

# CONTRACT ROUTING SHEET

Date Prepared: 12/06/2010

Need Date: 12/07/2010

**PROCESSING DEPARTMENT:**

Department: Environmental Mgmt  
Dept. Contact: Kristin Davis  
Phone #: 6664  
Department Head Signature: 

**CONTRACTOR:**

Name: Geosyntec Consultants  
Address: 475 14<sup>th</sup> Street, Suite 400  
Oakland, CA 94612  
Phone: (510) 541-2126

**CONTRACTING DEPARTMENT:** Environmental Management-CHARGE TO 424100


Service Requested: Legal & Risk review of proposed second amendment to contract with Geosyntec

Contract Term: 1 year Contract/Amendment Value: \$302,911.41

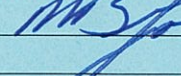
Compliance with Human Resources requirements? Yes:  No:

Compliance verified by: \_\_\_\_\_

**COUNTY COUNSEL:** (Must approve all contracts and MOU's)

Approved:  Disapproved:  Date: 12/6/10 By:   
Approved:  Disapproved:  Date: \_\_\_\_\_ By: \_\_\_\_\_

**RISK MANAGEMENT:** (All contracts and MOU's except boilerplate grant funding agreements)

Approved:  Disapproved:  Date: 12/6/10 By:   
Approved:  Disapproved:  Date: \_\_\_\_\_ By: \_\_\_\_\_

**OTHER APPROVAL:** (Specify department(s) participating or directly affected by this contract)

Departments:  
Approved:  Disapproved:  Date: \_\_\_\_\_ By: \_\_\_\_\_  
Approved:  Disapproved:  Date: \_\_\_\_\_ By: \_\_\_\_\_

EL PASO COUNTY COUNSEL  
2010 DEC - 6 PM 3:01

RECEIVED  
HUMAN RESOURCES DEPT  
10 DEC - 6 PM 2:30



**Second Amendment to Contract No. 017-A-09/10-BOS  
Between the County of El Dorado and  
Geosyntec Consultants, Inc**

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**THIS SECOND AMENDMENT TO CONTRACT No. 017-A-09/10-BOS** made and entered between the County of El Dorado, a political subdivision of the State of California (hereinafter referred to as "County"), and Geosyntec Consultants Inc., duly qualified to conduct business in the State of California, whose principal place of business is 475 14<sup>th</sup> Street, Suite 400 Oakland, CA 94612 (hereinafter referred to as "Consultant") hereby amends the Contract as follows:

**WITNESSETH**

**WHEREAS**, County has determined that in order to complete the Cap System, French Drain and Landfill Gas Emission Control System Operable Unit 1 at the Meyers Landfill, said project shall extend into the 2011 construction season, the parties hereto have mutually agreed to amend Article IV; and,

**WHEREAS**, County has determined that based on the site conditions and the extent of work that was not included in the Final 100% Remedial Design provided to the County by the Forest Service, the fee schedule for the 2010 construction season shall be revised, the parties hereto have mutually agreed to amend Article V.

**NOW, THEREFORE**, County and Consultant mutually agree that Contract No. 017-A-09/10-BOS be amended a second time as follows:

**ARTICLE IV**

**Term:** This Contract shall be amended to extend for one (1) year, expiring on December 31, 2011.

**ARTICLE V**

**Compensation for Services:**

- A.** For services provided herein, County agrees to pay Consultant by tasks, upon receipt of itemized invoices detailing a description of work performed. Payments shall be made within sixty (60) days following County's receipt and approval of invoices. For the purposes hereof, the billing rate for the 2010 construction season shall be in accordance with Exhibit "B" marked "Amended Fee Schedule" and the billing rate for the 2011 construction season shall be in accordance with Exhibit "C" marked "2011 Fee Schedule" attached hereto and incorporated herein.
- B.** The total payment pursuant to this Agreement shall be amended to increase the total amount by Three Hundred Two Thousand Nine Hundred Eleven dollars and Forty One cents (\$302,911.41). The total payment under this Agreement to Consultant **SHALL**

**NOT EXCEED Six Hundred Fifty Two Thousand Eight Hundred Forty dollars and Forty One cents (\$652,840.41).**

All other sections of the Contract No. 017-A-09/10-BOS, dated the 7th day of June, 2010 and the First Amendment made and entered into the 29<sup>th</sup> day of June, 2010 shall remain unchanged and in full force.

