

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

140



FROM: Purchasing and Fleet Services Department
Waste Management Department

SUBMITTAL DATE:
December 12, 2005

SUBJECT: Waste Management Department Radio System

RECOMMENDED MOTION: The Board:

1. Approve the purchase of a comprehensive radio system for the Waste Management Department, from the most responsive bidder, Connect Wireless Solutions, in the amount of \$347,626.05.
2. Approve the addition of two "emergency stop" supervisory and test stations and two repeaters as capital assets under Equipment – Communications (40200-4500100000-99904-546060).

BACKGROUND: On January 26, 2005, the Purchasing and Fleet Services Department under the direction of the County of Riverside, Waste Management Department, and the Riverside County Information Technology Department advertised a Request for Quotation (RFQ) #WMARC00003 to procure a radio system for equipment and personnel at Department landfills. The solicitation closed on March 16, 2005 and five responses were received. (Cont'd)

Approved
W DEPT
 Department of Concurrence

[Signature]
 Robert Howdyshell, Director
 Purchasing and Fleet Services Department

[Signature]
 Hans W. Kernkamp, General Manager-Chief Engineer
 Waste Management Department

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 347,626.05	In Current Year Budget:	YES
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	NO
	Annual Net County Cost:	\$ 0	For Fiscal Year:	05/06

SOURCE OF FUNDS: Waste Management Enterprise Fund	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION: **APPROVE**

[Signature]

County Executive Office Signature

- Policy
- Consent
- Policy
- Consent

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

Prev. Agn. Ref.: NONE | **District:** All | **Agenda Number:**

3.28

FORM 11 Review – Riverside County Information Technology

SUBJECT: Waste Management – Radio System

Review Date: December 13, 2005



- Conforms/meets County technology standards**
- Outside County technology standards**
- Outside County technology standards - compatible with standards**
- Standards do not exist for this County Technology**

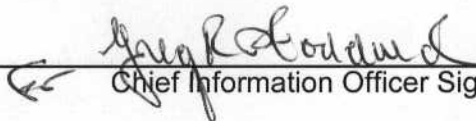
Comments:

Riverside County Information Technology (RCIT) worked with Waste Management on identifying and selecting a solution for their radio technology requirements at land sites. Use of the existing 800MHz radio system was considered as an option, but further analysis determined that this option provided far more functionality than was required by Waste Management and therefore proved to be more operationally expensive than Waste Management felt necessary. RCIT concurred with this decision.

RCIT is in agreement with the selection made for vendor award. RCIT will not serve in a project management capacity and the project will be coordinated and overseen by the Waste Management Department. Annual support of this radio system will be provided by the awarded vendor, Connect Wireless Solutions.

CIO RECOMMENDATION:

This service is outside of County technology standards but is compatible with the County's network architecture. We concur and support this contract agreement.


Chief Information Officer Signature

Initial bids ranged in price from \$259,825.64 to \$841,029.00, as shown in the table below.

Vendor Name	Proposed Cost
Connect Wireless Solutions	\$259,825.64
Hi-Desert Communications	\$268,162.21
RivCom LLC	\$330,188.34
Dailey-Wells Communications	\$504,987.48
Automated Switching and Control Inc.	\$841,029.00

Each proposal was reviewed by the Riverside County Information Technology Department, as well as the Riverside County Waste Management Department. The two vendors with the lowest bids were asked to demonstrate their proposed product at the Lamb Canyon Sanitary Landfill. Connect Wireless Solutions demonstrated their products on August 24, 2005. Connect Wireless Solutions' products met the RFP specifications. Hi-Desert Communications arrived on August 25, 2005 but failed to supply any products to test at the site.

During final negotiations, the scope and pricing aspects of the RFP were clarified with the vendor. The price difference between Connect Wireless Solutions' initial bid and the final bid is \$87,800.41. This difference includes items that were initially bid as options by Connect Wireless Solutions, an increase in quantities to provide better radio and alarm coverage at each site, and the inclusion of additional safety and administrative features to enhance the system. Two supervisory and test stations will be required to monitor a unique "emergency stop" system at the two major landfill facilities as well as two repeater towers. Each station and repeater is estimated not to exceed \$13,700. These stations and repeaters were not initially budgeted in the capital asset budget because the earlier quotes were less than the minimum \$5,000. The Department has attached a listing of the component parts of the new radio system (Attachment A).

