

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



**FROM:** Waste Management Department

**SUBMITTAL DATE:**  
March 26, 2014

**SUBJECT:** Completion of Flood Damage Repair Work within Phase 2, Stage 4 Liner System Construction Project at the Lamb Canyon Landfill - District 5 [\$495,960.79 – Waste Management Department Enterprise Funds]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Approve Contract Change Order No. 1 (CCO No.1) in the amount of \$448,000.92, to the Contract with Sukut Construction, Inc. (Contractor) for flood damage repair work performed during the Construction of Liner System within Phase 2, Stage 4 Expansion area at the Lamb Canyon Sanitary Landfill, and authorize the Chairman of the Board to execute it on behalf of the County; and
2. Approve Addendum No. 5 to the Consultant Agreement with Geosyntec Consultants (Consultant) in the amount of \$47,959.87 for additional Construction Quality Assurance/Quality Control (QA/QC) Services provided during the flood damage repair work, and authorize the General Manager-Chief Engineer to execute it on behalf of the County. (continued)

  
Hans Kernkamp  
General Manager-Chief Engineer

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ 495,960.79	\$ 0	\$ 495,960.79	\$ N/A	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0.00	\$ 0	\$ 0.00	\$ N/A	

**SOURCE OF FUNDS:**

Waste Management Department Enterprise Funds

Budget Adjustment: No

For Fiscal Year: 13/14

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

APPROVE

BY:

Alex Gann

County Executive Office Signature

**MINUTES OF THE BOARD OF SUPERVISORS**

☐ Positions Added  
☒ Change Order

☐ A-30  
☐ 4/5 Vote

Prev. Agn. Ref.: 9/24/13 (12-1C)

District: 5/5

Agenda Number:

12-1 C

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

**FORM 11:** Completion of Flood Damage Repair Work within Phase 2, Stage 4 Liner System Construction Project at the Lamb Canyon Landfill - District 5 - [\$495,960.79 – Waste Management Department Enterprise Funds]

**DATE:** March 26, 2014

**PAGE:** Page 2 of 3

**BACKGROUND:**

**Summary**

On July 13, 2010, the Board of Supervisors approved and executed a Consultant Agreement between the Department and Consultant to provide Geotechnical Design and QA/QC services during the design and construction phases of two composite liner systems at Badlands and Lamb Canyon Sanitary Landfills. The total Consultant Agreement to date is \$815,677.50.

On March 12, 2013, the Board awarded the Contractor a contract to construct the composite liner system within a 23-acre area (referred to as Phase 2, Stage 4 Expansion) at the Lamb Canyon Sanitary Landfill. The total contract amount is \$10,504,231.50.

On August 30, 2013, the expansion project area was significantly damaged by a 45-minute deluge of an intense rainstorm. In order to avoid potential delay claims by the contractor, and to bring the project back on schedule, thus avoiding interruption in disposal services to the public, the Department directed the contractor to proceed with the repair work which took approximately three weeks to complete.

On September 24, 2013, the Board authorized payment of an amount not to exceed \$500,000 for implementing the storm damage repair work including the related QA/QC observation and testing. All necessary repair work has been satisfactorily completed and was approved by the involved regulatory agencies. The final cost for performing this repair work by the Contractor amounted to \$448,000.92; whereas the final cost for providing the necessary QA/QC services by the Consultant amounted to \$47,959.87. These amounts bring the final total cost for completing this repair work to \$495,960.79.

**Impact on Citizens and Businesses**

If this landfill expansion project was not completed on schedule, the disposal services for the public that is served by the Lamb Canyon Landfill could have been interrupted or halted. It should be noted this expansion project provides landfill airspace for an additional 10.5 million tons of refuse which is projected to extend the remaining site life by approximately 15-20 years.

**SUPPLEMENTAL:** (Attachment A - Change Order Report)

**Additional Fiscal Information**

The daily cost of the repair work was tracked and agreed upon at the end of each work day by the field representatives of the Department and the Contractor. This daily cost included all labor, equipment, and material, and this information was documented in "Time and Material Report" spreadsheets and made part of the attached Contract Change Order No.1 (Attachment B). All equipment rates were in accordance with those published by Caltrans "Labor Surcharge and Equipment Rental Rates" dated April 1, 2012 through March 31, 2013. All labor rates were obtained from the California Prevailing Wage determination by the Director of Industrial Relations (issued on August 22, 2013) for a number of localities including Riverside County.

The Consultant's rates for the additional QA/QC services provided during this repair work were based on the adjusted rates approved in Addendum No. 3. A summary of all the Consultant's costs including labor, equipment, and materials associated with providing additional QA/QC services during the repair work are included in the attached Addendum No. 5 (Attachment C).

Budget for this additional work will be provided from Fund 40200, Department ID – 4500100000.

