

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



**FROM:** Waste Management Department

**SUBMITTAL DATE:**  
August 21, 2014

**SUBJECT:** Bid Item #36 Quantity Correction for the Construction of a Liner System within the Canyon 4, Phase 3 area at the Badlands Sanitary Landfill District 5/5 [\$243,062.25 - Waste Management Department Enterprise Funds]

**RECOMMENDED MOTION:** That the Board of Supervisors approve the Bid Item #36 Quantity Correction for the Construction of a Liner System within the Canyon 4, Phase 3 area at the Badlands Sanitary Landfill.

**Summary**

On March 12, 2013, the Board approved the contract documents for the Construction of a Liner System within the Canyon 4, Phase 3 area at the Badlands Sanitary Landfill and authorized the Department to advertise for bids. On May 21, 2013, the Board awarded Independent Construction Company, (Contractor) a contract in the amount of \$7,378,441.85 for the Construction of a Liner System within the Canyon 4, Phase 3 area at the Badlands Sanitary Landfill. The construction project began in July 2013 and is estimated to be completed in October of this year. (continued)

Hans Kernkamp  
General Manager-Chief Engineer

| FINANCIAL DATA  | Current Fiscal Year: | Next Fiscal Year: | Total Cost:   | Ongoing Cost: | POLICY/CONSENT<br>(Per Exec. Office)  |
|-----------------|----------------------|-------------------|---------------|---------------|---|
| COST            | \$ 243,062.25        | \$ 0              | \$ 243,062.25 | \$ N/A        | Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/> |
| NET COUNTY COST | \$ 0                 | \$ 0              | \$ 0          | \$ N/A        |   |

**SOURCE OF FUNDS:** Waste Management Department Enterprise Funds  
**Budget Adjustment:** No  
**For Fiscal Year:** 14/15

**C.E.O. RECOMMENDATION:** APPROVE  
 BY:   
 Alex Gann  
 County Executive Office Signature

**MINUTES OF THE BOARD OF SUPERVISORS**

FORM APPROVED COUNTY COUNSEL 3/21/14  
 BY: GREGORY P. PRIAMOS DATE

Departmental Concurrence

- A-30
- 4/5 Vote
- Positions Added
- Change Order

Prev. Agn. Ref.: 5/21/13 (12-1C) | District: 5/5 | Agenda Number:

COUNTY  
**12-3**

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**  
**FORM 11: Ad Bid Item Quantity Correction and Extra Work for the Construction of a Liner System within the Canyon 4, Phase 3 area at the Badlands Sanitary Landfill District 5/5 [\$243,062.25 - Waste Management Department Enterprise Funds]**  
**DATE:** August 21, 2014  
**PAGE:** Page 2 of 2

**BACKGROUND:**

**Summary (cont'd)**

An error in quantity was discovered for Bid Item #36 - 60-mil double sided texture High Density Polyethylene (HDPE) liner. The liner system design called for **two** layers of 60 mil double-sided texture HDPE liner over a 7.4 acre portion of the side slope liner system. The error in quantity occurred when only one layer was accounted for. The additional quantity for the second layer is approximately 324,083 square feet (sf). As shown in the attached Exhibit A, an increase of \$243,062.25 will be added to the original approved contract amount of \$7,378,441.85 for a total of \$7,621,504.10. This increase in cost is not considered extra work since the original plans and specifications included the two layers of 60 mil double-sided texture liner to be installed over the aforementioned 7.4 acre side slope portion. This quantity adjustment is in response to a clerical error and not considered extra work outside of the plans and specifications.

**Impact on Citizens and Businesses**

If this landfill expansion project is not completed, the disposal services for the public that is served by the Badlands Landfill could be interrupted or halted. It should be noted that this expansion project provides landfill airspace for an additional 10 million tons of refuse which is projected to extend the remaining site life by approximately 7-12 years.

**SUPPLEMENTAL:**

**Additional Fiscal Information**

Budget for this cost increase will be provided from Fund 40200, Department ID – 4500100000.

Attachment: Exhibit A

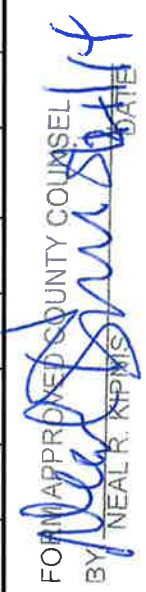
## EXHIBIT A

(To Agreement for the Riverside County Waste Management Department Project, Canyon 4 Phase 3 Liner Expansion Project at the Badlands Sanitary Landfill, located in Moreno Valley, Riverside County, California.)