Pricing of this project is considered to be fair and reasonable based upon adequate competition from known suppliers. The initial bid pricing is indicative of Connect Wireless being the low price bid. With the addition of options and an increase of equipment quantities which were determined to be needed for a complete system at all locations, the price did increase. However, had these same options and quantity changes been made to the other bids to create equality in the content of the bids, it is apparent that the bid amounts would have increased accordingly and Connect Wireless would still retain the low bid price. County Purchasing personnel agree with the assessment and have been involved with the bid process at all times, including during negotiations. Based on this evaluation, the pricing is deemed to be fair and reasonable.

It is both Departments' request that the Board approve the award to Connect Wireless Solutions for a comprehensive radio system.

Description	Badlands			Lamb Canyon			Blythe			Mecca II			T-Pass			Spares			Totals		
	Final Qty	Final Ext. Price	Final Price	Final Qty	Final Ext. Price	Final Price	Final Qty	Final Ext. Price	Final Price	Final Qty	Final Ext. Price	Final Price	Final Qty	Final Ext. Price	Final Price	Final Qty	Final Ext. Price	Final Price	Final Ext. Price		
Transmitters (on equipment)	24	\$ 7,920.00		34	\$ 11,220.00		7	\$ 2,310.00		6	\$ 1,980.00		0	\$ -		0	\$ -		71	\$330.00	\$23,430.00
Transmitters (on personnel)	0	\$ -		0	\$ -		0	\$ -		0	\$ -		30	\$ 9,900.00		6	\$ 1,980.00		36	\$330.00	\$11,880.00
CDM1550LS+ Mobile Radio w/headset for landfill	21	\$ 21,147.00		27	\$ 27,189.00		5	\$ 5,035.00		5	\$ 5,035.00		0	\$ -		6	\$ 6,042.00		64	\$1,007.00	\$64,448.00
Equipment operators	21	\$ 2,520.00		27	\$ 3,240.00		5	\$ 600.00		5	\$ 600.00		0	\$ -		6	\$ 720.00		64	\$120.00	\$7,680.00
Remote Mount Kit	21	\$ 0		27	\$ 0		5	\$ 0		5	\$ 0		0	\$ -		6	\$ 0		64	Inc	\$0
Power Cable	21	\$ 0		27	\$ 0		5	\$ 0		5	\$ 0		0	\$ -		6	\$ 0		64	Inc	\$0
1/4 Wave Antenna	21	\$ 525.00		27	\$ 675.00		5	\$ 125.00		5	\$ 125.00		0	\$ -		6	\$ 150.00		64	\$25.00	\$1,600.00
Mirror Mount	21	\$ 290.01		27	\$ 372.87		5	\$ 69.05		5	\$ 69.05		0	\$ -		6	\$ 82.86		64	\$13.81	\$883.84
Power Converter	21	\$ 2,625.00		27	\$ 3,375.00		5	\$ 625.00		5	\$ 625.00		0	\$ -		6	\$ 750.00		64	\$125.00	\$8,000.00
Foot Switch	21	\$ 1,296.75		27	\$ 1,667.25		5	\$ 308.75		5	\$ 308.75		0	\$ -		6	\$ 370.50		64	\$61.75	\$3,952.00
PA System	21	\$ 17,220.00		27	\$ 22,140.00		5	\$ 4,100.00		5	\$ 4,100.00		0	\$ -		6	\$ 4,920.00		64	\$820.00	\$52,480.00
T-Pass II Receiver	24	\$ 12,072.00		34	\$ 17,102.00		7	\$ 3,521.00		6	\$ 3,018.00		0	\$ -		1	\$ 503.00		72	\$503.00	\$36,216.00
