

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



ITEM: 12.2
(ID # 19703)

MEETING DATE:

Tuesday, August 02, 2022

FROM : DEPARTMENT OF WASTE RESOURCES:

SUBJECT: DEPARTMENT OF WASTE RESOURCES: Approve the Professional Services Agreement with Geo-Logic Associates, Inc for Geological, Geotechnical and Construction Quality Assurance/Quality Control (QA/QC) Services at the Badlands Sanitary Landfill for two years; District 5. [\$1,190,026 Total Cost; up to \$119,003 in additional compensation - Department of Waste Resources Enterprise Funds 100%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve the Professional Service Agreement with Geologic Associates, Inc. for Geological, Geotechnical and Construction QA/QC Services at the Badlands Sanitary Landfill for a total aggregate amount of \$1,190,026 for two years through December 31, 2024, and authorize the Chairman of the Board to sign the Agreement on behalf of the County; and
2. Authorize the Purchasing Agent, in accordance with Ordinance No. 459, based on the availability of fiscal funding and as approved as to form by County Counsel, to sign amendments that exercise the options of the agreement including modifications of the scope of services that stay within the intent of the Agreement, and sign amendments to the compensation provisions that do not exceed the sum total of \$119,002.60.

ACTION:Policy

Handwritten signature of Hans Kemkamp in black ink.

Hans Kemkamp, General Manager - Chief Engineer

7/26/2022

Handwritten signature of Cynthia M. Gunzel in black ink.

Cynthia M. Gunzel, Chief Deputy County Counsel

7/28/2022

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Washington, seconded by Supervisor Jeffries and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Spiegel, Washington, Perez and Hewitt
Nays: None
Absent: None
Date: August 2, 2022
xc: Waste

Kecia R. Harper
Clerk of the Board
By: Handwritten signature of Kecia R. Harper in blue ink.
Deputy

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STATE OF CALIFORNIA**

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 595,013	\$ 595,013	\$ 1,190,026	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: Waste Resources Enterprise Funds			Budget Adjustment: No	
			For Fiscal Year: 22/23 – 24/25	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

The Department is required to perform geological and geotechnical studies, as well as independent third-party construction QA/QC for the upcoming project referred to as “Phase II Stage I Landfill Expansion, at the Badlands Sanitary Landfill” (Liner Project).

The Liner Project will expand the size of the disposal area at the Badlands Sanitary Landfill by approximately 33 acres, in accordance with the requirements of Title 27 of the California Code of Regulations (CCR), and Subtitle D of Title 40 the Code of Federal Regulations (CFR). The Project is permitted by the site's Solid Waste Facility Permit (SWFP) issued by CalRecycle. Final design details and contract documents for the installation of the geosynthetic liner system are currently being prepared by the Department. The Liner Project is critical to the Department's ongoing mission to provide adequate long-term disposal capacity to the residents of Riverside County.

Prev. Agn. Ref.: M.O. 12.5 of 09/25/18
M.O. 12.1 of 01/25/11
M.O. 12.2 of 12/15/15

Impact on Residents and Businesses

The Project will generate 2.7 million tons of additional landfill airspace that will extend site's life by approximately 3 years.

Additional Fiscal Information

No general funds are being used for this project.

Contract History and Price Reasonableness

County Purchasing Department released a Request for Proposal (RFP) WMARC-426, soliciting proposals for Geological, Geotechnical and Construction QA/QC Services at the Badlands Sanitary Landfill on behalf of the Department. The RFP was sent to over fifty (50+) potential bidders and was advertised on the Purchasing web site. Two (2) bid responses were received in response to the RFP. The proposals were reviewed by the evaluation team from Department

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Staff. Each bid response was evaluated based on the criteria set forth in the RFP: overall responses to the RFP requirements and project tasks, bidders experience and technical ability, cost & fees, references, credentials, resumes, licenses, certifications and financials. The cost proposal range submitted was from \$901,853.80 to \$1,344,152.00. The County of Riverside requested Best and Final offer from the two firms resulting in final cost proposal from Geologic Associates, Inc. (GLA) of \$1,190,026.00.

Based on the overall summation of the proposals submitted, it is the recommendation of the evaluation team to select GLA as the most responsive/responsible bidder for these services.

ATTACHMENT A. PROFESSIONAL SERVICES AGREEMENT


Suzanna Hickley, Assistant Director of Purchasing and Fleet Service

7/28/2022


Jason Farin, Principal Management Analyst

7/28/2022

PROFESSIONAL SERVICE AGREEMENT

for

**GEOLOGICAL, GEOTECHNICAL AND CONSTRUCTION QA/QC SERVICES AT THE
BADLANDS SANITARY LANDFILL**

between

COUNTY OF RIVERSIDE

and

GEOLOGIC ASSOCIATES, INC.



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This Agreement is made and entered into this ____ day of _____, 2022, by and between GEOLOGIC ASSOCIATES, INC., a California corporation (herein referred to as "CONTRACTOR"), and the COUNTY OF RIVERSIDE, a political subdivision of the State of California, (herein referred to as "COUNTY"). The parties agree as follows:

1. Description of Services

1.1 CONTRACTOR shall provide all services as outlined and specified in Exhibit A, Scope of Services and at the prices stated in Exhibit B, Payment Provisions to the Agreement.

1.2 CONTRACTOR represents that it has the skills, experience, and knowledge necessary to perform under this Agreement and the COUNTY relies upon this representation. CONTRACTOR shall perform to the satisfaction of the COUNTY and in conformance to and consistent with the highest standards of firms/professionals in the same discipline in the State of California.

1.3 CONTRACTOR affirms that it is fully apprised of all of the work to be performed under this Agreement; and the CONTRACTOR agrees it can properly perform this work at the prices stated in Exhibit B. CONTRACTOR is not to perform services or provide products outside of the Agreement.