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**PAGE:** Page 3 of 3

**Contract History and Price Reasonableness**

The final cost for this repair work was determined based on a combination of contract unit prices and "force account" basis as described in Section 7 of the General Provisions in the Contract Documents. This combination ensured that the total final cost is fair and reasonable.

**ATTACHMENTS:**

ATTACHMENT A.	Change Order Report
ATTACHMENT B.	Contract Change Order No. 1
ATTACHMENT C.	Addendum No. 5 to Consultant Agreement

**Attachment A**  
**Change Order Report**

**Attachment A**

**Change Order Report**  
**Lamb Canyon Sanitary Landfill - Phase 2, Stage 4 Liner System Construction Project**

**1. Construction Contract with Sukut Construction, Inc. (Contractor):**

<b>NUMBER</b>	<b>AMOUNT</b>	<b>PERCENT</b>	<b>DESCRIPTION</b>
Original Contract Amount	\$10,504,231.5		
CCO no. 1	\$448,000.92	CO Cost/Original = 4.26%	Cause: Storm damage repair work Initiated by: County due to damages by act of God
New total contract cost	\$10,952,232.42	Total COs/original = 4.26%	

**2. Construction Quality Assurance/Quality Control (QA/QC) Services - Consultant Agreement with Geosyntec Consultants (Consultant):**

<b>NUMBER</b>	<b>AMOUNT</b>	<b>PERCENT</b>	<b>DESCRIPTION</b>
Original Contract Amount	\$562,753		
Previously Approved Addendum no. 1	\$14,876.35	Add. #1 Cost/Original = 2.64%	Cause: Investigate tension crack at Badlands Landfill Initiated by: Regulatory requirements
Previously Approved Addendum no. 2	\$33,683.15	Add. #2 Cost/Original = 5.99%	Cause: Additional slope stability evaluations for Badlands & Lamb Canyon landfills Initiated by: Regulatory requirements
Previously Approved Addendum no. 3	\$79,157.00	Add. #3 Cost/Original = 14.1%	Cause: Overtime paid reimbursed by Contractor (\$50,000), and Rate Adjustment from 2010 to 2013 (\$29,157.00) Initiated by: Contractor and Consultant
Previously Approved Addendum no. 4	\$125,208.00	Add. #4 Cost/Original = 22.25%	Cause: Contractor's delay in the Badlands liner expansion project Initiated by: County
Addendum no. 5	\$47,959.87	Add. #5 Cost/Original = 8.52%	Cause: Additional CQA Services during storm damage repair work Initiated by: County due to damages by act of God
New total contract cost	\$863,637.37	Total Adds/original = 53.0%	

**Attachment B**  
**Contract Change Order No. 1**

**RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT**

Project: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 1 of 2

**CONTRACT CHANGE ORDER NO. 1**

To: Sukut Construction, 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 AND 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:**

On Friday, August 30, 2013, the project work area was subjected to a heavy rainstorm that caused damage to some of the completed work items. Immediately following this rainstorm event, an assessment of the damage caused by the heavy rain was conducted by the Riverside County Waste Management Department (Department), Sukut Construction Inc. (Contractor), and Geosyntec Consultants (Consultant). An itemized list of the observed damage and the corresponding repair workplan was developed by all involved parties (Attachment 1). The Department requested the Contractor to implement this repair workplan under observation from the Department and Consultant, and in accordance with the requirements of the pertinent sections in the Contract Documents.

The Department and Contractor have mutually agreed that the measurement and compensation to Contractor for performing the repair work would be determined based on the "Force Account" method as described in the Contract Documents, General Provisions Section 2.7 (Extra Work), Section 2.8 (Payment for Extra Work), and Section 7.3 (Force Account Payment).

The daily cost of this repair work was tracked and agreed upon at the end of each work day by the field representatives of the Department and the Contractor. This daily cost included all labor, equipment, and material, and this information was documented in "Time and Material Report" spreadsheets (Attachment 2). Based on this arrangement, the total final cost for performing all necessary repair work amounted to \$448,000.92 (Attachment 2).

Cost: Decrease - \$ \_\_\_\_\_ or Increase \$ 448,000.92

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: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 2 of 2

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During implementation of the repair workplan by the Contractor, the Department temporarily ceased counting contract working days, which was resumed after the substantial completion of all repair work activities. Therefore, no additional working days have been added to the contract.