**REQUESTING DEPARTMENT CONCURRENCE:**

**By:** \_\_\_\_\_ **Dated:** \_\_\_\_\_

**Gerri Silva, M.S., REHS**  
**Environmental Management Director**

**IN WITNESS WHEREOF**, the parties hereto have executed this Second Amendment to Contract No. 017-A-09/10 BOS the day and year last below written.

**- - COUNTY OF EL DORADO - -**

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

**By:** \_\_\_\_\_  
**Chair**  
**Board of Supervisors**

**ATTEST:**

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

**By:** \_\_\_\_\_  
**Suzanne Allen de Sanchez, Clerk of the**  
**Board of Supervisors**

**- - CONSULTANT - -**

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

**By:** \_\_\_\_\_  
**Dr. Hari D. Sharma, P.E., G.E., Principal**  
**Geosyntec Consultants, Inc.**

**EXHIBIT "B"**

**AMENDED FEE SCHEDULE**

**Exhibit B - Amended  
 COST ESTIMATE FOR 2010 CQA SERVICES  
 LANDFILL CLOSURE CONSTRUCTION  
 MEYERS LANDFILL OU-1  
 El Dorado County, California**

ITEM	UNIT	UNIT RATE	NUMBER	UNADJUSTED COST	MARK-UP	ADJUSTED TOTAL
<b>TASK 1 - CQA FIELD SERVICES</b>						
1.01	CQA Officer	hour	\$ 159.16	63.5	\$10,107	1 \$ 10,106.66
1.02	Assistant CQA Manager	hour	\$ 124.55	122.5	\$15,257	1 \$ 15,257.38
1.03	CQA Field Manager	hour	\$ 73.81	1094	\$80,748	1 \$ 80,748.14
1.04	Field Monitor	hour	\$ 65.75	0	\$0	1 \$ -
1.05	Per Diem - CQA Field Manager	day	\$ 39	115	\$4,485	1 \$ 4,485.00
1.06	Lodging/Utilities - CQA Field Manager	month	\$ 858	5	\$4,290	1 \$ 4,290.00
1.07	Vehicle/Fuel - CQA Field Manager	day	\$ 100	112	\$11,200	1 \$ 11,200.00
1.08	Per Diem - Field Monitor	day	\$ 39	0	\$0	1 \$ -
1.09	Lodging/Utilities - Field Monitor	week	\$ 700	0	\$0	1 \$ -
1.10	Vehicle/Fuel - Field Monitor	day	\$ 100	0	\$0	1 \$ -
1.11	Nuclear Density Gauge	week	\$ 210	9.5	\$1,995	1 \$ 1,995.00
1.12	Sample Shipping	lump	\$ 510	1	\$510	1 \$ 510.00
1.13	Miscellaneous Field Supplies	lump	\$ 1,510	1	\$1,510	1 \$ 1,510.00
<b>Total Task 1</b>						<b>\$130,102.18</b>
<b>TASK 2 - LABORATORY TESTING</b>						
<b>Foundation Layer (35,500 CY)</b>						
2.01	Moisture-Density Curves (ASTM D 1557)	lump	\$ 1,318	1	\$1,318	1.1 \$ 1,449.80
2.02	Sieve Analysis (ASTM D 422)	lump	\$ 428	1	\$428	1.1 \$ 470.80
<b>Sand Drainage Layer (3,500 CY)</b>						
2.03	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
2.04	Sieve Analysis (ASTM D 422)	each	\$ 40	0	\$0	1.1 \$ -
<b>Cover Soil (35,500 CY)</b>						
2.05	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
2.06	Sieve Analysis (ASTM D 422)	each	\$ 40	0	\$0	1.1 \$ -
2.07	Volatile Organic Compounds (EPA 8260B)	each	\$ 85	0	\$0	1.1 \$ -
2.08	Total Petroleum Hydrocarbons-Gas (EPA 8260B)	each	\$ 85	0	\$0	1.1 \$ -
2.09	Total Petroleum Hydrocarbons-Diesel (EPA 8015)	each	\$ 40	0	\$0	1.1 \$ -
2.10	CAM-17 Metals (EPA 6010B and 7470A/7471A)	each	\$ 85	0	\$0	1.1 \$ -
<b>Vegetative Soil Layer (17,700 CY)</b>						
2.11	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
2.12	Volatile Organic Compounds (EPA 8260B)	each	\$ 85	0	\$0	1.1 \$ -
2.13	Total Petroleum Hydrocarbons-Gas (EPA 8260B)	each	\$ 85	0	\$0	1.1 \$ -
2.14	Total Petroleum Hydrocarbons-Diesel (EPA 8015)	each	\$ 40	0	\$0	1.1 \$ -
2.15	CAM-17 Metals (EPA 6010B and 7470A/7471A)	each	\$ 85	0	\$0	1.1 \$ -
2.16	Agronomy Tests	each	\$ 75	0	\$0	1.1 \$ -
<b>General Fill in Trenches</b>						
2.17	Moisture-Density Curves (ASTM D 1557)	lump	\$ 964	1	\$964	1.1 \$ 1,060.40
<b>Access Road</b>						
2.18	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
<b>Drainage Channel Base Material</b>						
2.19	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
<b>Compacted Fill in French Drain</b>						
2.20	Moisture-Density Curves (ASTM D 1557)	each	\$ 120	0	\$0	1.1 \$ -
<b>Concrete</b>						
2.21	Strength Test (ASTM C 31)	each	\$ 60	0	\$0	1.1 \$ -