1.4 Acceptance by the COUNTY of the CONTRACTOR's performance under this Agreement does not operate as a release of CONTRACTOR's responsibility for full compliance with the terms of this Agreement.

2. Period of Performance

2.1 This Agreement shall be effective upon signature of this Agreement by both parties and continues in effect through December 31, 2024 unless terminated earlier. CONTRACTOR shall commence performance upon signature of this Agreement by both parties and shall diligently and continuously perform thereafter. The Riverside County Board of Supervisors is the only authority that may obligate the County for a non-cancelable multi-year agreement.

3. Compensation

3.1 The COUNTY shall pay the CONTRACTOR for services performed, products provided and expenses incurred in accordance with the terms of Exhibit B, Payment Provisions. Maximum payments by COUNTY to CONTRACTOR shall not exceed \$1,190,026.00 including all expenses. The COUNTY is not responsible for any fees or costs incurred above or beyond the contracted amount and shall have no obligation to purchase any specified amount of services or products. Unless otherwise specifically stated in

Exhibit B, COUNTY shall not be responsible for payment of any of CONTRACTOR's expenses related to this Agreement.

3.2 No price increases will be permitted during the first year of this Agreement (If applicable). All price decreases (for example, if CONTRACTOR offers lower prices to another governmental entity) will automatically be extended to the COUNTY. The COUNTY requires written proof satisfactory to COUNTY of cost increases prior to any approved price adjustment. After the first year of the award, a minimum of 30-days advance notice in writing is required to be considered and approved by COUNTY. No retroactive price adjustments will be considered. Any price increases must be stated in a written amendment to this Agreement. The net dollar amount of profit will remain firm during the period of the Agreement. Annual increases shall not exceed the percentage change in Consumer Price Index- All Consumers, All Items - Riverside, San Bernardino and Ontario for the twelve (12) month period January through January immediately preceding the adjustment, and be subject to satisfactory performance review by the COUNTY and approved (if needed) for budget funding by the Board of Supervisors.

3.3 CONTRACTOR shall be paid only in accordance with an invoice submitted to COUNTY by CONTRACTOR within fifteen (15) days from the last day of each calendar month, and COUNTY shall pay the invoice within thirty (30) working days from the date of receipt of the invoice. Payment shall be made to CONTRACTOR only after services have been rendered or delivery of materials or products, and acceptance has been made by COUNTY. Prepare invoices in duplicate. For this Agreement, send the original and duplicate copies of invoices to:

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES
ATTN: ACCOUNTS PAYABLE
14310 FREDERICK ST
MORENO VALLEY, CA 92553
WasteAccountsPayable@rivco.org

- a) Each invoice shall contain a minimum of the following information: invoice number and date; remittance address; bill-to and ship-to addresses of ordering department/division; Agreement number (WMARC-92546-003-08/24); quantities; item descriptions, unit prices, extensions, sales/use tax if applicable, and an invoice total.
- b) Invoices shall be rendered monthly in arrears.

3.4 The COUNTY obligation for payment of this Agreement beyond the current fiscal year end is contingent upon and limited by the availability of COUNTY funding from which payment can be made, and invoices shall be rendered "monthly" in arrears. In the State of California, government agencies are not allowed to pay excess interest and late charges, per Government Code section 926.10. No legal liability on the part of the COUNTY shall arise for payment beyond June 30 of each calendar year unless funds are made available for such payment. In the event that such funds are not forthcoming for any reason, COUNTY shall immediately notify CONTRACTOR in writing; and this Agreement shall be deemed terminated, have no further force, and effect.

4. **Alteration or Changes to the Agreement**

4.1 The Board of Supervisors and the COUNTY Purchasing Agent and/or his designee is the only authorized COUNTY representatives who may at any time, by written order, alter this Agreement. If any such alteration causes an increase or decrease in the cost of, or the time required for the performance under this Agreement, an equitable adjustment shall be made in the Agreement price or delivery schedule, or both, and the Agreement shall be modified by written amendment accordingly.

4.2 Any claim by the CONTRACTOR for additional payment related to this Agreement shall be made in writing by the CONTRACTOR within 30 days of when the CONTRACTOR has or should have notice of any actual or claimed change in the work, which results in additional and unanticipated cost to the CONTRACTOR. If the COUNTY Purchasing Agent decides that the facts provide sufficient justification, he may authorize additional payment to the CONTRACTOR pursuant to the claim. Nothing in this section shall excuse the CONTRACTOR from proceeding with performance of the Agreement even if there has been a change.

5. **Termination**

5.1. COUNTY may terminate this Agreement without cause upon thirty (30) days written notice served upon the CONTRACTOR stating the extent and effective date of termination.

5.2 COUNTY may, upon five (5) days written notice terminate this Agreement for CONTRACTOR's default, if CONTRACTOR refuses or fails to comply with the terms of this Agreement or fails to make progress that may endanger performance and does not immediately cure such failure. In the event of such termination, the COUNTY may proceed with the work in any manner deemed proper by COUNTY.

5.3 After receipt of the notice of termination, CONTRACTOR shall:

- (a) Stop all work under this Agreement on the date specified in the notice of termination; and
- (b) Transfer to COUNTY and deliver in the manner as directed by COUNTY any materials, reports or other products, which, if the Agreement had been completed or continued, would have been required to be furnished to COUNTY.

5.4 After termination, COUNTY shall make payment only for CONTRACTOR's performance up to the date of termination in accordance with this Agreement.

5.5 CONTRACTOR's rights under this Agreement shall terminate (except for fees accrued prior to the date of termination) upon dishonesty or a willful or material breach of this Agreement by CONTRACTOR; or in the event of CONTRACTOR's unwillingness or inability for any reason whatsoever to perform the terms of this Agreement. In such event, CONTRACTOR shall not be entitled to any further compensation under this Agreement.

