

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

869



FROM: Waste Management Department

SUBMITTAL DATE:
October 9, 2008

SUBJECT: Construction of Gas Collection System at the Edom Hill Sanitary Landfill - Contract Change Order No. 1

RECOMMENDED MOTION: That the Board of Supervisors approve Contract Change Order No. 1 (CCO No.1) to the contract for the Gas Collection System Construction at the Edom Hill Sanitary Landfill, and authorize the Chairman to execute it.

BACKGROUND: On March 18, 2008, the Board awarded Argen Environmental Inc. (Contractor) a contract in the amount of \$489,188.00 for the Construction of the Gas Collection System at the Edom Hill Sanitary Landfill. The Department has identified eight items of work that need to be implemented under this contract in order to complete the project to comply with regulatory requirements. (Continued)

FORM APPROVED COUNTY COUNSEL
BY: Joe S. Rank 10/9/08
DATE
JOE S. RANK
Departmental Concurrence

Hans W. Kernkamp, General Manager-Chief Engineer

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 71,002.84	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ N/A	Budget Adjustment:	No
	Annual Net County Cost:	\$ N/A	For Fiscal Year:	2009
SOURCE OF FUNDS: Waste Management Department Remediation Funds			Positions To Be Deleted Per A-30	<input type="checkbox"/>
			Requires 4/5 Vote	<input checked="" type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY: Alex Gann
Alex Gann

County Executive Office Signature

- Policy
- Policy
- Consent
- Consent

Dep't Recomm.:
Per Exec. Ofc.:

Prev. Agn. Ref.: 12.1 (3/18/08)

District: 4

Agenda Number:

12.1

The eight (8) items are described as follows:

1. Increase the total length trenching and earthwork from 2,400 feet to 3,404 feet. The extra 1,004 feet of trenching and earthwork was a result of additional bench road crossings. Additional road crossings were required due to a difference between the closure design, which the gas collection system design was based on, and final as-built of the landfill closure. Additional trenching was also added at each bench crossing to allow for a slight angle, eliminating the need for elbows that would decrease the efficiency of the system. This revision will result in a cost increase of \$16,867.20 based on the agreed upon contract cost of \$16.80 per foot.
2. Increase the total length of supply and install 8" HDPE SDR 17 header pipe from 9,050 feet to 9,170 feet. The extra 120 feet of supply and install 8" HDPE SDR header pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$1,464.00 based on agreed upon contract cost of \$12.20 per foot.
3. Increase the total length of install 8" HDPE SDR 17 header pipe from 2,800 feet to 2,816 feet. The extra 16 feet of install and supply 8" HDPE SDR header pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$94.40 based on agreed upon contract cost of \$5.90 per foot.
4. Increase the total length of supply and install 4" SDR 17 lateral pipe from 2,645 feet to 2,957 feet. The extra 312 feet of supply and install 4" HDPE SDR lateral pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$1,934.40 based on agreed upon contract cost of \$6.20 per foot.
5. Increase the total length of Supply and Install 3" HDPE SDR 17 lateral pipe from 6,880 feet to 7,794 feet. The additional 914 feet of supply and install 3" HDPE SDR 17 lateral pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$3,610.30 based on agreed upon contract cost of \$3.95 per foot.
6. Increase the total quantity of disposal of refuse from 315 tons to 693.5 tons. The extra 378.5 tons of disposal of excavated refuse was due the additional 1,004 feet of trenching required in Bid Item 3. This revision will result in a cost increase of \$28,009.00 based on the agreed upon contract cost of \$74 for each ton.

7. Excavate deeper than the contract states to excavate and extend existing buried gas wells. Eighteen existing vertical gas wells were cut and capped below grade before closure construction started to protect them during closure construction. The contract stated that the wells would be two to three feet deep below grade and that they would need to be excavated and extended. During closure construction, the final as-built grades varied from the design grades and the movement and vibration of the heavy equipment used during closure construction resulted in the telescopic wells sinking to four to eight feet below grade. This extra work is for time and materials at an agreed upon per hour fee of \$336.15 based on labor and equipment charges based on the published "State of California's DOT Labor Surcharge and Equipment Rental Rates". This work will result of an increase of \$15,462.90 for 46 hours work.