Attachments:

1. Repair Workplan
2. Summary of the Daily Time & Material Cost

PD#147006/v2

FORM APPROVED COUNTY COUNSEL

BY: NEAL R. KIPNIS 3/26/14  
DATE

Cost: Decrease - \$ \_\_\_\_\_ or Increase \$ 448,000.92

Submitted by: [Signature]

Date: 3/20/14

Approved by: [Signature]

Date: 3/26/14

General Manager-Chief Engineer  
Waste Management Department

Chairman, Board of Supervisors

Date: \_\_\_\_\_

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Accepted: \_\_\_\_\_ Date: 3-25-14

Contractor: Sukut Construction

By: [Signature]

Title: Project Manager

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**RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT**

Project: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 1 of 2

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Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

Project: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 2 of 2

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FORM APPROVED COUNTY COUNSEL  
BY: NEAL R. KIPNIS DATE 3/26/14

PD#147006/v2

Cost: Decrease - \$ \_\_\_\_\_ or Increase \$ 448,000.92

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Date: 3/20/14

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Date: 3/26/14

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Waste Management Department

Chairman, Board of Supervisors

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By: [Signature]

Title: Project Manager

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**RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT**

Project: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 1 of 2

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Title: \_\_\_\_\_

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**RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT**

Project: Lamb Canyon Landfill - Liner System Construction Phase 2, Stage 4 Sheet 2 of 2

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Accepted: \_\_\_\_\_ Date: 3-25-14

Contractor: Sukut Construction

By: \_\_\_\_\_

Title: Project Manager

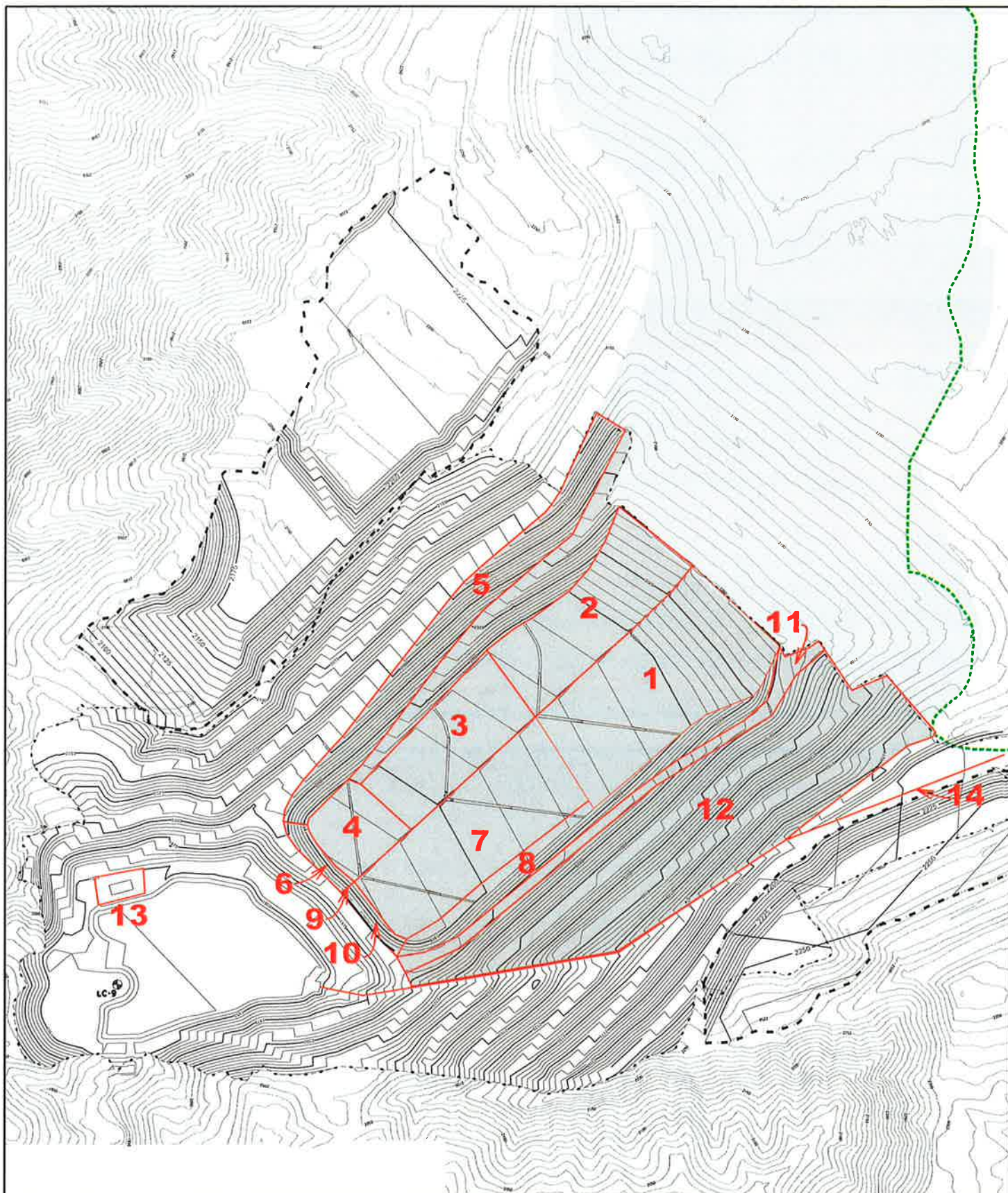
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**Attachment 1**  
**Repair Workplan**

Riverside County Waste Management  
Liner System Construction Phase 2, Stage 4 at Lamb Canyon  
8/30/2013 Storm Damage  
Action Plan per Inspection conducted on 9/10/2013