5.6 If the Agreement is federally or State funded, CONTRACTOR cannot be debarred from the System for Award Management (SAM). CONTRACTOR must notify the COUNTY immediately of a debarment. Reference: System for Award Management (SAM) at <https://www.sam.gov> for Central Contractor Registry (CCR), Federal Agency Registration (Fedreg), Online Representations and Certifications Application, and Excluded Parties List System (EPLS)). Excluded Parties Listing System (EPLS) (<http://www.epls.gov>) (Executive Order 12549, 7 CFR Part 3017, 45 CFR Part 76, and 44 CFR Part 17). The System for Award Management (SAM) is the Official U.S. Government system that consolidated the capabilities of CCR/FedReg, ORCA, and EPLS.

5.7 The rights and remedies of COUNTY provided in this section shall not be exclusive and are in addition to any other rights and remedies provided by law or this Agreement.

6. Ownership/Use of Contract Materials and Products

The CONTRACTOR agrees that all materials, reports or products in any form, including electronic, created by CONTRACTOR for which CONTRACTOR has been compensated by COUNTY pursuant to this Agreement shall be the sole property of the COUNTY. The material, reports or products may be used by the COUNTY for any purpose that the COUNTY deems to be appropriate, including, but not limit to, duplication and/or distribution within the COUNTY or to third parties. CONTRACTOR agrees not to release or circulate in whole or part such materials, reports, or products without prior written authorization of the COUNTY.

7. Conduct of Contractor

7.1 The CONTRACTOR covenants that it presently has no interest, including, but not limited to, other projects or contracts, and shall not acquire any such interest, direct or indirect, which would conflict in any manner or degree with CONTRACTOR's performance under this Agreement. The CONTRACTOR further covenants that no person or subcontractor having any such interest shall be employed or retained by CONTRACTOR under this Agreement. The CONTRACTOR agrees to inform the COUNTY of all the CONTRACTOR's interests, if any, which are or may be perceived as incompatible with the COUNTY's interests.

7.2 The CONTRACTOR shall not, under circumstances which could be interpreted as an attempt to influence the recipient in the conduct of his/her duties, accept any gratuity or special favor from individuals or firms with whom the CONTRACTOR is doing business or proposing to do business, in accomplishing the work under this Agreement.

7.3 The CONTRACTOR or its employees shall not offer gifts, gratuity, favors, and entertainment directly or indirectly to COUNTY employees.

8. Inspection of Service; Quality Control/Assurance

8.1 All performance (which includes services, workmanship, materials, supplies and equipment furnished or utilized in the performance of this Agreement) shall be subject to inspection and test by the COUNTY or other regulatory agencies at all times. The CONTRACTOR shall provide adequate cooperation to any inspector or other COUNTY representative to permit him/her to determine the CONTRACTOR's conformity with the terms of this Agreement. If any services performed or products provided by CONTRACTOR are not in conformance with the terms of this Agreement, the COUNTY shall have the right to require the CONTRACTOR to perform the services or provide the products in conformance with the terms of the Agreement at no additional cost to the COUNTY. When the services to be performed or the products to be provided are of such nature that the difference cannot be corrected; the COUNTY shall have the right to: (1) require the CONTRACTOR immediately to take all necessary steps to ensure future performance in conformity with the terms of the Agreement; and/or (2) reduce the Agreement price to reflect the reduced value of the services performed or products provided. The COUNTY may also terminate this Agreement for default and charge to CONTRACTOR any costs incurred by the COUNTY because of the CONTRACTOR's failure to perform.

8.2 CONTRACTOR shall establish adequate procedures for self-monitoring and quality control and assurance to ensure proper performance under this Agreement; and shall permit a COUNTY representative or other regulatory official to monitor, assess, or evaluate CONTRACTOR's performance under this Agreement at any time, upon reasonable notice to the CONTRACTOR.

9. **Independent Contractor/Employment Eligibility**

9.1 The CONTRACTOR is, for purposes relating to this Agreement, an independent contractor and shall not be deemed an employee of the COUNTY. It is expressly understood and agreed that the CONTRACTOR (including its employees, agents, and subcontractors) shall in no event be entitled to any benefits to which COUNTY employees are entitled, including but not limited to overtime, any retirement benefits, worker's compensation benefits, and injury leave or other leave benefits. There shall be no employer-employee relationship between the parties; and CONTRACTOR shall hold COUNTY harmless from any and all claims that may be made against COUNTY based upon any contention by a third party that an employer-employee relationship exists by reason of this Agreement. It is further understood and agreed by the parties that CONTRACTOR in the performance of this Agreement is subject to the control or direction of COUNTY merely as to the results to be accomplished and not as to the means and methods for accomplishing the results.

9.2 CONTRACTOR warrants that it shall make its best effort to fully comply with all federal and state statutes and regulations regarding the employment of aliens and others and to ensure that employees performing work under this Agreement meet the citizenship or alien status requirement set forth in federal statutes and regulations. CONTRACTOR shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by federal or state statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. CONTRACTOR shall retain all such documentation for all covered employees, for the period prescribed by the law.

9.3 Ineligible Person shall be any individual or entity who: Is currently excluded, suspended, debarred or otherwise ineligible to participate in the federal health care programs; or has been convicted of a criminal offense related to the provision of health care items or services and has not been reinstated in the federal health care programs after a period of exclusion, suspension, debarment, or ineligibility.