**Exhibit B - Amended  
COST ESTIMATE FOR 2010 CQA SERVICES  
LANDFILL CLOSURE CONSTRUCTION  
MEYERS LANDFILL OU-1  
El Dorado County, California**

ITEM	UNIT	UNIT RATE	NUMBER	UNADJUSTED COST	MARK-UP	ADJUSTED TOTAL
<b>60 mil DS Textured Geomembrane (479,000 SF)</b>						
2.22	Sheet Density (ASTM D 1505)	each	\$ 15	0	\$0	1.1 \$ -
2.23	Carbon Black Content (ASTM D 1603)	each	\$ 22	0	\$0	1.1 \$ -
2.24	Carbon Black Dispersion (ASTM D 5596)	each	\$ 25	0	\$0	1.1 \$ -
2.25	Thickness (ASTM D 5199)	each	\$ 6	0	\$0	1.1 \$ -
2.26	Tensile Properties (ASTM D 6693)	each	\$ 45	0	\$0	1.1 \$ -
2.27	Tear Resistance (ASTM D 1004)	each	\$ 42	0	\$0	1.1 \$ -
2.28	Puncture Resistance (ASTM D 4833)	each	\$ 30	0	\$0	1.1 \$ -
2.29	Oxidative Induction Time (ASTM D 3895)	each	\$ 125	0	\$0	1.1 \$ -
2.30	Seam Peel and Shear (ASTM D 6392)	each	\$ 17	0	\$0	1.1 \$ -
2.31	In-plant Sampling	hour	\$ 25	0	\$0	1.1 \$ -
<b>Geocomposite (479,000 SF)</b>						
<u>Geonet Component</u>						
2.32	Density (ASTM D 1505)	lump	\$ 66	1	\$66	1.1 \$ 72.60
2.33	Thickness (ASTM D 5199)	lump	\$ 30	1	\$30	1.1 \$ 33.00
2.34	Tensile Strength (ASTM D 5035)	lump	\$ 270	1	\$270	1.1 \$ 297.00
2.35	Carbon Black Content (ASTM D 1603)	lump	\$ 150	1	\$150	1.1 \$ 165.00
<u>Geotextile Component</u>						
2.36	Grab Strength (ASTM D 4632)	lump	\$ 600	1	\$600	1.1 \$ 660.00
2.37	Mass Per Unit Area (ASTM D 5261)	lump	\$ 225	1	\$225	1.1 \$ 247.50
2.38	Puncture Resistance (ASTM D 4833)	lump	\$ 525	1	\$525	1.1 \$ 577.50
2.39	Trapezoidal Tear Strength (ASTM D 4533)	lump	\$ 525	1	\$525	1.1 \$ 577.50
2.40	Permittivity (ASTM D 4491)	lump	\$ 825	1	\$825	1.1 \$ 907.50
2.41	AOS (ASTM D 4751)	lump	\$ 1,050	1	\$1,050	1.1 \$ 1,155.00
2.42	Ultraviolet Stability (ASTM D 4355)	each	\$ 198	0	\$0	1.1 \$ -
<u>Geocomposite</u>						