It is understood that the quantities listed (except for those shown as “Lump Sum, [L.S.]”) are but estimates only and final payment will be based on actual quantities, whatever they may be, subject to such adjustments and alterations as elsewhere provided for in the Contract Documents.

| <b>Item No.</b> | <b>Item of Work</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Unit Cost</b> | <b>Sub-Total Cost</b> |
|-----------------|---|-------------|-----------------|------------------|-----------------------|
| 1               | Construction Schedule Submittal                                     | L.S.        | 1               | \$20,000.00      | \$20,000.00           |
| 2               | Prepare and Implement NPDES SWPPP                                   | L.S.        | 1               | \$29,000.00      | \$29,000.00           |
| 3               | Mobilization and Demobilization                                     | L.S.        | 1               | \$414,500.00     | \$414,500.00          |
| 4               | Develop Water   | L.S.        | 1               | \$343,600.00     | \$343,600.00          |
| 5               | Demolition  | L.S.        | 1               | \$33,373.20      | \$33,373.20           |
| 6               | Crush and Pulverize Material  | L.S.        | 1               | \$27,320.20      | \$27,320.20           |
| 7               | Construct Concrete Drainage Structures                              | L.S.        | 1               | \$370,401.15     | \$370,401.15          |
| 8               | Construct Western Stockpile Concrete Drainage Structures            | L.S.        | 1               | \$117,000.14     | \$117,000.14          |
| 9               | Construct Secondary Containment Concrete Structure                  | L.S.        | 1               | \$130,725.00     | \$130,725.00          |
| 10              | Furnish and Install 12” thick grouted riprap lined V-ditch channels | S.F.        | 13,272          | \$9.41           | \$124,889.52          |
| 11              | Furnish and Install 12” thick grouted riprap lined aprons           | S.F.        | 1,216           | \$9.30           | \$11,308.80           |
| 12              | Furnish and Install 42” diameter RCP Culvert                        | L.F.        | 470             | \$169.79         | \$79,801.30           |
| 13              | Furnish and Install 30” diameter CMP Culverts                       | L.F.        | 235             | \$111.72         | \$26,254.20           |
| 14              | Furnish and Install 36” diameter CMP Culverts                       | L.F.        | 853             | \$130.13         | \$111,000.89          |
| 15              | Furnish and Install 42” diameter CMP Culverts                       | L.F.        | 584             | \$157.36         | \$91,898.24           |
| 16              | Furnish and Install 30” diameter HDPE Culverts, including couplings | EA          | 1               | \$4,035.00       | \$4,035.00            |
| 17              | Furnish and Install 36” diameter HDPE Culverts, including couplings | EA          | 2               | \$5,197.50       | \$10,395.00           |

|    |   |      |                    |             |                             |
|----|---|------|--------------------|-------------|-----------------------------|
| 18 | Furnish and Install 42" diameter HDPE Culverts, including couplings   | EA   | 1                  | \$5,775.00  | \$5,775.00                  |
| 19 | Construct benches A, B, C, and S Scrim Temporary Drainage Protection along toe of bench   | S.F. | 24,808             | \$0.38      | \$9,427.07                  |
| 20 | Furnish and Install Drainage Inlets   | EA   | 2                  | \$22,496.25 | \$44,992.50                 |
| 21 | Furnish and Install Stormwater Sampling Catch Basin   | EA   | 1                  | \$3,360.00  | \$3,360.00                  |
| 22 | Furnish and Install Steel Plate Baffles, including anchor bolts   | EA   | 14                 | \$157.50    | \$2,205.00                  |
| 23 | Construct Masonry Splash Walls, including reinforced concrete footing   | L.F. | 223                | \$71.40     | \$15,922.20                 |
| 24 | Earthwork (Engineered Fill C4P3 Liner Expansion)  | C.Y. | 387,953            | \$1.65      | \$640,122.45                |
| 25 | Earthwork (Engineered Fill within the Western Stockpile) Range: 267,727 – 541,435 (compacted) <sup>1,2,3</sup>                                      | C.Y. | 518,000            | \$2.27      | \$1,175,860.00              |
| 26 | Earthwork (Engineered Fill using material hauled to Western Stockpile from Canyon 6 Stockpile) Range: 71,505 – 345,213 (compacted) <sup>1,2,4</sup> | C.Y. | 94,940             | \$2.12      | \$201,272.80                |
| 27 | Earthwork (Off-site dirt haul) Range: 0-297,509 (bank) <sup>1,5</sup>   | C.Y. | 0                  | 0           | 0                           |
| 28 | Earthwork (C4P3 Over-excavation and Placement of Engineered Fill)   | C.Y. | 15,672             | \$1.91      | \$29,933.52                 |
| 29 | Earthwork (Western Stockpile Over-excavation and Placement of Engineered Fill)  | C.Y. | 93,500             | \$1.63      | \$152,405.00                |
| 30 | Earthwork (Refuse Excavation & Disposal)  | C.Y. | 55,465             | \$2.68      | \$148,646.20                |
| 31 | Earthwork (Earthen Berms)   | L.F. | 406                | \$10.47     | \$4,250.82                  |
| 32 | Construct Low-Permeability Layer (LPL)  | C.Y. | 6,195              | \$13.40     | \$83,013.00                 |
| 33 | Finish Subgrade Surface Preparation (FSSP)  | S.F. | 541,671            | \$0.31      | \$167,918.01                |
| 34 | Furnish and Install GCL   | S.F. | 557,230            | \$0.73      | \$406,777.90                |
| 35 | Furnish and Install 60-mil HDPE Liner (single-sided textured)   | S.F. | 235,768            | \$0.68      | \$160,322.24                |
| 36 | Furnish and Install 60-mil HDPE Liner (double-sided textured)   | S.F. | 405,978<br>730,061 | \$0.75      | \$304,483.50<br>\$47,545.75 |
| 37 | Furnish and Install 16 oz/sy Geotextile   | S.F. | 557,230            | \$0.37      | \$206,175.10                |
| 38 | Furnish and Install 12 oz/sy Geotextile   | S.F. | 84,516             | \$0.33      | \$27,890.28                 |
| 39 | Furnish and Install 8 oz/sy Geotextile  | S.F. | 84,516             | \$0.26      | \$21,974.16                 |