9.4 CONTRACTOR shall screen prospective Covered Individuals prior to hire or engagement. CONTRACTOR shall not hire or engage any Ineligible Person to provide services directly relative to this

Agreement. CONTRACTOR shall screen all current Covered Individuals within sixty (60) days of execution of this Agreement to ensure that they have not become Ineligible Persons unless CONTRACTOR has performed such screening on same Covered Individuals under a separate agreement with COUNTY within the past six (6) months. Covered Individuals shall be required to disclose to CONTRACTOR immediately any debarment, exclusion or other event that makes the Covered Individual an Ineligible Person. CONTRACTOR shall notify COUNTY within five (5) business days after it becomes aware if a Covered Individual providing services directly relative to this Agreement becomes debarred, excluded or otherwise becomes an Ineligible Person.

9.5 CONTRACTOR acknowledges that Ineligible Persons are precluded from providing federal and state funded health care services by contract with COUNTY in the event that they are currently sanctioned or excluded by a federal or state law enforcement regulatory or licensing agency. If CONTRACTOR becomes aware that a Covered Individual has become an Ineligible Person, CONTRACTOR shall remove such individual from responsibility for, or involvement with, COUNTY business operations related to this Agreement.

9.6 CONTRACTOR shall notify COUNTY within five (5) business days if a Covered Individual or entity is currently excluded, suspended or debarred, or is identified as such after being sanction screened. Such individual or entity shall be promptly removed from participating in any activity associated with this Agreement.

10. Subcontract for Work or Services

No contract shall be made by the CONTRACTOR with any other party for furnishing any of the work or services under this Agreement without the prior written approval of the COUNTY; but this provision shall not require the approval of contracts of employment between the CONTRACTOR and personnel assigned under this Agreement, or for parties named in the proposal and agreed to under this Agreement.

11. Disputes

11.1 The parties shall attempt to resolve any disputes amicably at the working level. If that is not successful, the dispute shall be referred to the senior management of the parties. Any dispute relating to this Agreement, which is not resolved by the parties, shall be decided by the COUNTY's Purchasing Department's Compliance Contract Officer who shall furnish the decision in writing. The decision of the COUNTY's Compliance Contract Officer shall be final and conclusive unless determined by a court of

competent jurisdiction to have been fraudulent, capricious, arbitrary, or so grossly erroneous to imply bad faith. The CONTRACTOR shall proceed diligently with the performance of this Agreement pending the resolution of a dispute.

11.2 Prior to the filing of any legal action related to this Agreement, the parties shall be obligated to attend a mediation session in Riverside County before a neutral third party mediator. A second mediation session shall be required if the first session is not successful. The parties shall share the cost of the mediations.

12. Licensing and Permits

CONTRACTOR shall comply with all State or other licensing requirements, including but not limited to the provisions of Chapter 9 of Division 3 of the Business and Professions Code. All licensing requirements shall be met at the time proposals are submitted to the COUNTY. CONTRACTOR warrants that it has all necessary permits, approvals, certificates, waivers and exemptions necessary for performance of this Agreement as required by the laws and regulations of the United States, the State of California, the County of Riverside and all other governmental agencies with jurisdiction, and shall maintain these throughout the term of this Agreement.

13. Use By Other Political Entities

The CONTRACTOR agrees to extend the same pricing, terms, and conditions as stated in this Agreement to each and every political entity, special district, and related non-profit. It is understood that other entities shall make purchases in their own name, make direct payment, and be liable directly to the CONTRACTOR; and COUNTY shall in no way be responsible to CONTRACTOR for other entities' purchases.

14. Non-Discrimination

CONTRACTOR shall not discriminate in the provision of services, allocation of benefits, accommodation in facilities, or employment of personnel on the basis of ethnic group identification, race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status or sex in the performance of this Agreement; and, to the extent they shall be found to be applicable hereto, shall comply with the provisions of the California Fair Employment and Housing Act (Gov. Code 12900 et. seq), the Federal Civil Rights Act of 1964 (P.L. 88-352), the Americans with Disabilities Act of 1990 (42 U.S.C. S1210 et seq.) and all other applicable laws or regulations.

15. Records and Documents

CONTRACTOR shall make available, upon written request by any duly authorized Federal, State, or COUNTY agency, a copy of this Agreement and such books, documents and records as are necessary to certify the nature and extent of the CONTRACTOR's costs related to this Agreement. All such books, documents and records shall be maintained by CONTRACTOR for at least five years following termination of this Agreement and be available for audit by the COUNTY. CONTRACTOR shall provide to the COUNTY reports and information related to this Agreement as requested by COUNTY.

16. Confidentiality

16.1 The CONTRACTOR shall not use for personal gain or make other improper use of privileged or confidential information which is acquired in connection with this Agreement. The term "privileged or confidential information" includes but is not limited to: unpublished or sensitive technological or scientific information; medical, personnel, or security records; anticipated material requirements or pricing/purchasing actions; COUNTY information or data which is not subject to public disclosure; COUNTY operational procedures; and knowledge of selection of contractors, subcontractors or suppliers in advance of official announcement.

16.2 The CONTRACTOR shall protect from unauthorized disclosure names and other identifying information concerning persons receiving services pursuant to this Agreement, except for general statistical information not identifying any person. The CONTRACTOR shall not use such information for any purpose other than carrying out the CONTRACTOR's obligations under this Agreement. The CONTRACTOR shall promptly transmit to the COUNTY all third party requests for disclosure of such information. The CONTRACTOR shall not disclose, except as otherwise specifically permitted by this Agreement or authorized in advance in writing by the COUNTY, any such information to anyone other than the COUNTY. For purposes of this paragraph, identity shall include, but not be limited to, name, identifying number, symbol, or other identifying particulars assigned to the individual, such as finger or voice print or a photograph.

17. Administration/Contract Liaison

The COUNTY Purchasing Agent, or designee, shall administer this Agreement on behalf of the COUNTY. The Purchasing Department is to serve as the liaison with CONTRACTOR in connection with this Agreement.

