 2000.

ATTACHMENTS

- [Budget Information Table](#)
- [Change Order Status Report](#)

August 1, 2002

CHANGE ORDER STATUS REPORT
INTERPLANT MICROWAVE PROJECT
JOB NO. SP-44

ITEM	APPROVAL DATE	CONTRACT COST	CONTRACT COST TO DATE	PERCENTAGE INCREASE	AUTHORIZED TIME (DAYS)	AUTHORIZED TIME TO DATE (DAYS)
CONTRACT	11/28/01	\$139,500	\$0		90	90
CO NO. 1	Pending	\$1,431	\$0	1.03%	0	90

Approved by GM per delegated authority by Board Resolution 99-23

BUDGET INFORMATION TABLE
INTERPLANT MICROWAVE PROJECT
JOB NO. SP-44

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE/ DECREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development	\$ 10,000	\$ 10,000		\$ 10,000	\$ 10,000		\$ 10,000	\$ 8,548	85%
Studies/Permitting	\$ 48,000	\$ 28,000		\$ 28,000	\$ 28,000		\$ 28,000	\$ 17,968	64%
Consultant PSA	\$ 15,000	\$ 15,000		\$ 15,000	\$ 14,980		\$ 14,980	\$ 14,980	100%
Design Staff	\$ 9,000	\$ 9,000		\$ 9,000	\$ 9,000		\$ 9,000	\$ 9,000	100%
Construction Contract	\$ 363,000	\$ 363,000		\$ 363,000	\$ 140,904		\$ 140,904	\$ 140,904	100%
Construction Administration	\$ 20,000	\$ 20,000		\$ 20,000	\$ 20,000		\$ 20,000	\$ 13,546	68%
Construction Inspection	\$ -	\$ 20,000		\$ 20,000	\$ 20,000		\$ 20,000	\$ 3,955	20%
Contingency	\$ 34,000	\$ 34,000		\$ 34,000	\$ -		\$ -	\$ -	0%
PROJECT TOTAL	\$ 499,000	\$ 499,000	\$ -	\$ 499,000	\$ 242,884	\$ -	\$ 242,884	\$ 208,901	86%
Reimbursable Costs	\$ -	\$ -					\$ -	\$ -	0%
PROJECT NET	\$ 499,000	\$ 499,000	\$ -	\$ 499,000	\$ 242,884	\$ -	\$ 242,884	\$ 208,901	86%

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PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-52	Item Number

FROM: David Ludwin, Director of Engineering
Originator: Jim Burror, Project Manager

SUBJECT: PATIO AREA UPGRADE AT PLANT NO. 1, JOB NO. SP1999-075

GENERAL MANAGER'S RECOMMENDATION

Accept Patio Area Upgrade at Plant No.1, Job No. SP1999-075, as complete, authorizing execution of the Notice of Completion and approving the Final Closeout Agreement.

SUMMARY

Background

- Patio Area Upgrade at Plant No.1, Job No. SP1999-075, includes the improvement of the pathways behind the Control Center for better access to the patio area and parking lot.
- The plans and specifications were prepared in-house and the contract was awarded to Southland Construction on June 25, 2001 by the General Manager.
- The completion of the project and execution of a close agreement has been delayed due to the Contractor's relocation and change of telephone number.

Contract Schedule

Original Contract Date:	October 23, 2001
Original Completion Date:	December 22, 2001
Total Number of Change Orders to Date:	1
Actual Completion Date:	December 22, 2001
Days Subject to Liquidated Damages:	N/A
Liquidated Damages Assessment:	N/A

Job Completion

- This contract is now 100% complete.

PROJECT/CONTRACT COST SUMMARY

Original Contract Price	\$	39,000.00
Change Orders	\$	1,950.00
Percent Increase		5%
Amended Contract Price	\$	40,950.00

BUDGET IMPACT

- This item has been budgeted. (Line item: Page 137 FY01-02 Budget)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

ADDITIONAL INFORMATION

None

ALTERNATIVES

None

CEQA FINDINGS

This project is categorically exempt. A Notice of Exemption was filed on November 2, 2000.