Area ID	Location	Description	Repair Plan
1	NE Corner of Canyon Floor (5:1 sloped area)	<ul style="list-style-type: none"> <li>Observed oversized sediment &amp; debris particles between the primary 60-mil HDPE &amp; GCL material. This condition was observed within an area measures approx. 200-ft wide x 30-ft long at the NE limits of the 5:1 canyon floor.</li> </ul>	<ul style="list-style-type: none"> <li>Remove and replace the two damaged panels of the primary 60-mil HDPE layer</li> <li>Remove and replace the GCL within the described limits (~200' x 30'). The new GCL material must be heat-tacked to the previously installed clean material with a 1' overlap in all directions.</li> </ul>
2	NW Corner of Canyon Floor (5:1 sloped area)	<ul style="list-style-type: none"> <li>Observed some sediment and debris accumulated on top of the 12-oz geotextile layer.</li> </ul>	<ul style="list-style-type: none"> <li>Clean 12-oz geotextile layer by removing sediment and debris found above the 12-oz geotextile layer by using blowers and brooms</li> <li>Remove and replace the damaged 12-oz geotextile fabric located along the Northwest section of Area 2.</li> <li>Install 8-oz geotextile silt interceptor at a distance 5-feet from the upstream edge of the LCRS lateral trench within Area 2. Heat-bond the 8-oz geotextile along the bottom to the existing 12-geotextile.</li> <li>Remove portions of the existing 12-oz Geotextile and the primary 60-mil HDPE along the main LCRS trench to uncover the underlying GCL for inspection &amp; replacement as determined by QA/QC.</li> </ul>
3	Westerly half of Canyon Floor Area, middle section	<ul style="list-style-type: none"> <li>Observed gravel mixed with sediment within approximately one panel width adjacent to &amp; along the main LCRS trench.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the dirty gravel and pull back the 12-oz geotextile &amp; primary 60-mil HDPE to expose the GCL</li> <li>Remove and Replace one panel width of the GCL along the main LCRS trench</li> <li>Clean the primary 60-mil &amp; 12-oz Geotextile before covering the newly placed GCL</li> <li>Install new drainage gravel within this area</li> <li>Install 8-oz silt interceptor along the southerly edge of the existing gravel layer within Area #3. Heat-bond the 8-oz silt interceptor along the bottom to the existing 12-oz geotextile.</li> <li>Clean LCRS drainage pipe</li> </ul>
4	Westerly Half of Canyon Floor Area, Southwest Corner	<ul style="list-style-type: none"> <li>Observed gravel mixed with sediment, and a good portion of the previously installed GCL appeared to be hydrated with possible drop of peel shear strength.</li> <li>Observed damaged to the liner system within an approx. 69' x 73' area at the Southeast corner of Area 4 (all liner layers within this area had already been removed)</li> </ul>	<ul style="list-style-type: none"> <li>Remove and Replace dirty gravel within this area</li> <li>Inspect the primary 60-mil HDPE and geotextile layers after gravel removal and replace as determined by QA/QC</li> <li>Remove and replace all damaged liner layers within the SE corner of Area 4 (secondary 60-mil, GCL, and primary 60-mil)</li> <li>Obtain 7 samples of the GCL and conduct peel shear strength and moisture tests</li> <li>Removing sediment, debris, and gravel found above the 12-oz geotextile layer by using blowers and brooms</li> <li>Remove and replace one panel width of the GCL along the main LCRS trench</li> </ul>
5	West Side - Upper Side Slope	<ul style="list-style-type: none"> <li>Observed sediment stain on the 16-oz geotextile fabric on side slopes.</li> <li>Observed eroded anchor trenches and misaligned scrim layer.</li> </ul>	<ul style="list-style-type: none"> <li>Re-align scrim layer &amp; install sand bags per plan</li> <li>Backfill and compact anchor trenches per plan</li> </ul>
6	Toe Berm, West Half	<ul style="list-style-type: none"> <li>No observed physical damage</li> <li>Potential hydration of GCL on side slopes</li> </ul>	<ul style="list-style-type: none"> <li>Remove portions of the existing 16-oz Geotextile and the primary 80-mil HDPE along the side slopes to uncover the underlying GCL for inspection &amp; replacement if necessary.</li> </ul>
7	Canyon Floor, Southeast (SE) Quarter	<ul style="list-style-type: none"> <li>Observed sediment and debris on existing LPL layer</li> </ul>	<ul style="list-style-type: none"> <li>Remove sediment and debris and regrade LPL layer to achieve final design grades per plan</li> </ul>
8	East Side - Lower side slope & panel width along toe of slope	<ul style="list-style-type: none"> <li>Observed damaged GCL and primary 60-mil panels along toe of slope (one panel width). This condition was observed only within an area between the toe of the toe berm and the 1st LCRS lateral trench.</li> </ul>	<ul style="list-style-type: none"> <li>Remove and replace damaged primary 60-mil and GCL layers</li> </ul>
9	Toe Berm - 24" HDPE pipe culvert	<ul style="list-style-type: none"> <li>Observed damaged 24" HDPE corrugated drainage pipe and eroded slope within the vicinity</li> </ul>	<ul style="list-style-type: none"> <li>Remove the existing eroded engineered fill within the middle section of the toe berm.</li> <li>Install new 24" HDPE corrugated pipe with one concrete collar at the pipe's inlet</li> <li>Place and compact engineered fill material at 95% RC under the observation of QA/QC monitor</li> </ul>
10	Toe Berm - East Half	<ul style="list-style-type: none"> <li>Observed eroded slopes</li> </ul>	<ul style="list-style-type: none"> <li>Repair slopes by filling in erosion rills with compacted engineered fill (95% RC)</li> </ul>
11	East Side Slope - Anchor trench along lower bench	<ul style="list-style-type: none"> <li>Observed eroded anchor trenches</li> </ul>	<ul style="list-style-type: none"> <li>Inspect liner layers for any damage caused by runoff</li> <li>Remove and replace any damaged liner layer(s) as directed by QA/QC and County</li> <li>Backfill and compact anchor trench per plan</li> </ul>
12	East Side Slopes and benches	<ul style="list-style-type: none"> <li>Observed eroded side slopes</li> </ul>	<ul style="list-style-type: none"> <li>Backfill anchor trenches to allow dozer to repair eroded slopes</li> <li>Prepare liner subgrade using smooth drum roller per plan</li> <li>Excavate anchor trenches for liner installation</li> </ul>
13	LCRS Containment Structure	<ul style="list-style-type: none"> <li>Observed sediment and water ponding within structure area</li> </ul>	<ul style="list-style-type: none"> <li>Drain- or pump-out water and remove sediment from structure area</li> <li>Remove forms from walls</li> <li>Check compressive strength of walls by using the Schmidt Hammer test (will be arranged by QA/QC &amp; County)</li> </ul>