18. Notices

All correspondence and notices required or contemplated by this Agreement shall be delivered to the respective parties at the addresses set forth below and are deemed submitted two days after their deposit in the United States mail, postage prepaid:

COUNTY OF RIVERSIDE

RIVERSIDE COUNTY WASTE RESOURCES
14310 FREDERICK ST
MORENO VALLEY, CA 92553
ATTN: ANDY CORTEZ

CONTRACTOR

GEOLOGIC ASSOCIATES
2777 EAST GUASTI ROAD
ONTARIO CA, 91761
ATTN: GARY LASS

19. Force Majeure

If either party is unable to comply with any provision of this Agreement due to causes beyond its reasonable control, and which could not have been reasonably anticipated, such as acts of God, acts of war, civil disorders, or other similar acts, such party shall not be held liable for such failure to comply.

20. EDD Reporting Requirements

In order to comply with child support enforcement requirements of the State of California, the COUNTY may be required to submit a Report of Independent Contractor(s) form **DE 542** to the Employment Development Department. The CONTRACTOR agrees to furnish the required data and certifications to the COUNTY within 10 days of notification of award of Agreement when required by the EDD. This data will be transmitted to governmental agencies charged with the establishment and enforcement of child support orders. Failure of the CONTRACTOR to timely submit the data and/or certificates required may result in the contract being awarded to another contractor. In the event a contract has been issued, failure of the CONTRACTOR to comply with all federal and state reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignments Orders and Notices of Assignment shall constitute a material breach of Agreement. If CONTRACTOR has any questions concerning this reporting requirement, please call (916) 657-0529. CONTRACTOR should also contact its local Employment Tax Customer Service Office listed in the telephone directory in the State Government section under "Employment Development Department" or access their Internet site at www.edd.ca.gov.

21. Hold Harmless/Indemnification

21.1 CONTRACTOR shall indemnify and hold harmless the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives (individually and collectively hereinafter referred to as Indemnitees) from any liability, action, claim or damage whatsoever, based or asserted upon any services of CONTRACTOR, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to this Agreement, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature. CONTRACTOR shall defend the Indemnitees at its sole expense including all costs and fees (including, but not limited, to attorney fees, cost of investigation, defense and settlements or awards) in any claim or action based upon such acts, omissions or services.

21.2 With respect to any action or claim subject to indemnification herein by CONTRACTOR, CONTRACTOR shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of COUNTY; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes CONTRACTOR indemnification to Indemnitees as set forth herein.

21.3 CONTRACTOR'S obligation hereunder shall be satisfied when CONTRACTOR has provided to COUNTY the appropriate form of dismissal relieving COUNTY from any liability for the action or claim involved.

21.4 The specified insurance limits required in this Agreement shall in no way limit or circumscribe CONTRACTOR'S obligations to indemnify and hold harmless the Indemnitees herein from third party claims.

22. Insurance

22.1 Without limiting or diminishing the CONTRACTOR'S obligation to indemnify or hold the COUNTY harmless, CONTRACTOR shall procure and maintain or cause to be maintained, at its sole cost and expense, the following insurance coverage's during the term of this Agreement. As respects to the insurance section only, the COUNTY herein refers to the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents, or representatives as Additional Insureds.

A. Workers' Compensation:

If the CONTRACTOR has employees as defined by the State of California, the CONTRACTOR shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in favor of The County of Riverside.

B. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, unmodified contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of CONTRACTOR'S performance of its obligations hereunder. Policy shall name the COUNTY as Additional Insured. Policy's limit of liability shall not be less than \$2,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit.

C. Vehicle Liability:

If vehicles or mobile equipment is used in the performance of the obligations under this Agreement, then CONTRACTOR shall maintain liability insurance for all owned, non-owned, or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit. Policy shall name the COUNTY as Additional Insureds.

D. Professional Liability: Contractor shall maintain Professional Liability Insurance providing coverage for the Contractor's performance of work included within this Agreement, with a limit of liability of not less than \$1,000,000 per occurrence and \$2,000,000 annual aggregate. If Contractor's Professional Liability Insurance is written on a claims made basis rather than an occurrence basis, such insurance shall continue through the term of this Agreement and CONTRACTOR shall purchase at his sole expense either 1) an Extended Reporting Endorsement (also, known as Tail Coverage); or 2) Prior Dates Coverage from new insurer with a retroactive date back to the date of, or prior to, the inception of this Agreement; or 3) demonstrate through Certificates of Insurance that CONTRACTOR has Maintained continuous coverage with the same or original insurer. Coverage provided under items; 1), 2), or 3) will continue as long as the law allows.

E. General Insurance Provisions - All lines:

1) Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

2) The CONTRACTOR must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceeds \$500,000 per occurrence each such retention shall have the prior written consent of the County Risk Manager before the commencement of operations under this Agreement. Upon notification of self-insured retention unacceptable to the COUNTY, and at the election of the County's Risk Manager, CONTRACTOR'S carriers shall either; 1) reduce or eliminate such self-insured retention as respects this Agreement with the COUNTY, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

3) CONTRACTOR shall cause CONTRACTOR'S insurance carrier(s) to furnish the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County of Riverside prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. CONTRACTOR shall not commence operations until the COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier shall sign the original endorsements for each policy and the Certificate of Insurance.

4) It is understood and agreed to by the parties hereto that the CONTRACTOR'S insurance shall be construed as primary insurance, and the COUNTY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

5) If, during the term of this Agreement or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work; or, the term of this Agreement, including any extensions thereof, exceeds five (5) years; the COUNTY reserves the right to adjust the types of insurance and the monetary limits of liability required under this Agreement, if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the CONTRACTOR has become inadequate.

6) CONTRACTOR shall pass down the insurance obligations contained herein to all tiers of subcontractors working under this Agreement.

7) The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the COUNTY.

8) CONTRACTOR agrees to notify COUNTY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement.