2.43	Transmissivity (ASTM D 4716)	lump	\$ 510	1	\$510	1.1 \$ 561.00
2.44	Geonet/Geotextile Adhesion (GSI GRI GC7)	lump	\$ 270	1	\$270	1.1 \$ 297.00
2.45	In-plant Sampling	hour	\$ 30	0	\$0	1.1 \$ -
<b>8 oz/yd<sup>2</sup> Nonwoven Geotextile</b>						
2.46	Grab Strength (ASTM D 4632)	each	\$ 42	0	\$0	1.1 \$ -
2.47	Mass Per Unit Area (ASTM D 5261)	each	\$ 15	0	\$0	1.1 \$ -
2.48	Puncture Resistance (ASTM D 4833)	each	\$ 30	0	\$0	1.1 \$ -
2.49	Trapezoidal Tear Strength (ASTM D 4533)	each	\$ 42	0	\$0	1.1 \$ -
2.50	Permittivity (ASTM D 4491)	each	\$ 60	0	\$0	1.1 \$ -
2.51	AOS (ASTM D 4751)	each	\$ 70	0	\$0	1.1 \$ -
2.52	In-plant Sampling	hour	\$ 30	0	\$0	1.1 \$ -
<b>Geogrid (988,000 SF)</b>						
2.53	Tensile Properties (ASTM D 6637)	lump	\$ 2,250	1	\$2,250	1.1 \$ 2,475.00
2.54	In-plant Sampling	lump	\$ 86	1	\$86	1.1 \$ 94.34
<b>Interface Shear Strength</b>						
2.55	Geomembrane vs Geocomposite (ASTM D 45321)	3-point	\$ 475	0	\$0	1.1 \$ -
2.56	Geomembrane vs Drainage Sand (ASTM D 46243)	3-point	\$ 600	0	\$0	1.1 \$ -
2.57	Drainage Gravel Testing	lump	\$ 110	1	\$110	1.1 \$ 121.00
<b>Total Task 2</b>						<b>\$ 11,221.94</b>
<b>TASK 3 - CQA REPORT</b>						
3.01	Principal	hour	\$ 192.65	0	\$0	1 \$ -
3.02	QA Officer	hour	\$ 159.16	0	\$0	1 \$ -
3.03	Assistant QA Manager	hour	\$ 124.55	0	\$0	1 \$ -
3.04	Field Manager	hour	\$ 73.81	0	\$0	1 \$ -
3.05	Technical Word Processor	hour	\$ 62.00	2	\$124	1 \$ 124.00
3.06	CADD Designer	hour	\$ 98.00	0	\$0	1 \$ -
3.07	CADD System	hour	\$ 12	0	\$0	1 \$ -
3.08	Reproduction/Shipment	lump	\$ 2,000	0	\$0	1 \$ -
<b>Total Task 3</b>						<b>\$ 124.00</b>

**Exhibit B - Amended  
COST ESTIMATE FOR 2010 CQA SERVICES  
LANDFILL CLOSURE CONSTRUCTION  
MEYERS LANDFILL OU-1  
El Dorado County, California**