**Riverside County**  
**Waste Management Department**

Lamb Canyon Sanitary Landfill  
Ph2Stg4 Liner System Construction  
Initial inspection of  
8/30/2013 Storm Damage

File Directory: sites/lamb/expansion/Ph2Stg4/Const/DGN/PS4 Storm inspection map.dgn

Photo Date : Mor2013 Flight ad P2S4 Subgrade

Scale : 1"=300'

**Attachment 2**

**Summary of Total Final Cost and**

**Daily Time & Material Reports**



2254 Storm Damage Repair

[illegible]

State:

1. All equipment rates are in accordance with those published by Caltrans' "Labor Surcharge and Equipment Rental Rates," dated April 1, 2012 through March 31, 2013.  
2. All Labor rates are obtained from California General Prevailing Wages determination by the Director of Industrial Relations (issued on August 22, 2013) for a number of localities including Riverside County.  
3. Material costs are based on invoices submitted by Salari and DRE.  
Resonnet containing Contract Working Days

**Attachment C**  
**Addendum No.5 Consultant Agreement**



**Riverside County  
Waste Management Department**

*Hans W. Kernkamp, General Manager-Chief Engineer*

**ADDENDUM NO. 5**

**CONSULTANT SERVICES AGREEMENT – Badlands and Lamb Canyon Geotechnical  
Design and Construction Quality Assurance/Quality Control (QA/QC)**

**March 24, 2014**

This Addendum to the Consultant Services Agreement for Badlands and Lamb Canyon Geotechnical Design and Construction Quality Assurance/Quality Control (QA/QC) between County of Riverside and Geosyntec Consultants (Consultant), is issued by the Riverside County Waste Management Department (Department). All other terms of the subject Consultant Services Agreement (Agreement) shall remain unchanged and in effect.

**1. Additional QA/QC Services**

On Friday, August 30, 2013, the expansion project at the Lamb Canyon Landfill was subjected to a heavy rainstorm that caused damage to some of the completed work items. At the request of the Department, the Consultant provided additional Construction Quality Assurance (CQA) services during the repair work which was performed during the period from September 3, 2013 to September 24, 2013. Upon completion of the repair work, the Consultant provided the Department with a final CQA report documenting all repair work activities including the CQA test results.

The Department and Consultant have mutually agreed that the measurement and compensation to the Consultant for performing the additional CQA services during the storm damage repair work would be determined based on "Time and Materials". It was further agreed that the Consultant's staff rates for this additional QA/QC services were based on the 2013 adjusted rates that were approved under Addendum No.3 to the Consultant Agreement. A summary of all the Consultant's costs including labor, equipment, materials, and testing associated with the subject repair work are included in the attached "Time & Material Summary Report". The final compensation amount to Consultant for performing the additional QA/QC services was determined to be \$47,959.87.