FOR APPROVED COUNTY COUNSEL  
 BY  DATE

|    |  |      |         |              |              |
|----|--|------|---------|--------------|--------------|
| 40 | Furnish and Install LCRS drainage layer (1/2-1" Gravel) for LCRS Trench  | C.Y. | 2,496   | \$43.65      | \$108,950.40 |
| 41 | Furnish and Install 8" slotted HDPE pipe including pipe fittings and connections                               | L.F. | 840     | \$34.77      | \$29,206.80  |
| 42 | Furnish and Install 4" solid HDPE pipe, including trench excavation, pipe fittings, and connections            | L.F. | 424     | \$18.75      | \$7,950.00   |
| 43 | Furnish and Install pump system including tubing, fittings, and support connections                            | L.S. | 1       | \$112,264.16 | \$112,264.16 |
| 44 | Relocate existing tanks, accessories, valves, vaults, guard posts, removal of existing 4" solid HDPE LCRS pipe | L.S. | 1       | \$31,978.69  | \$31,978.69  |
| 45 | Construct PCS Layer (3"-minus)   | C.Y. | 6,520   | \$8.90       | \$58,028.00  |
| 46 | Construct PCS Layer (1"-minus)   | S.F. | 21,864  | \$8.82       | \$192,840.48 |
| 47 | Furnish and Install 8-mil Temporary Protective Membrane  | S.F. | 346,048 | \$0.43       | \$148,800.64 |
| 48 | Asphalt Access Road  | S.F. | 83,920  | \$3.37       | \$282,810.40 |
| 49 | Construct Asphalt Concrete Speed Bumps   | EA   | 4       | \$2,021.25   | \$8,085.00   |
| 50 | Class II Base  | S.F. | 99,855  | \$1.36       | \$135,802.80 |
| 51 | Class III Access Roads   | S.F. | 34,164  | \$0.92       | \$31,430.88  |
| 52 | K-Rails  | E.A. | 80      | \$819.60     | \$65,568.00  |
| 53 | Roadway Markings   | L.S. | 1       | \$9,233.18   | \$9,233.18   |
| 54 | Soil Cement – Bench P and Sedimentation Basin Roads  | S.F. | 135,102 | \$1.30       | \$175,632.60 |
| 55 | Soil Cement – Western Stockpile Road   | S.F. | 11,759  | \$1.38       | \$16,227.42  |
| 56 | Realign and Furnish and Install Additional 8" HDPE Header Pipe   | L.S. | 1       | \$50,858.15  | \$50,858.15  |
| 57 | Furnish and Install 8" HDPE LFG Collection Pipe  | L.F. | 302     | \$15.23      | \$4,599.46   |
| 58 | Furnish and Install 8" Slotted HDPE LFG Collection Pipe  | L.F. | 50      | \$19.28      | \$964.00     |
| 59 | Furnish and Install 8" Header Bridge Support   | L.S. | 1       | \$22,261.43  | \$22,261.43  |
| 60 | Earthwork (Daily Cover)  | C.Y. | 96,000  | \$1.32       | \$126,720.00 |

**Total Cost \$ 7,378,441.85**