ATTACHMENTS

[Budget Information Table](#)

[Change Order Status Report](#)

BUDGET INFORMATION TABLE
PATIO AREA UPGRADE AT PLANT NO.1
JOB NO. SP 1999-075

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development	\$ 4,000	\$ 4,000		\$ 4,000	\$ 4,000	\$ -	\$ 4,000	\$ 4,000	100%
Studies/Permitting	\$ -	\$ -		\$ -			\$ -		0%
Consultant PSA	\$ -	\$ -		\$ -			\$ -		0%
Design Staff	\$ 40,000	\$ 40,000		\$ 40,000	\$ 40,000	\$ -	\$ 40,000	\$ 40,000	100%
Construction Contract	\$ 40,000	\$ 40,950		\$ 40,950	\$ 40,950		\$ 40,950	\$ 40,950	100%
Construction Administration	\$ 2,000	\$ 4,000		\$ 4,000	\$ 4,000		\$ 4,000	\$ 3,906	98%
Construction Inspection	\$ 4,100	\$ 8,500		\$ 8,500	\$ 8,500		\$ 8,500	\$ 8,500	100%
Contingency	\$ 4,000	\$ -		\$ -			\$ -		0%
PROJECT TOTAL	\$ 94,100	\$ 97,450	\$ -	\$ 97,450	\$ 97,450	\$ -	\$ 97,450	\$ 97,356	100%
Reimbursable Costs									
PROJECT NET	\$ 94,100	\$ 97,450	\$ -	\$ 97,450	\$ 97,450	\$ -	\$ 97,450	\$ 97,356	100%

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August 1, 2002

CHANGE ORDER STATUS REPORT
PATIO AREA UPGRADE AT PLANT NO.1
JOB NO. SP99075

ITEM	APPROVAL DATE	CONTRACT COST	CONTRACT COST TO DATE	PERCENTAGE INCREASE	AUTHORIZED TIME (DAYS)	AUTHORIZED TIME TO DATE (DAYS)
CONTRACT	6/25/01	\$39,000	\$36,858		60	60
CO NO. 1	12/11/01	\$1,950	\$1,950	5.00%	0	60

Approved by GM per delegated authority by Board Resolution 99-23

PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-53	Item Number

FROM: David Ludwin, Director of Engineering
Originator: Jim Burror, Engineer

SUBJECT: EFFLUENT PATHOGEN REDUCTION ALTERNATIVES PLAN,
JOB NO. J-40-6

GENERAL MANAGER'S RECOMMENDATION

Adopt Resolution No. OCSD 02-___, approving agreement with the State Energy Resources Conservation and Development Commission for purposes of conducting a pathogen reduction pilot testing program.

SUMMARY

- Provisions in Senate Bill 28X, Section 13 (b) specify the availability of funds (\$250,000) that, in consultation with the Orange County Sanitation District (OCSD), are to be used for studies to remediate or mitigate effects of shoreline water contamination located in the vicinity of the City of Huntington Beach.
- This work is to be performed concurrently with the Huntington Beach Investigation that is currently being performed by the OCSD.
- The OCSD has submitted an application for a grant in the amount of \$250,000 to assist with design studies and the execution of a process for disinfecting the wastewater ocean discharge of the OCSD.
- Although no direct evidence exists that the State's recreational water quality standards have been exceeded, the Staff recommended at the March 2002 meeting of the Board of Directors of OCSD, a program of pathogen reduction using a disinfection technology in order to assure that water standards are not violated.
- This grant will not fully fund the program, but it will expand the proposed testing of the disinfection technologies. Implementation of disinfection will eliminate the possibility of the discharge plume affecting water quality in the vicinity of the City of Huntington Beach, California.

PROJECT/CONTRACT COST SUMMARY

The total proposed budget for the Effluent Pathogen Reduction Alternatives Plan, Job No. J-40-6, is \$900,000, of which \$250,000 is from the California Energy Commission. This grant funding will increase the project budget by \$250,000, but OCSD's contribution to the project will remain at \$650,000. See the attached Budget Information Table for more information.