8. Based on field conditions, the design and location of the landfill gas header bridge entering the flare station was changed to allow for proper gas condensate drainage. This extra work is for time and materials at an agreed upon per hour fee of \$222.54 based on the published "State of California's DOT Labor Surcharge and Equipment Rental Rates" for labor and forklift equipment. The work will result in an increase of \$3,560.64.

Each of these items is fully described in the attached Contract Change Order No. 1. The total Change Order results in a net increase in the project amount of \$71,002.84. If approved, CCO No. 1 increases the total contract amount from \$489,188 to \$560,190.84.

Budget for this additional work will be provided from Fund 40200, Department ID - 450010000.

AMD:mdh:nmr

PD#68107v2

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

Project: Construction of a Landfill Gas Collection System at the Edom Hill Sanitary Landfill Sheet 1 of 3

CONTRACT CHANGE ORDER NO. 1

To: Argen Environmental Inc., Contractor, you are hereby directed to make the herein described changes from the plans and specifications or to do the following described work not included in the plans and specifications.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE GENERAL MANAGER-CHIEF ENGINEER OF THE WASTE MANAGEMENT DEPARTMENT OR THE BOARD OF SUPERVISORS OF RIVERSIDE COUNTY.

Description of work to be done, estimate of quantities, and prices to be paid. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. Change requested by Riverside County:

Contract Bid Item 3 – "Trenching and Earthwork"

Increase the total length trenching and earthwork from 2,400 feet to 3,404 feet. The extra 1,004 feet of trenching and earthwork was a result of additional bench road crossings. Additional road crossings were required due to a difference between the closure design, which the gas collection system design was based on, and final as-built of the landfill closure. Additional trenching was also added at each bench crossing to allow for a slight angle, eliminating the need for elbows that would decrease the efficiency of the system. This revision will result in a cost increase of \$16,867.20 based on the agreed upon contract cost of \$16.80 per foot.

Contract Bid Item 4 – "Supply and Install 8" HDPE SDR 17 Header Pipe"

Increase the total length of supply and install 8" HDPE SDR 17 header pipe from 9,050 feet to 9,170 feet. The extra 120 feet of supply and install 8" HDPE SDR header pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$1,464.00 based on agreed upon contract cost of \$12.20 per foot.

Contract Bid Item No. 5 – "Install 8" HDPE SDR 17 Header Pipe"

Increase the total length of install 8" HDPE SDR 17 header pipe from 2,800 feet to 2,816 feet. The extra 16 feet of install and supply 8" HDPE SDR header pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$94.40 based on agreed upon contract cost 5.90 per foot.

Estimated Cost: Decrease \$ _____ or Increase \$ 71,002.84

Submitted by: _____ Date: _____

Approved by: _____ Date: _____
General Manager-Chief Engineer
Waste Management Department

_____ Date: _____
Chairman, Board of Supervisors

We, the undersigned Contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may be otherwise noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above.

Accepted: _____ Date: _____ Contractor: _____

By: _____ Title: _____

If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to the proceeding with the ordered work and filing a written protest within the time therein specified.

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

Project: Construction of a Landfill Gas Collection System at the Edom Hill Sanitary Landfill Sheet 2 of 3

CONTRACT CHANGE ORDER NO. 1

To: Argen Environmental Inc., Contractor, you are hereby directed to make the herein described changes from the plans and specifications or to do the following described work not included in the plans and specifications.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE GENERAL MANAGER-CHIEF ENGINEER OF THE WASTE MANAGEMENT DEPARTMENT OR THE BOARD OF SUPERVISORS OF RIVERSIDE COUNTY.

Description of work to be done, estimate of quantities, and prices to be paid. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. Change requested by Riverside County:

Contract Bid Item 6 – “Supply and Install 4” HDPE SDR 17 Lateral Pipe”

Increase the total length of supply and install 4” SDR 17 lateral pipe from 2,645 feet to 2,957 feet. The extra 312 feet of supply and install 4” HDPE SDR lateral pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$1,934.40 based on agreed upon contract cost of \$6.20 per foot.