ITEM	UNIT	UNIT RATE	NUMBER	UNADJUSTED COST	MARK-UP	ADJUSTED TOTAL
<b>TASK 4 - PROJECT MANAGEMENT/ADMINISTRATION/MEETINGS</b>						
4.01 QA Officer	hour	\$ 159.16	262	\$41,700	1	\$ 41,699.92
4.02 Assistant QA Manager	hour	\$ 124.55	57.5	\$7,162	1	\$ 7,161.63
4.03 Vehicle/Fuel	day	\$ 100	16	\$1,600	1	\$ 1,600.00
4.04 Miscellaneous	lump	\$ 500	1	\$500	1	\$ 500.00
4.05 Admin Assistant	hour	\$ 57.70	24.5	\$1,414	1	\$ 1,413.65
<b>Total Task 4</b>						<b>\$ 52,375.20</b>
<b>TASK 5 - AIR, NOISE, and STORMWATER MONITORING</b>						
5.01 CQA Officer	hour	\$ 159.16	19	\$3,024	1	\$ 3,024.04
5.02 Assistant CQA Manager	hour	\$ 124.55	37.5	\$4,671	1	\$ 4,670.63
5.03 Field Monitor	hour	\$ 65.75	968	\$63,646	1	\$ 63,646.00
Rental Monitoring Equipment						
5.05 Dust Meters	month	\$ 2,229.00	5	\$11,145	1	\$ 11,145.00
5.06 Methane/H2S Meters	month	\$ 2,326.00	2.5	\$5,815	1	\$ 5,815.00
5.07 Weather Station	month	\$ 468.00	5	\$2,340	1	\$ 2,340.00
5.08 Noise Meters	month	\$ 795.00	5	\$3,975	1	\$ 3,975.00
5.09 VOCs Lab testing	lump	\$ 3,800.00	1	\$3,800	1.1	\$ 4,180.00
5.10 Stormwater Lab Testing	lump	\$ 12,600.00	1	\$12,600	1.1	\$ 13,860.00
5.11 Per Diem - Field Monitor	day	\$ 39	3	\$117	1	\$ 117.00
5.12 Lodging/Utilities - Field Monitor	month	\$ 533	5	\$2,665	1	\$ 2,665.00
5.13 Vehicle/Fuel - Field Monitor	day	\$ 80	80	\$6,400	1	\$ 6,400.00
5.14 Miscellaneous Field Supplies	lump	\$ 334	1	\$334	1	\$ 334.00
<b>Total Task 5</b>						<b>\$ 122,171.67</b>
<b>GRAND TOTAL</b>						<b>\$ 315,994.97</b>

**Notes:****TASK 1 - COA FIELD SERVICES**

- 1- Assumes 104 working days at 10 hours per day, or 1040 onsite hours plus two 8-hr days for mob/demob for the CQA Field Manager. Since an
- 2- In-situ nuclear density and moisture content testing to be completed by field personnel at no additional cost.
- 3- Includes 6 hrs per week for Assistant QA Manager and 4 hours per week for QA Officer for 21 weeks for reviewing construction documentation

**TASK 2 - LABORATORY TESTING**

- 1- Geosynthetic laboratory testing to be performed by Precision Geosynthetic Laboratory in Anaheim, California.
- 2- Soil and concrete laboratory testing to be performed by Pezonella Geotechnical Laboratory in Reno, NV.
- 3- Geosynthetic quantities increased by 10% to account for wastage and overlap.
- 4- Geosyntec will perform in-plant sampling of geosynthetics to expedite conformance testing schedule.
- 5- Assumes laboratory testing to be conducted under a subcontract agreement with Geosyntec Consultants.
- 6- If additional specifications are issued by the Design Engineer, additional testing may be required.

**TASK 3 - COA REPORT**

- 1- 4 hard copies of the Draft Report and 10 copies (hard copies and electronic) of the Final Report will be submitted to the County.

**TASK 4 - PROJECT MANAGEMENT/ADMINISTRATION/MEETINGS**

- 1- Assumes one onsite kick-off meeting, one onsite pre-construction meeting, and 21 onsite progress meetings (including Final Sitewalk) attended by

**TASK 5 - AIR, NOISE, and STORMWATER MONITORING**

- 1- Assumes 94 working days at 10 hours per day, or 940 hours for the Field Monitor. Actual costs will depend on the duration of construction.
- 2- Includes 2 hr per week for Assistant QA Manager and 1 hours per week for QA Officer for 19 weeks for data review and coordinating with the



**EXHIBIT "C"**

**2011 FEE SCHEDULE**

Exhibit C - 12/14/2010  
**COST ESTIMATE FOR 2011 CQA SERVICES and AIR/NOISE MONITORING**  
**LANDFILL CLOSURE CONSTRUCTION**  
**MEYERS LANDFILL OU-1**  
**El Dorado County, California**

Geosyntec Consultants, Inc.