BUDGET IMPACT

- This item has been budgeted. (Line item: Page 129)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

Under “Proposed Budget Increase,” an additional \$250,000 is being added by the grant funding from the California Energy Commission. A budget breakdown is included in the attached Budget Information Table for this project.

ADDITIONAL INFORMATION

On February 11, 2002, during routine ocean monitoring the Orange County Sanitation District’s (District) staff observed evidence of the plume surfacing three miles off shore. In addition, the plume was observed within a half-mile of Newport Beach at a depth of 45 feet below the surface. This did not demonstrate that the District’s release of effluent to the ocean impacted the beach or recreational waters. But, it suggests that a mechanism exists whereby offshore winds mix deeper water into the surface layers carrying the treated wastewater release up to the surface, or near the surface.

The bacterial values detected did not exceed applicable water quality standards, but this was the first time the plume has been found surfacing several miles offshore. Regardless, District staff approached the Board of Directors in March 2002 to consider disinfection of the ocean outfall effluent. The Board of Directors designated the use of bleach (with sodium bisulfite dechlorination) as the option for immediate implementation; and authorized District staff to expeditiously complete the work necessary to get disinfection operational. The Board of Directors also noted that the District should consider other disinfection technologies for future implementation.

ALTERNATIVES

Do not execute the agreement for grant funds from the State Energy Resources Conservation and Development Commission. This would limit the project scope to the current funding levels.

CEQA FINDINGS

The recommended action is for additional funding and does not require CEQA documentation. Should a decision be made to proceed with projects outside the certified 1999 Strategic Plan EIR and the 1989 Master Plan EIR preferred alternatives, further CEQA analysis may be required.

ATTACHMENTS

1. [Budget Information Table](#)
2. Resolution 02-__

BUDGET INFORMATION TABLE
EFFLUENT PATHOGEN REDUCTION ALTERNATIVES PLAN
JOB NO. J-40-6

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development	\$ 20,000	\$ 20,000		\$ 20,000	\$ 20,000		\$ 20,000	\$ 3,783	19%
Studies/Permitting	\$ 205,000	\$ 545,000	\$ 250,000	\$ 795,000	\$ 204,858		\$ 204,858	\$ 8,745	4%
Consultant PSA									
Design Staff									
Construction Contract									
Construction Administration									
Construction Inspection									
Contingency	\$ 25,000	\$ 85,000		\$ 85,000					
PROJECT TOTAL	\$ 250,000	\$ 650,000	\$ 250,000	\$ 900,000	\$ 224,858		\$ 224,858	\$ 12,528	6%
Reimbursable Costs			\$ 250,000	\$ 250,000					0%
PROJECT NET	\$ 250,000	\$ 650,000		\$ 650,000	\$ 224,858		\$ 224,858	\$ 12,528	6%

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August 1, 2002

PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-54	Item Number

FROM: David Ludwin, Director of Engineering
Originator: Jim Burror, Engineer

SUBJECT: INTERIM STRATEGIC PLAN UPDATE, JOB NO. J-40-8

GENERAL MANAGER'S RECOMMENDATION

(1) Approve a budget amendment of \$20,000 for Interim Strategic Plan Update, Job No. J-40-8, for a total project budget of \$707,340; and (2) Approve Addendum No. 2 to the Professional Services Agreement with Camp Dresser and McKee for additional engineering services for Interim Strategic Plan Update, Job No. J-40-8, for an additional amount of \$30,000, increasing the total amount not to exceed \$627,340.