**2. COMPENSATION:**

Consultant Agreement, Provision 4, Compensation, is amended by increasing the total amount of compensation paid to the Consultant by \$47,959.87. Based on this increase, the total cost of the Consultant Agreement will increase from \$815,677.50 to \$863,637.37.

3. **SIGNATURES:**

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to Agreement to be duly executed this day and year first above written.

Attachments: Time and Material Summary Report

RIVERSIDE COUNTY WASTE  
MANAGEMENT DEPARTMENT  
14310 Frederick Street  
Moreno Valley, CA 92553

GEOSYNTEC CONSULTANTS.  
2100 Main Street, Suite 150  
Huntington Beach, CA 92648

Dated: \_\_\_\_\_

Dated: 3-24-2014

By \_\_\_\_\_  
Hans Kernkamp,  
General Manager-Chief Engineer

By: Neron Matejovic

Title: Associate

FORM APPROVED COUNTY COUNSEL

BY: NEAL R. KIPNIS DATE 3-24-14

## **ADDENDUM NO. 5**

### **CONSULTANT SERVICES AGREEMENT – Badlands and Lamb Canyon Geotechnical Design and Construction Quality Assurance/Quality Control (QA/QC)**

**March 24, 2014**

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Huntington Beach, CA 92648

Dated: \_\_\_\_\_

Dated: 3-24-2014

By \_\_\_\_\_  
Hans Kernkamp,  
General Manager-Chief Engineer

By: Neven Matasovic

Title: Associate

FORM APPROVED COUNTY COUNSEL

BY: NEAL R. KIPNIS DATE 3/26/14





**Riverside County**  
**Waste Management Department**

*Hans W. Kernkamp, General Manager-Chief Engineer*

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Dated: \_\_\_\_\_

Dated: 3-24-2014

By \_\_\_\_\_

Hans Kernkamp,  
General Manager-Chief Engineer

By: 

Neven Matasovic

Title: Associate

FORM APPROVED COUNTY COUNSEL

BY:   
NEAL R. KIPNIS

DATE 3/26/13



## **Attachment 1**

### **Time and Material Summary Report**

Storm Damage QA/QC Work  
Time and Materials Summary Report  
Based on RCWMD's Adjusted Rates