ITEM	UNIT	UNIT RATE	NUMBER	UNADJUSTED COST	MARK- UP	ADJUSTED TOTAL
<b>TASK 1 - CQA FIELD SERVICES</b>						
1.01 CQA Officer	hour	\$ 159.16	72	\$11,460	1	\$11,459.52
1.02 Assistant CQA Manager	hour	\$ 124.55	108	\$13,451	1	\$13,451.40
1.03 CQA Field Manager	hour	\$ 73.81	906	\$66,872	1	\$66,871.86
1.04 Field Monitor	hour	\$ 65.75	178	\$11,704	1	\$11,703.50
1.05 Per Diem - CQA Field Manager	day	\$ 40	89	\$3,560	1	\$3,560.00
1.06 Per Diem - Field Monitor	day	\$ 40	17	\$680	1	\$680.00
1.07 Lodging/Utilities (All Personnel)	month	\$ 2,200	4	\$8,800	1	\$8,800.00
1.08 Vehicles/Fuel (CQA Manager and Field Monitor)	day	\$ 100	109	\$10,900	1	\$10,900.00
1.09 Nuclear Density Gauge	week	\$ 210	5	\$1,050	1	\$1,050.00
1.10 Miscellaneous (Shipping, Supplies, etc.)	lump	\$ 1,500	1	\$1,500	1	\$1,500.00
<b>Total Task 1</b>						<b>\$129,976.28</b>
<b>TASK 2 - LABORATORY TESTING</b>						
2.11 Geotechnical Soils Laboratory Testing	lump	\$ 7,913	1	\$7,913	1.1	\$8,704.30
2.12 EPA SW-846 Testing	lump	\$ 2,950	1	\$2,950	1.1	\$3,245.00
2.13 Agronomy Tests	lump	\$ 900	1	\$900	1.1	\$990.00
2.14 Geosynthetics Laboratory Testing	lump	\$ 4,639	1	\$4,639	1.1	\$5,102.90
<b>Total Task 2</b>						<b>\$18,042.20</b>
<b>TASK 3 - CQA REPORT</b>						
3.15 Principal	hour	\$ 192.65	8	\$1,541	1	\$1,541.20
3.16 CQA Officer	hour	\$ 159.16	32	\$5,093	1	\$5,093.12
3.17 Assistant CQA Manager	hour	\$ 124.55	60	\$7,473	1	\$7,473.00
3.18 CQA Field Manager	hour	\$ 73.81	24	\$1,771	1	\$1,771.44
3.19 Technical Word Processor	hour	\$ 62.00	8	\$496	1	\$496.00
3.20 CADD Designer	hour	\$ 98.00	16	\$1,568	1	\$1,568.00
3.21 CADD System	hour	\$ 12	16	\$192	1	\$192.00
3.22 Miscellaneous (Reproduction, Shipment, etc.)	lump	\$ 2,000	1	\$2,000	1	\$2,000.00
<b>Total Task 3</b>						<b>\$20,134.76</b>
<b>TASK 4 - PROJECT MANAGEMENT/ADMINISTRATION/MEETINGS</b>						
4.23 CQA Officer	hour	\$ 159.16	232	\$36,925	1	\$36,925.12
4.24 Assistant CQA Manager	hour	\$ 124.55	60	\$7,473	1	\$7,473.00
4.25 Administrative Assistant	hour	\$ 57.70	40	\$2,308	1	\$2,308.00
4.26 Vehicle/Fuel	day	\$ 100	20	\$2,000	1	\$2,000.00
4.27 Miscellaneous	lump	\$ 500	1	\$500	1	\$500.00
<b>Total Task 4</b>						<b>\$49,206.12</b>

Exhibit C - 12/14/2010  
**COST ESTIMATE FOR 2011 CQA SERVICES and AIR/NOISE MONITORING**  
**LANDFILL CLOSURE CONSTRUCTION**  
**MEYERS LANDFILL OU-1**  
**El Dorado County, California**

Geosyntec Consultants, Inc.