SUMMARY

- Since adoption of the Strategic Plan in 1999, significant developments have taken place that will impact the Orange County Sanitation District's (District) operations such as: bans on land application of Class "B" biosolids, persistent beach warnings and closures, urban runoff diversions to sanitary sewers, final design of the Groundwater Replenishment System, lower than projected wastewater flows, and elevated influent ammonia concentrations.
- These changes have required that the District revisit the 1999 Strategic Plan to provide the Board of Directors, the Public, and Staff with new information to help us make decisions about our Ocean Discharge Permit application in 2002.
- Addendum No. 2 includes additional services for refinement of Santa Ana River Interceptor (SARI) diversion costs, a sensitivity analysis of the per capita water usage, additional facilities model runs to capture revised planning assumptions, and additional air quality cost and rate calculations.
- The additional work is required to better inform the Board of Directors on the impacts that the level of treatment decision will have on the ratepayers and the environment.
- The additional analysis by Camp Dresser and McKee for the Interim Strategic Plan Update will increase the not to exceed fee amount by \$30,000 to a total of \$627,340.
- The budget also requires an amendment of \$20,000 to match the proposed Consultant fee.

PROJECT/CONTRACT COST SUMMARY

The total proposed budget for the Interim Strategic Plan Update, Job No. J-40-8, is \$707,340. Authorization of \$30,000 from the Consultant Professional Services Agreement (PSA) is being requested. See the attached Budget Information Table for more information.

BUDGET IMPACT

- This item has been budgeted. (Line item: Approved by the Board of Directors on 10/24/01.)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

Under "Proposed Budget Increase," an additional \$20,000 is being requested and \$10,000 is being reallocated from contingency to adjust the budget for the additional consulting services for the Interim Strategic Plan Update, Job No. J-40-8, to a total of \$627,340. The proposed source of funding is from the Orange County Sanitation District's (District) Capital Improvement Reserves. A budget breakdown is included in the attached Budget Information Table for this project.

ADDITIONAL INFORMATION

The proposed Interim Strategic Plan Update has developed updated Capital Improvement Program (CIP) information, and updated projected operational costs and fees for our various user categories. The draft update materials were presented at the June 16, 2002, Special Board Meeting in an effort to aid in the District's decision on makeup of the Ocean Discharge Permit (NPDES Permit) application. It is Staff's intention to follow the interim update with another, more comprehensive, Strategic Plan Update. That update would address changes such as service area development and demographics, and the application of new technologies for secondary treatment alternatives, odor control, disinfection, and solids management.

ALTERNATIVES

Do not complete the Interim Strategic Plan Update. Under this alternative, we would be forced to rely on the existing 1999 Strategic Plan analysis.

CEQA FINDINGS

The recommended action is for conducting planning-level engineering and financial studies, and does not require California Environmental Quality Act (CEQA) documentation. Should a decision be made to proceed with an alternative other than the Certified 1999 Strategic Plan and the 1989 Master Plan preferred alternatives, further CEQA analysis may be required.

ATTACHMENTS

1. [Budget Information Table](#)
2. [PSA Status Report](#)

Professional Services Agreement Status Report

Interim Strategic Plan Update

Job No. J-40-8

Total Proposed Project Budget: \$707,340
 Consultant: Camp, Dresser and McKee
 Start Date of Project: September 6, 2001

<u>Date</u>	<u>Addendum</u>	<u>Description</u>	<u>Cost</u>	<u>Accumulated Costs</u>
10/24/01	Original PSA	Professional services for the preparation of the Interim Strategic Plan Update	\$349,730	\$349,730
3/27/02	#1	Additional services for the preparation of the Interim Strategic Plan Update including: 1.) 2 more treatment scenario alternatives 2.) 13 more facility treatment alternatives 3.) 3 more Capital Improvement Programs 4.) 3 more Rate Analyses 5.) Update two areas in the existing Strategic Plan facility cost model.	\$247,610	\$597,340
Pending	#2	Additional services for the preparation of the Interim Strategic Plan Update including: 1.) Refinement of SARI diversion costs 2.) Sensitivity analysis of the per capita water usage 3.) Additional facilities model runs to capture revised planning assumptions 4.) Additional air quality cost and rate calculations	\$30,000	\$627,340