Contract Bid Item 7 – “Supply and Install 3” HDPE SDR 17 Lateral Pipe”

Increase the total length of Supply and Install 3” HDPE SDR 17 lateral pipe from 6,880 feet to 7,794 feet. The additional 914 feet of supply and install 3” HDPE SDR 17 lateral pipe was a result of the difference in closure design and final as-built of the landfill closure. This revision will result in a cost increase of \$3,610.30 based on agreed upon contract cost of \$3.95 per foot.

Contract Bid Item 12 – “Disposal of Refuse”

Increase the total quantity of disposal of refuse from 315 tons to 693.5 tons. The extra 378.5 tons of disposal of excavated refuse was due the additional 1,004 feet of trenching required in Bid Item 3. This revision will result in a cost increase of \$28,009.00 based on the agreed upon contract cost of \$74 for each ton.

Estimated Cost: Decrease \$ _____ or Increase **\$ 71,002.84**

~~Submitted by: _____ Date: _____~~

~~Approved by: _____ Date: _____~~

~~General Manager-Chief Engineer
Waste Management Department~~

~~_____ Date: _____~~

~~Chairman, Board of Supervisors~~

~~We, the undersigned Contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may be otherwise noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above.~~

~~Accepted: _____ Date: _____ Contractor: _____~~

~~By: _____ Title: _____~~

~~If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to the proceeding with the ordered work and filing a written protest within the time therein specified.~~

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

Project: Construction of a Landfill Gas Collection System at the Edom Hill Sanitary Landfill Sheet 3 of 3

CONTRACT CHANGE ORDER NO. 1

To: Argen Environmental Inc., Contractor, you are hereby directed to make the herein described changes from the plans and specifications or to do the following described work not included in the plans and specifications.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE GENERAL MANAGER-CHIEF ENGINEER OF THE WASTE MANAGEMENT DEPARTMENT OR THE BOARD OF SUPERVISORS OF RIVERSIDE COUNTY.

Description of work to be done, estimate of quantities, and prices to be paid. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. Change requested by Riverside County:

Extra Work Item No. 1

Excavate deeper than the contract states to excavate and extend existing buried gas wells. Eighteen existing vertical gas wells were cut and capped below grade before closure construction started to protect them during closure construction. The contract stated that the wells would be two to three feet deep below grade and that they would need to be excavated and extended. During closure construction, the final as-built grades varied from the design grades and the movement and vibration of the heavy equipment used during closure construction resulted in the telescopic wells sinking to four to eight feet below grade. This extra work is for time and materials at an agreed upon per hour fee of \$336.15 based on labor and equipment charges based on the published "State of California's DOT Labor Surcharge and Equipment Rental Rates". This work will result of an increase of \$15,462.90 for 46 hours work.

Extra Work Item No. 2

Based on field conditions, the design and location of the landfill gas header bridge entering the flare station was changed to allow for proper gas condensate drainage. This extra work is for time and materials at an agreed upon per hour fee of \$222.54 based on the published "State of California's DOT Labor Surcharge and Equipment Rental Rates" for labor and forklift equipment. The work will result in an increase of \$3,560.64.

By reason of this order the time of completion will be adjusted as follows: 15 extra working days

Estimated Cost: Decrease \$ _____ or Increase \$ 71,002.84

Submitted by: [Signature] Date: 10.9.08

Approved by: [Signature] Date: 10/9/08
General Manager-Chief Engineer
Waste Management Department

Chairman, Board of Supervisors Date: _____

We, the undersigned Contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may be otherwise noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above.

Accepted: Date: 10/10/08 Contractor: ARGEN ENVIRONMENTAL
By: [Signature] Title: PRESIDENT

If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to the proceeding with the ordered work and filing a written protest within the time therein specified.

FORM APPROVED COUNTY COUNSEL
BY: [Signature] DATE: 10/9/08
JOE S. RANK