23. General

23.1 CONTRACTOR shall not delegate or assign any interest in this Agreement, whether by operation of law or otherwise, without the prior written consent of COUNTY. Any attempt to delegate or assign any interest herein shall be deemed void and of no force or effect.

23.2 Any waiver by COUNTY of any breach of any one or more of the terms of this Agreement shall not be construed to be a waiver of any subsequent or other breach of the same or of any other term of this Agreement. Failure on the part of COUNTY to require exact, full, and complete compliance with any terms of this Agreement shall not be construed as in any manner changing the terms or preventing COUNTY from enforcement of the terms of this Agreement.

23.3 In the event the CONTRACTOR receives payment under this Agreement, which is later disallowed by COUNTY for nonconformance with the terms of the Agreement, the CONTRACTOR shall promptly refund the disallowed amount to the COUNTY on request; or at its option the COUNTY may offset the amount disallowed from any payment due to the CONTRACTOR.

23.4 CONTRACTOR shall not provide partial delivery or shipment of services or products unless specifically stated in the Agreement.

23.5 CONTRACTOR shall not provide any services or products subject to any chattel mortgage or under a conditional sales contract or other agreement by which an interest is retained by a third party. The CONTRACTOR warrants that it has good title to all materials or products used by CONTRACTOR or provided to COUNTY pursuant to this Agreement, free from all liens, claims, or encumbrances.

23.6 Nothing in this Agreement shall prohibit the COUNTY from acquiring the same type or equivalent equipment, products, materials or services from other sources, when deemed by the COUNTY to be in its best interest. The COUNTY reserves the right to purchase more or less than the quantities specified in this Agreement.

23.7 The COUNTY agrees to cooperate with the CONTRACTOR in the CONTRACTOR's performance under this Agreement, including, if stated in the Agreement, providing the CONTRACTOR with reasonable facilities and timely access to COUNTY data, information, and personnel.

23.8 CONTRACTOR shall comply with all applicable Federal, State and local laws and regulations. CONTRACTOR will comply with all applicable COUNTY policies and procedures. In the event that there is a conflict between the various laws or regulations that may apply, the CONTRACTOR shall comply with the more restrictive law or regulation.

23.9 CONTRACTOR shall comply with all air pollution control, water pollution, safety and health ordinances, statutes, or regulations, which apply to performance under this Agreement.

23.10 CONTRACTOR shall comply with all requirements of the Occupational Safety and Health Administration (OSHA) standards and codes as set forth by the U.S. Department of Labor and the State of California (Cal/OSHA).

23.11 This Agreement shall be governed by the laws of the State of California. Any legal action related to the performance or interpretation of this Agreement shall be filed only in the Superior Court of the State of California located in Riverside, California, and the parties waive any provision of law providing for a change of venue to another location. In the event any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

23.12 This Agreement, including any attachments or exhibits, constitutes the entire Agreement of the parties with respect to its subject matter and supersedes all prior and contemporaneous representations, proposals, discussions and communications, whether oral or in writing. This Agreement may be changed or modified only by a written amendment signed by authorized representatives of both parties.

24. Electronic Signatures

This Agreement may be executed in any number of counterparts, each of which will be an original, but all of which together will constitute one instrument. Each party to this Agreement agrees to the use of electronic signatures, such as digital signatures that meet the requirements of the California Uniform Electronic Transactions Act ("CUETA") (Cal. Civ. Code §§ 1633.1 to 1633.17), for executing this Agreement. The parties further agree that the electronic signatures of the parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures. Electronic signature means an electronic sound, symbol, or process attached to or logically associated with an electronic record and executed or adopted by a person with the intent to sign the electronic record pursuant to the CUETA as amended from time to time. The CUETA authorizes use of an electronic signature for transactions and contracts among parties in California, including a government agency. Digital signature means an electronic identifier, created by computer, intended by the party using it to have the same force and effect as the use of a manual signature, and shall be reasonably relied upon by the parties. For purposes of this section, a digital signature is a type of "electronic signature" as defined in subdivision (i) of Section 1633.2 of the Civil Code.

[Signatures on Following Page]

IN WITNESS WHEREOF, the parties hereto have caused their duly authorized representatives to execute this Agreement.

COUNTY OF RIVERSIDE, a political
subdivision of the State of California

By: Jeff Hewitt
Jeff Hewitt, Chair
Board of Supervisors

Dated: AUG 02 2022

ATTEST:
Kecia Harper
Clerk of the Board

By: [Signature]
Deputy

APPROVED AS TO FORM
COUNTY COUNSEL

By: Lisa Sanchez
Lisa Sanchez
Deputy County Counsel

GEOLOGIC ASSOCIATES, INC. a
California Corporation

By: Gary Lass for
Gary Lass
Chief Executive Officer

Dated: July 28, 2022

EXHIBIT "A"
SCOPE OF SERVICES

Service A: Geotechnical Services

Task 1 - Geotechnical Research and Laboratory Testing for On-Site Materials

- Perform geotechnical research on previously conducted geotechnical investigations performed within the P2S1 Project Area.
- Perform laboratory maximum dry density and optimum moisture tests (Modified Proctor Compaction Test – ASTM D1557) on samples of soil that may be used as engineered fill material.
- Perform particle size analysis (ASTM D422) on samples of soil that may be used as engineered fill or protective soil.
- Perform direct shear tests (ASTM D5607) on samples taken from the proposed slopes under the proposed stockpiles where there is landslide material that may affect the stability of the stockpile.
- Prepare and submit a test summary report to Waste Resources, including all test results and recommendations. The report recommendations shall address (1) the feasibility and necessary processing/placement procedures relating to the use of on-site material as engineered fill or protective soil and (2) any recommended actions to stabilize the soil stockpiles.