BUDGET INFORMATION TABLE
INTERIM STRATEGIC PLAN UPDATE
JOB NO. J-40-8

PROJECT/TASK	ORIGINAL AUTHORIZED BUDGET	CURRENT PROJECT BUDGET	PROPOSED BUDGET INCREASE/ DECREASE	PROPOSED REVISED BUDGET	FUNDS AUTHORIZED TO DATE	THIS AUTHORIZATION REQUEST	PROPOSED TOTAL AUTHORIZATION	ESTIMATED EXPENDITURE TO DATE	ESTIMATED EXPENDED TO DATE(%)
Project Development									
Studies/Permitting									
Consultant PSA	\$ 350,000	\$ 597,340	\$ 30,000	\$ 627,340	\$ 597,340	\$ 30,000	\$ 627,340	\$ 414,687	66%
Design Staff	\$ 80,000	\$ 80,000		\$ 80,000	\$ 80,000		\$ 80,000	\$ 67,983	85%
Construction Contract									
Construction Administration									
Construction Inspection									
Contingency	\$ 10,000	\$ 10,000	\$ (10,000)						
PROJECT TOTAL	\$ 440,000	\$ 687,340	\$ 20,000	\$ 707,340	\$ 677,340	\$ 30,000	\$ 707,340	\$ 482,670	68%
Reimbursable Costs									
PROJECT NET	\$ 440,000	\$ 687,340	\$ 20,000	\$ 707,340	\$ 677,340	\$ 30,000	\$ 707,340	\$ 482,670	68%

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PDC COMMITTEE

AGENDA REPORT

Orange County Sanitation District

Meeting Date 08/01/02	To Bd. of Dir. 08/28/02
Item Number PDC02-55	Item Number

FROM: David A. Ludwin, P.E., Director of Engineering
 Originator: Matt Smith, Acting Chief Project Officer

SUBJECT: Program Management Consultant

GENERAL MANAGER'S RECOMMENDATION

(1) Award a Professional Services contract to Integrated Program Management Consultants for program management consultant services in an amount not to exceed \$15,000,000, and for a period not to exceed five years; and (2) Establish an initial FY2002-03 Program Management Consultant budget not to exceed \$3,935,274.

SUMMARY

- Implementation of the \$1.8 Billion in projects currently identified in the 20-year Strategic Plan will increase the annual Engineering Capital Expenditures from \$80 Million in FY2002 to over \$150 Million each year for several years thereafter. This does not include the future increase in work that will be created as a result of the decision to move to a higher level of treatment
- The proposed Program Management Consultant (PMC) will help Staff manage the temporary increase in capital project work that is estimated to last between five to ten years. The District's Board of Directors had previously adopted a five-year District-wide staffing plan, which includes the Engineering Department's plan to hire additional (up to 44) Limited Term Employees as the Capital Improvement Program (CIP) ramps up. Based on Staff's experience with Limited Term Employees, as well as interviews with Engineering Consultants and other Public Agencies with similar size CIPs, Staff recommends using a PMC to fulfill our highly specialized and temporary staffing needs. A "Program" approach, as opposed to hiring individuals, offers a single point of responsibility, vast and relatively immediate resources, consistency, standardization, flexibility, specialized talent, an integrated team approach, and skills transferred to District staff.
- This fiscal year the PMC will develop a comprehensive plan for implementation of the CIP, including the increase in secondary treatment. Such planning, scheduling, and budgeting is necessary to obtain regulatory approval, funding and overall success. Another goal of this years effort will be to reduce the overall CIP budget through good planning, engineering, and efficiencies. A system of goals and performance measures will be developed by which Staff can monitor the success of the program. Feedback and reporting will be done quarterly to the Planning, Design, and Construction Committee and Board of Directors on these efforts. Staff will also establish an estimated cost at the beginning of each Fiscal Year (FY), based on a comprehensive annual planning effort.