ITEM	UNIT	UNIT RATE	NUMBER	UNADJUSTED COST	MARK- UP	ADJUSTED TOTAL
<b>TASK 5 - AIR, NOISE, and STORMWATER MONITORING</b>						
5.28	CQA Officer	hour	\$ 159.16	18	\$2,865	1 \$2,864.88
5.29	Assistant CQA Manager	hour	\$ 124.55	54	\$6,726	1 \$6,725.70
5.30	Field Monitor	hour	\$ 65.75	810	\$53,258	1 \$53,257.50
5.31	Rental Monitoring Equipment	month	\$ 4,422.00	4	\$17,688	1 \$17,688.00
5.32	Stormwater Sampling/Testing	event	\$ 4,250.00	6	\$25,500	1.1 \$28,050.00
5.33	Per Diem - Field Monitor	day	\$ 40	109	\$4,360	1 \$4,360.00
5.34	Offroad Vehicle/Fuel - Field Monitor	day	\$ 80	78	\$6,240	1 \$6,240.00
5.35	Miscellaneous Field Supplies	lump	\$ 300	1	\$300	1 \$300.00
<b>Total Task 5</b>						<b>\$119,486.08</b>
<b>GRAND TOTAL</b>						<b>\$336,845.44</b>

**Notes:**

**TASK 1 - CQA FIELD SERVICES**

- 1- Assumes 89 working days at 10 hours per day, or 890 onsite hours plus two 8-hr days for mob/demob for the CQA Field Manager. Since an additional Field Monitor will be required during 17 days of the project for geomembrane installation, an additional 170 onsite hours plus one 8-hr day for mob/demob are included for a Field Monitor. Actual costs will depend on the duration of construction.
- 2- Includes 4 hours per week for CQA Officer and 6 hrs per week for Assistant CQA Manager for 18 weeks for reviewing construction documentation (submittals, lab data, field reports, meeting minutes, etc.) and coordinating with the County, contractors, field personnel, and laboratories.

**TASK 2 - LABORATORY TESTING**

- 1- Geosynthetic laboratory testing to be performed by Precision Geosynthetic Laboratory in Anaheim, California.
- 2- Geotechnical Soil and concrete laboratory testing to be performed by Sierra Testing Laboratory in El Dorado Hills, California.
- 3- Assumes laboratory testing to be conducted under a subcontract agreement with Geosyntec Consultants.
- 4- Additional testing may be required if additional specifications are issued by the Design Engineer and/or construction quantities increase.
- 5- EPA SW-846 testing for cover soil and vegetative soil layers only to be performed by Test America of West Sacramento.
- 6- Agronomy testing for approximately 12 acres of vegetative soil layer only. Additional testing may be required if construction area increases.

**TASK 3 - CQA REPORT**

- 1- Includes 4 hard copies of the Draft Report and 10 copies (hard copies and electronic) of the Final Report will be submitted to the County.

**TASK 4 - PROJECT MANAGEMENT/ADMINISTRATION/MEETINGS**

- 1- Assumes 1 onsite kick-off meeting, 1 onsite pre-construction meeting, and 18 onsite progress meetings (including Final Sitewalk) attended by the CQA Officer. Assumes Assistant CQA Manager to attend weekly meetings by teleconference.

**TASK 5 - AIR, NOISE, and STORMWATER MONITORING**

- 1- Assumes 78 working days at 10 hours per day, or 780 hours for the Field Monitor. Actual costs will depend on during of construction.
- 2- Includes 1 hour per week for CQA Officer and 3 hours per week for Assistant CQA Manager for 18 weeks for data review and coordinating with the County, contractors, and field personnel.
- 3- Rental equipment includes two PM10 dust meters, two noise dosimeters, one weather station, and one set of back up meters.
- 4- Stormwater lab testing includes tests for 2 stormwater sampling events. Additional testing will depend on the stormwater management and weather conditions at the time of construction.