Task 2 - Subsurface Investigation

- If it is determined that further subsurface investigation is required for performing the stability analysis, Waste Resources may request that the CONTRACTOR perform subsurface investigation work within areas of concern. The subsurface investigation shall consist of performing soil borings up to a depth to be determined by the CONTRACTOR in areas where an off-road drill rig will be required. If needed, Waste Resources will provide reasonable grading efforts to construct access roads for soil boring locations. CONTRACTOR shall prepare and submit boring logs including, but not limited to soil classification, geologic data, moisture content, dry density, and blow counts as part of the final stability analysis report.

Task 3 - Design Selection

- The proposed expansion project shall be constructed in compliance with the pertinent requirements of CFR Title 40 Subtitle D and CCR Title 27. The currently approved side-slope liner system for the Badlands Landfill may be found in Waste Discharge Requirement

order (WDR) R8-2020-0003. The following are the components of the preferred side slope liner, from bottom to top, that Waste Resources may elect to use in the liner system design:

Side Slope Liner System

Prepared Subgrade
Geosynthetic Clay Liner (GCL)
60-mil single textured HDPE
16 oz/sf cushion Geotextile
24" thick protective soil layer (3-in minus for the lower 12 inches and 6-in minus for the upper 12) inches)
Or
Scrim, where the protective soil layer is not placed

- The following are the components of the preferred bottom liner, from bottom to top, that Waste Resources may elect to use in the liner system design:

Bottom Liner System

Prepared Subgrade
12" thick LPL (1×10^{-6} cm/sec)
60-mil textured HDPE
Geosynthetic Clay Liner (GCL)
60-mil double textured HDPE
12 oz/sf cushion Geotextile
9" thick drainage layer (≥ 0.1 cm/s) (1/2" gravel)
8 oz/sf Geotextile filter fabric
24" thick protective soil layer (3-in minus for the lower 12 inches and 6-in minus for the upper 12 inches)

- The CONTRACTOR shall review the approved liner systems and site-specific conditions and recommend a design solution. The recommended design may include design changes that result in the most economical design (considering landfill airspace and constructability). Prior to further stability analysis work, the recommended design solution shall be reviewed by and approved by Waste Resources, in advance and in writing. It should be noted that any recommendations that are not currently permitted in the WDRs or SWFP will not be allowed due to the need to process such changes as a permit revision.

Task 4 - Stability Analysis

- The interface shear strengths between the different layers of the proposed liner system shall be determined by the CONTRACTOR after completion of Tasks 1, 2, and 3. Preliminary cross-sections for the project are enclosed
- The final CQA report of the two recent completed C4P3 and C2P5/C3P2 (Badlands) expansions will be available for review by the selected CONTRACTOR.
- Perform static and seismic analysis of the design side-slopes within the proposed grading limits. Allow for a minimum of three (3) iterations to account for potential subgrade changes.
- Perform static and seismic analysis for the liner subgrade as well as the liner system on subgrade. Preliminary cross-sections for the project are enclosed (Refer to Exhibit F – Phase

2, Stage 1 Liner Expansion Project: Subgrade and Refuse Fill Cross-Sections). Once a CONTRACTOR is selected, Waste Resources will provide additional cross-sections upon request. Allow for a minimum of three (3) iterations for potential changes to the following: subgrade plan, refuse fill plan, and liner system design.

- Perform static and seismic analysis of the design side-slopes of the proposed stockpiles. Allow for a minimum of three (3) iterations to account for potential subgrade changes.
- Following the completion of the engineering analysis, prepare and submit a final report for the expansion project with geotechnical results, findings, documentation, and recommendations for the proposed earthwork (excavation and engineered fill) and refuse fill plans. The report shall include the appropriate maps, cross-sections, design criteria, calculations, and any other necessary supporting documents needed for a comprehensive design and construction of the proposed expansion.
- Allow for a meeting with CRWQCB-SAR staff, if necessary, to review and/or defend the criteria used in the stability analysis.

Task 5 - Technical Review of Contract Document Details

- Upon Waste Resources' completion of the construction Contract Documents, the CONTRACTOR shall provide technical review and comments for specification sections for earthwork, drainage layer, LCRS (Leachate Collection and Removal System) and geosynthetic material sections, QA/QC plan, and plan details related to the installation of the liner and LCRS system.

Service B: Geological Services

Task 1 - Geologic Mapping

- Perform geologic observations, logging, and mapping of all areas in which excavation activities had taken place within the proposed P2S1 grading limits to provide a continuous record of geologic conditions.

Task 2 - Project Management & Report Preparation

- Prepare and submit geologic maps and cross-sections documenting observed geologic conditions and provide grading plan recommendations in a final report. Geologic mapping performed for previous evaluations will be made available for review.

Service C: Construction QA/QC Tasks

Task 1 - Technical Review of Contract Document Details

- Upon COUNTY's completion of the construction Contract Documents, the CONTRACTOR shall provide technical review and comments for specification sections (earthwork, drainage

layer, LCRS and geosynthetic material sections only), QA/QC plan, and plan details related to the installation of the liner system.

Task 2 - Construction Observation and Field Testing

- Provide full-time observation and field testing for each of the following activities: engineered fill placement, geosynthetic liner subgrade preparation, material deliveries, liner system installation, drainage layer construction, anchor trench backfill, protective soil screening and placement, access road and drainage structure subgrade preparation and access roadways and reinforced concrete structure construction in accordance with the QA/QC Plan. Multiple inspectors will need to be provided for observation and field testing for each activity if any of the construction observation and field-testing activities are performed by the Contractor concurrently. Provide part-time observation and field testing for access road and drainage structure construction in accordance with the QA/QC Plan. Tasks shall include, but not limited to; staff, transportation, testing equipment, generating daily reports, weekly meeting attendance, supplies, and per diem costs.

Task 3 - Project QA/QC Management and Reports

- Provide QA/QC management and generate reports as specified in the QA/QC plan. Allow QA/QC manager to attend pre-construction and weekly construction progress meetings in person.