- In light of the recent Board of Directors' (Board) decision to pursue higher treatment levels, Staff anticipates a significant increase in capital project work over the existing projections. Consequently, the \$15 Million Program Management Consultant (PMC) cost estimate given at the April Planning, Design, and Construction Committee meeting will increase significantly. The magnitude of the increase will be determined over the next six to nine months as Staff plans the increased workload. At that time, Staff will recommend increasing the PMC contract appropriately.
- On April 18, 2002, a Request for Qualifications was sent to 37 consulting firms in an effort to find a qualified PMC. Six Statement of Qualifications were received on May 9, 2002 from the following firms: Fluor Corporation, Earthtech, Montgomery Watson Harza, Black & Veatch Corporation, Jacobs, Inc., and Integrated Program Management Consultants (IPMC). IPMC is a joint venture of CH2MHill and Parsons.
- Staff determined that five of the six firms should continue in the selection process and receive a Request for Proposal. Subsequently, one firm requested they not be considered further in the selection process. On July 11, 2002, all four of the remaining firms were interviewed by a five-member panel consisting of District management staff from Engineering and Operations and Maintenance. Please see the attached "Staff Evaluation of Proposals." Staff is recommending award of the PMC contract to IPMC.

PROJECT/CONTRACT COST SUMMARY

The estimated costs for the remainder of this FY includes the following:

Validate and Prioritize the Capital Improvement Program (CIP) \$ 910,461

This task is to conduct an analysis of the existing CIP plan to determine the need for each project (200 total), its cost, timing, and duration; to analyze the interrelationships and dependency with other projects and to determine the necessary resources to manage the projects. An assessment of the Scope of Work, cost estimate, schedule, and predecessor/successor for each project will be prepared. This planning effort will include analyzing projects necessary to comply with the Board's July 17, 2002 decision to move to a higher level of treatment. Workshops will be held to resolve validation issues. Project budgets for FY2003-04 will be developed.

Develop and Supplement a Project Controls System \$1,049,985

Working with the Orange County Sanitation District, IPMC will conduct a needs assessment workshop, establish a work breakdown structure and tools for implementation, develop a master schedule of all projects and define the interrelationships, develop the costs, project status and schedule reports. This phase of work will also develop a capital program website and collaboration tools and enhance the data collection and document control system.

Engineering Staff Augmentation \$1,826,028

This item is to provide staff augmentation to the Planning Division, Project Management Office, and Engineering and Construction Division as requested. Work will include preparation of a program management plan, project procedures, program goals, metrics and success factors, and a training program. Project managers, engineers, and construction inspectors will be

provided to satisfy immediate staffing needs.

Other Direct Costs **\$ 148,800**

This item includes providing vehicles, travel costs, and cell phones for Program Management Consultant (PMC) staff.

TOTAL **\$3,935,274**

No additional budget is required to hire a PMC. Funding will come from each individual project budget and is already included in the 20-year Capital Improvement Program (CIP) projections. It is expected that the Orange County Sanitation District (District) would enter into a multi-year Professional Service Agreement with the selected PMC and negotiate a yearly not to exceed contract amount. This was originally estimated at a total of \$15 Million over the next five years based on the currently scheduled projects. Due to the Board of Director's decision to move to a higher level of treatment, Staff anticipates a significant increase in capital project work. The magnitude of this increase will be determined over the next six to nine months as Staff plans the workload. It is anticipated that Staff will request an increase in the contract duration and budget appropriately.

BUDGET IMPACT

- This item has been budgeted. (Line item: N/A)
- This item has been budgeted, but there are insufficient funds.
- This item has not been budgeted.
- Not applicable (information item)

PMC management, overall planning efforts, cost controls and reporting and skills transfer will be proportionately charged to the Capital Improvement Program projects. A budget breakdown is not included because the funding for this effort will come from individual project budgets. Each Fiscal Year (FY), as projects are planned, scheduled, budgeted, and resource needs identified, a projected cost will be presented to the Planning, Design, and Construction Committee for approval. Quarterly updates on the entire program will also be provided.