CDM1550LS+ Mobile Radio w/ hand mic for on-road equipment operators	3	\$ 1,473.00		7	\$ 3,437.00		2	\$ 982.00		1	\$ 491.00		0	\$ -		1	\$ 491.00		14	\$491.00	\$6,874.00
1/4 Wave Antenna	3	\$ 75.00		7	\$ 175.00		2	\$ 50.00		1	\$ 25.00		0	\$ -		1	\$ 25.00		14	\$25.00	\$350.00
PA System	3	\$ 1,542.00		7	\$ 3,598.00		2	\$ 1,028.00		1	\$ 514.00		0	\$ -		1	\$ 514.00		14	\$514.00	\$7,196.00
Ltd Display HT1250 Portable	10	\$ 4,890.00		10	\$ 4,890.00		7	\$ 3,423.00		0	\$ -		0	\$ -		11	\$ 5,379.00		38	\$489.00	\$18,582.00
Remote Speaker Microphone	10	\$ 500.00		10	\$ 500.00		7	\$ 350.00		0	\$ -		0	\$ -		11	\$ 550.00		38	\$50.00	\$1,900.00
Carry Case	10	\$ 390.00		10	\$ 390.00		7	\$ 273.00		0	\$ -		0	\$ -		11	\$ 429.00		38	\$39.00	\$1,482.00
Full display HT1550XLS Portable	4	\$ 2,176.00		4	\$ 2,176.00		2	\$ 1,088.00		0	\$ -		0	\$ -		15	\$ 8,160.00		25	\$544.00	\$13,600.00
Remote Speaker Microphone	4	\$ 200.00		4	\$ 200.00		2	\$ 100.00		0	\$ -		0	\$ -		15	\$ 750.00		25	\$50.00	\$1,250.00
Carry Case	4	\$ 156.00		4	\$ 156.00		2	\$ 78.00		0	\$ -		0	\$ -		15	\$ 585.00		25	\$39.00	\$975.00
CDM1550LS+ Mobile for fee booth	1	\$ 884.00		1	\$ 884.00		1	\$ 884.00		1	\$ 884.00		0	\$ -		0	\$ -		4	\$884.00	\$3,536.00
GR1225 Repeater	1	\$ 3,551.00		1	\$ 3,551.00		0	\$ -		0	\$ -		0	\$ -		0	\$ -		2	\$3,551.00	\$7,102.00
Weather Proof Cabinet	0	\$ -		1	\$ 1,580.00		0	\$ -		0	\$ -		0	\$ -		0	\$ -		1	\$1,580.00	\$1,580.00
Base Unit "Stop Work" Identifier	1	\$ 6,325.00		1	\$ 6,325.00		0	\$ -		0	\$ -		0	\$ -		0	\$ -		2	\$6,325.00	\$12,650.00
antenna for base unit "stop work" identifier	1	\$ 365.00		1	\$ 365.00		0	\$ -		0	\$ -		0	\$ -		0	\$ -		2	\$365.00	\$730.00
Hardwire "Stop work" alarm transmitter on equipment	24	\$ 960.00		34	\$ 1,360.00		7	\$ 280.00		6	\$ 240.00		0	\$ -		0	\$ -		71	\$40.00	\$2,840.00
Installation of repeater w/ antenna system	1	\$ -		1	\$ -		0	\$ -		0	\$ -		0	\$ -		0	\$ -		2	\$ -	\$0
Installation of control station w/ antenna system	1	\$ -		1	\$ -		1	\$ -		1	\$ -		0	\$ -		0	\$ -		4	\$ -	\$0
Installation of mobile radio w/ headset & PA	21	\$ 11,390.00		27	\$ 15,300.00		5	\$ 4,185.00		5	\$ 3,185.00		0	\$ -		0	\$ -		58	\$ -	\$34,060.00
Installation of "stop work" alarm receiver	24	\$ -		34	\$ -		7	\$ -		6	\$ -		0	\$ -		0	\$ -		71	\$ -	\$0
Installation of mobile radio w/ hand mic & PA	3	\$ -		7	\$ -		2	\$ -		1	\$ -		0	\$ -		0	\$ -		13	\$ -	\$0

Equipment Total	\$ 88,142.76	\$115,208.12	\$ 24,949.80	\$ 17,774.80	\$ 9,900.00	\$ 32,401.36	\$288,376.84
Freight	\$ 6,831.06	\$8,928.63	\$ 1,933.61	\$ 1,377.55	\$767.25	\$2,511.11	\$22,349.21
Sales Tax (7.75%)	\$ 12,350.00	\$ 16,660.00	\$ 4,465.00	\$ 3,425.00	\$ -	\$ -	\$36,900.00
Program / Install	\$ 107,323.82	\$140,796.75	\$31,348.41	\$22,577.35	\$10,667.25	\$34,912.47	\$347,626.05

Capitalized Cost of Radio System	\$25,671.81
Non-Fixed Asset Equipment Cost	\$321,954.24