Date	Employee	Title	Rate	Hours	Labor Cost	Vehicle Expense	Per Diem (Direct Expense)	Other Costs	Cost
9/3/2013	Spencer Marcinek	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/3/2013	Spencer Marcinek	Engineering Technician (1)	\$ 137.50	2.75	\$ 378.13	\$ -	\$ -	\$ -	\$ 378.13
9/3/2013	Chris Conkle	Project Professional	\$ 159.73	11.00	\$ 1,757.03	\$ 66.33	\$ -	\$ -	\$ 1,893.41
9/4/2013	Spencer Marcinek	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/4/2013	Chris Conkle	Project Professional	\$ 159.73	3.00	\$ 479.19	\$ -	\$ -	\$ -	\$ 479.19
9/4/2013	Necun Matosovic	Associate	\$ 199.14	1.00	\$ 199.14	\$ -	\$ -	\$ -	\$ 199.14
9/4/2013	Necun Matosovic	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/4/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73	\$ -	\$ -	\$ -	\$ 159.73
9/4/2013	Necun Matosovic	Associate	\$ 199.14	1.00	\$ 199.14	\$ -	\$ -	\$ -	\$ 199.14
9/5/2013	Aaron Smith	Engineering Technician	\$ 106.34	4.00	\$ 425.36	\$ 66.33	\$ -	\$ 45.00	\$ 546.74
9/6/2013	Spencer Marcinek	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/6/2013	Chris Conkle	Project Professional	\$ 159.73	1.50	\$ 239.60	\$ -	\$ -	\$ -	\$ 239.60
9/9/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/9/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	1.50	\$ 206.25	\$ -	\$ -	\$ -	\$ 206.25
9/9/2013	Chris Conkle	Project Professional	\$ 159.73	0.50	\$ 79.87	\$ -	\$ -	\$ -	\$ 79.87
9/10/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/10/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/10/2013	Chris Conkle	Project Professional	\$ 159.73	11.00	\$ 1,757.03	\$ 66.33	\$ -	\$ 45.00	\$ 1,893.41
9/10/2013	Necun Matosovic	Associate	\$ 199.14	11.00	\$ 2,190.54	\$ -	\$ -	\$ 45.00	\$ 2,280.54
9/11/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/11/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/11/2013	Chris Conkle	Project Professional	\$ 159.73	2.50	\$ 399.33	\$ -	\$ -	\$ -	\$ 399.33
9/11/2013	Lauren Coughlan	Clerical Assistant	\$ 46.67	4.25	\$ 198.34	\$ 66.33	\$ -	\$ -	\$ 264.67
9/12/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/12/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/12/2013	Chris Conkle	Project Professional	\$ 159.73	4.00	\$ 638.92	\$ -	\$ -	\$ -	\$ 638.92
9/12/2013	Necun Matosovic	Associate	\$ 199.14	2.00	\$ 398.28	\$ -	\$ -	\$ -	\$ 398.28
9/12/2013	Justin Sprague	Staff Professional	\$ 106.79	1.50	\$ 160.19	\$ -	\$ -	\$ -	\$ 160.19
9/12/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/12/2013	Chris Conkle	Project Professional	\$ 159.73	3.50	\$ 559.06	\$ -	\$ -	\$ -	\$ 559.06
9/12/2013	Necun Matosovic	Associate	\$ 199.14	1.00	\$ 199.14	\$ -	\$ -	\$ -	\$ 199.14
9/13/2013	Karen Cuthbert	Project Administrator	\$ 57.05	0.00	\$ 0.00	\$ -	\$ -	\$ -	\$ 0.00
9/13/2013	Justin Sprague	Staff Professional	\$ 106.79	1.50	\$ 160.19	\$ -	\$ -	\$ -	\$ 160.19
9/16/2013	Aaron Smith	Engineering Technician	\$ 106.34	8.00	\$ 850.72	\$ 66.33	\$ -	\$ 45.00	\$ 962.05
9/16/2013	Chris Conkle	Project Professional	\$ 159.73	4.00	\$ 638.92	\$ -	\$ -	\$ -	\$ 638.92
9/16/2013	Lauren Coughlan	Project Administrator	\$ 57.05	1.25	\$ 71.31	\$ -	\$ -	\$ -	\$ 71.31
9/16/2013	Necun Matosovic	Associate	\$ 199.14	1.50	\$ 298.71	\$ -	\$ -	\$ -	\$ 298.71
9/17/2013	Aaron Smith	Engineering Technician	\$ 106.34	0.00	\$ 0.00	\$ 66.33	\$ -	\$ 45.00	\$ 1,067.10
9/17/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/17/2013	Chris Conkle	Project Professional	\$ 159.73	6.50	\$ 1,038.25	\$ 66.33	\$ -	\$ 45.00	\$ 1,150.63
9/17/2013	Necun Matosovic	Associate	\$ 199.14	0.50	\$ 99.57	\$ -	\$ -	\$ -	\$ 99.57
9/18/2013	Aaron Smith	Engineering Technician	\$ 106.34	8.00	\$ 850.72	\$ 66.33	\$ -	\$ 45.00	\$ 962.05
9/18/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/18/2013	Chris Conkle	Project Professional	\$ 159.73	2.50	\$ 399.33	\$ -	\$ -	\$ -	\$ 399.33
9/18/2013	Spencer Marcinek	Staff Professional	\$ 106.79	3.00	\$ 320.37	\$ -	\$ -	\$ -	\$ 320.37
9/19/2013	Aaron Smith	Engineering Technician	\$ 106.34	8.00	\$ 850.72	\$ 66.33	\$ -	\$ 45.00	\$ 962.05
9/19/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	2.00	\$ 275.00	\$ -	\$ -	\$ -	\$ 275.00
9/19/2013	Chris Conkle	Project Professional	\$ 159.73	2.50	\$ 399.33	\$ -	\$ -	\$ -	\$ 399.33
9/19/2013	Necun Matosovic	Associate	\$ 199.14	0.50	\$ 99.57	\$ -	\$ -	\$ -	\$ 99.57
9/19/2013	Spencer Marcinek	Staff Professional	\$ 106.79	0.50	\$ 52.90	\$ -	\$ -	\$ -	\$ 52.90
9/19/2013	Alex Steen	Staff Professional	\$ 106.79	4.00	\$ 427.16	\$ -	\$ -	\$ -	\$ 427.16
9/19/2013	Alex Steen	Engineering Technician	\$ 106.34	4.00	\$ 425.36	\$ 66.33	\$ -	\$ 45.00	\$ 546.74
9/20/2013	Aaron Smith	Engineering Technician	\$ 106.34	8.00	\$ 850.72	\$ 66.33	\$ -	\$ 45.00	\$ 962.05
9/20/2013	Aaron Smith	Engineering Technician (1)	\$ 137.50	1.00	\$ 137.50	\$ -	\$ -	\$ -	\$ 137.50
9/20/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46	\$ -	\$ -	\$ -	\$ 319.46
9/20/2013	Necun Matosovic	Associate	\$ 199.14	1.00	\$ 199.14	\$ -	\$ -	\$ -	\$ 199.14
9/21/2013	Aaron Smith	Engineering Technician	\$ 106.34	6.00	\$ 638.04	\$ 66.33	\$ -	\$ 45.00	\$ 749.47
9/21/2013	Spencer Marcinek	Engineering Technician	\$ 106.34	8.00	\$ 850.72	\$ 66.33	\$ -	\$ 45.00	\$ 962.05
9/21/2013	Lauren Coughlan	Project Administrator	\$ 57.05	0.25	\$ 14.26	\$ -	\$ -	\$ -	\$ 14.26
9/21/2013	Spencer Marcinek	Engineering Technician (1)	\$ 137.50	0.00	\$ 0.00	\$ -	\$ -	\$ -	\$ 0.00
9/21/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73	\$ -	\$ -	\$ -	\$ 159.73
9/21/2013	Chris Conkle	Project Professional	\$ 159.73	1.50	\$ 239.60	\$ -	\$ -	\$ -	\$ 239.60
9/21/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73	\$ -	\$ -	\$ -	\$ 159.73
9/26/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46	\$ -	\$ -	\$ -	\$ 319.46
9/27/2013	Chris Conkle	Project Professional	\$ 159.73	1.25	\$ 199.66	\$ -	\$ -	\$ -	\$ 199.66
9/30/2013	Chris Conkle	Project Professional	\$ 159.73	1.50	\$ 239.60	\$ -	\$ -	\$ -	\$ 239.60
9/30/2013	Ana Gomez	Clerical Assistant	\$ 46.67	0.25	\$ 11.67	\$ -	\$ -	\$ -	\$ 11.67
Subtotal:					\$ 32,122.43	\$ 1,460.36	\$ -	\$ 1,169.00	\$ 34,751.79