ADDITIONAL INFORMATION

The Program Management Consultant (PMC) approach is currently being used by Public Agencies across the United States. Most of these Public Agencies indicate limited in-house resources, a tight schedule and budget, and a desire to be more "businesslike" as reasons they are using a PMC. Many large consulting firms offer this service including Jacobs, Inc., Montgomery Watson Harza, Carollo Engineers, Black & Veatch Corporation, CH2MHill, Inc., and Parsons. According to recent research done by one of the major firms listed above, an organization that integrates a PMC into their existing staff is the most likely to succeed. An integrated approach is one in which the consultant's staff is supplementary to existing staff and is provided to fill specific staffing needs or deficiencies. This integrated approach has been, and will continue to be, Staff's approach to a PMC. This includes having the PMC work on-site in District provided offices. Working on-site along side District staff has the additional benefits of lowering the billed overhead rate and facilitating the integrated approach to staffing the program.

ALTERNATIVES

Continue to use Limited Term Employees to address temporary staffing needs.

CEQA FINDINGS

None.

ATTACHMENTS

[Staff Evaluation of Proposals](#)

PROGRAM MANAGEMENT CONSULTANT (PMC)

Staff Evaluation of Proposals

The following consulting firms received a Request for Proposal:

- Black & Veatch Corporation
- Montgomery Watson Harza
- Integrated Program Management Consultants (a joint venture between CH2MHill and Parsons)
- Jacobs Inc.

All four firms submitted responsive proposals on June 25, 2002. An Orange County Sanitation District (District) review team of Engineering and Operations/Maintenance management staff reviewed and scored the written proposals. Based on this review, all four firms were invited to participate in the interview process, which was held on July 11, 2002. The written proposal and the oral interviews were rated and the two scores averaged. Each firm was rated in each of the six categories listed below:

1. Project approach and understanding of the Scope of Work
2. Plan for managing and performing the initial Scope of Work items requiring evaluation and planning
3. Applicable related project experience
4. Applicable management team qualifications
5. Applicable staff qualifications
6. Team organization and use of sub-consultant

After conducting the interviews, the evaluation team met to discuss the firms and consider the fee proposals. The following summarizes the scoring and ranking results for the four firms:

- | | |
|---|--------------|
| • Integrated Program Management Consultants | 1,917 Points |
| • Black & Veatch Corporation | 1,735 Points |
| • Montgomery Watson Harza | 1,730 Points |
| • Jacobs Inc. | 1,548 Points |

The following is a summary of how the evaluation team collectively reviewed the top ranked firm:

Integrated Programs Management Consultants (IPMC)

The IPMC team has extensive experience and knowledge in the area of program management. Recent program management experience includes a \$775 Million Capital Improvement Program for San Diego and a \$2 Billion Water Supply Program for the Southern Nevada Water Authority. The Parsons CH2MHill team is also providing integrated program management services similar to those required by the District for the \$2.6 Billion Seattle Tacoma Airport Expansion Project.

The proposed IPMC management team brings many years of relevant experience. They provided the best understanding of the programs goals, a solid approach, and excellent grasp of

the integration transition issues we face. IPMC also addressed the issues other departments within the District will face as Engineering ramps up. They have an excellent understanding of the up-front planning that will be required for a successful program. IPMC's proposed cost and control methods are useful and proven. Their software will integrate with existing District software and systems.

The resources of IPMC are huge. They have the financial stability, depth, range of people, and flexibility the District needs to handle workload variations as well as new projects which may arise due to secondary treatment and urban runoff issues.

Fee Proposals

After completing the interview process and finalizing the consultant rankings, the sealed fee proposals that were submitted by the four interviewed firms were opened.

All four firms were requested to submit a range of salaries for various positions such as project manager, engineer, and construction inspector. This range of salaries was similar for all four firms. The District fixed the profit at five percent. The difference between the firms was in the labor burden/overhead percentage. Those percentages are as follows:

- Jacobs Inc. 129%
- IPMC 145%
- Black & Veatch Corporation 150%
- Montgomery Watson Harza 155%

Staff believes that IPMC's proposed fee structure is fair and reasonable. Each person assigned to work on District projects will be approved by District management with respect to education, experience, and salary. A cost of living adjustment of three percent or the Orange County Cost of Living Index, whichever is less, will be made to the fee structure each fiscal year.