Laboratory Cost			
Date	Laboratory	Test Conducted	Cost
9/12/2013	TRI Environmental	ASTM D6-96 Peel test for GCL ASTM D5993 class A/area plus MIC (Quantity 3)	\$ 237.00
9/13/2013	TRI Environmental	ASTM D6-96 Peel test for GCL ASTM D5993 class A/area plus MIC (Quantity 4)	\$ 316.00
9/16/2013	TRI Environmental	ASTM D6-96 Peel test for GCL ASTM D5993 class A/area plus MIC (Quantity 2)	\$ 458.00
9/16/2013 - 9/17/2013	Twining	Schmidt Hammer Testing	\$ 510.00
Subtotal: \$ 1,521.00			

Postage/Courier			
Date	Carrier	Unit Cost	Cost
9/15/2013	National Messenger	\$ 121.89	\$ 121.89

SubTotal Cost for Storm Repair Support for Period between 9/30/2013 to 9/30/2013:	\$ 36,769.68
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Storm Damage Repair Work Performed by Geosyntec Staff after 9/30/2013 (office work)

Date	Employee	Title	Rate	Hours	Labor Cost
10/3/2013	Ana Gomez	Clerical Assistant	\$ 46.67	0.25	\$ 11.67
11/27/2013	Susan English	Project Administrator	\$ 57.05	1.00	\$ 57.05
10/1/2013	Karen Cuthbert	Project Administrator	\$ 57.05	0.50	\$ 28.53
12/9/2013	Karen Cuthbert	Project Administrator	\$ 57.05	1.00	\$ 57.05
11/30/2013	Ed Seymour	Project Administrator	\$ 57.05	1.00	\$ 57.05
10/1/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73
10/3/2013	Chris Conkle	Project Professional	\$ 159.73	1.50	\$ 239.60
10/4/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73
10/7/2013	Chris Conkle	Project Professional	\$ 159.73	9.00	\$ 1,437.57
10/8/2013	Chris Conkle	Project Professional	\$ 159.73	4.25	\$ 678.85
10/9/2013	Chris Conkle	Project Professional	\$ 159.73	5.00	\$ 798.65
10/11/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
10/14/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
10/15/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
10/16/2013	Chris Conkle	Project Professional	\$ 159.73	0.50	\$ 79.87
10/17/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
11/4/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
11/5/2013	Chris Conkle	Project Professional	\$ 159.73	4.00	\$ 638.92
11/6/2013	Chris Conkle	Project Professional	\$ 159.73	4.00	\$ 638.92
11/7/2013	Chris Conkle	Project Professional	\$ 159.73	4.00	\$ 638.92
11/8/2013	Chris Conkle	Project Professional	\$ 159.73	2.50	\$ 399.33
11/11/2013	Chris Conkle	Project Professional	\$ 159.73	5.00	\$ 798.65
11/12/2013	Chris Conkle	Project Professional	\$ 159.73	5.50	\$ 878.52
11/18/2013	Chris Conkle	Project Professional	\$ 159.73	2.00	\$ 319.46
11/19/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73
11/25/2013	Chris Conkle	Project Professional	\$ 159.73	0.25	\$ 39.93
10/10/2013	Chris Conkle	Project Professional	\$ 159.73	1.00	\$ 159.73
10/16/2013	Necun Matosovic	Associate	\$ 199.14	1.00	\$ 199.14
11/4/2013	Necun Matosovic	Associate	\$ 199.14	4.00	\$ 796.56
SubTotal Cost for Storm Repair Support for Period between 9/30/2013 to 11/27/2013:					
					\$ 11,190.19

Total Geosyntec Cost for Storm Repair Support:	\$ 47,959.87
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