Task 4 - Laboratory Testing

- Perform and document laboratory testing as specified in the QA/QC plan.

Task 5 - Certification and As-Built Report

- Provide certification of compliance with the Technical Specifications per the Contract Documents and preparation of an as-built report for the P2S1 Liner Expansion Project. The report must be prepared and signed by either a California Registered Civil Engineer or California Registered Engineering Geologist.

EXHIBIT "B"
PAYMENT PROVISIONS

Service A: Geotechnical Services

Task No.	Description of Work	Unit	Estimated Quantities	Unit Price	Total
TASK NO. 1 - LABORATORY TESTING FOR ON-SITE MATERIALS					
1.1	Particle Size Analysis (ASTM D422) - Eng. Fill	test	5	\$170.00	\$850.00
1.2	Lab. Modified Proctor -Moisture/Density (ASTM D1557) - Eng. Fill	test	10	\$195.00	\$1,950.00
1.3	Lab Hydraulic Conductivity (Shelby Tube ASTM D5084)	test	4	\$352.00	\$1,408.00
1.4	Direct Shear Tests (ASTM D5607)	test	6	\$204.00	\$1,224.00
SUBTOTAL TASK 1					\$5,432.00
TASK NO. 2 - SUBSURFACE INVESTIGATION					
2.1	Subsurface Investigation Borings	foot	150	\$130.00	\$19,500.00
2.2	Subsurface Investigation Test Pit	test pit	9	\$0.00	\$0.00
SUBTOTAL TASK 2					\$19,500.00
TASK NO. 3 - DESIGN SELECTION					
3.1	Design Selection				
	Principal Professional I	hour	\$260	8	\$2,080
	Senior Professional I	hour	\$218	2	\$436
	Technical Editor	hour	\$120	1	\$120
	Miscellaneous Project Expenses	LS	\$79	1	\$79
SUBTOTAL TASK 3					\$2,715.00
TASK NO. 4 - STABILITY ANALYSIS					
4.1	Stability Analysis - Liner Expansion and Stockpiles				
	Principal Professional I	hour	\$260	24	\$6,240
	Senior Professional I	hour	\$218	60	\$13,080
	Staff Professional II	hour	\$142	24	\$3,408
	CADD Designer	hour	\$140	12	\$1,680
	Technical Editor	hour	\$120	2	\$240
	Miscellaneous Project Expenses	LS	\$739	1	\$739
SUBTOTAL TASK 4					\$25,387.00
TASK NO. 5 - TECHNICAL REVIEW OF CONTRACT DOCUMENT DETAILS					
5.1	Review of Project Details, Specifications Sections & CQA/QC Plan				

	Principal Professional I	hour	\$260	8	\$2,080
	Senior Professional I	hour	\$218	2	\$436
	Miscellaneous Project Expenses	LS	\$75	1	\$75
SUBTOTAL TASK 5					\$2,591.00
Service A: Geotechnical Services Total Proposal (Tasks 1-6)					\$55,625.00

Service B: Geological Services

Task No.	Description of Work	Unit	Estimated Quantities	Unit Price	Total
TASK NO. 1 - GEOLOGIC MAPPING					
1.1	Geologic Mapping	Working Day	6	\$2,369.00	\$14,214.00
	Senior Professional I	hour	\$218	10	
	Field Vehicle Usage	hour	\$15	8	
	Miscellaneous Project Expenses	LS	\$69	1	
SUBTOTAL TASK 1					\$14,214.00
TASK NO. 2 - PROJECT MANAGEMENT & REPORT PREPARATION					
2.1	Project Management & Report Preparation				
	Principal Professional I	hour	\$260	4	\$1,040
	Senior Professional I	hour	\$218	8	\$1,744
	CADD Designer	hour	\$140	6	\$840
	Technical Editor	hour	\$120	4	\$480
	Miscellaneous Project Expenses	LS	\$123	1	\$123
SUBTOTAL TASK 2					\$4,227.00
Service B: Geological Services Total Proposal (Tasks 1-2)					\$18,441.00

Service C: Construction QA/QC Services

Task No.	Description of Work	Unit	Estimated Quantities	Unit Price	Total
TASK NO. 1 - TECHNICAL REVIEW OF CONTRACT DOCUMENT DETAILS					
1.1	Review of Project Details, Specifications Sections & CQA/QC Plan				
	Principal Professional I	Hour	\$260	8	\$2,080

	Senior Professional I	Hour	\$218	2	\$436
	Miscellaneous Project Expenses	Hours	\$75	1	\$75
SUBTOTAL TASK 1					\$2,591.00
TASK NO. 2 - CONSTRUCTION OBSERVATION AND FIELD TESTING					
2.1	Construction Observation & Field Testing Services	Working Day	360	\$1,121	\$403,560.00
	Technician III	Hour	\$121	8	
	Field Vehicle Usage	Hour	\$15	8	
	Miscellaneous Project Expenses	Working Day	\$33	1	
2.2	Construction Observation & Field Testing Services	Working Day	360	\$1,121	\$403,560.00
	Technician III	Hour	\$121	8	
	Field Vehicle Usage	Hour	\$15	8	
	Miscellaneous Project Expenses	Working Day	\$33	1	
2.3	Construction Observation & Field Testing Services - Overtime	Hour	288	\$178	\$51,264.00
	Technician III Overtime	Hour	\$163	1	
	Field Vehicle Usage	Hour	\$15	1	
2.4	Nuclear Gauge - In-place Moisture/Density (ASTM D2922)	test	3450	\$0.00	\$0.00
2.5	Sand Cone - In-place Moisture/Density (ASTM D1556)	test	690	\$0.00	\$0.00
SUBTOTAL TASK 2					\$858,384.00
TASK NO. 3 - PROJECT CQA/QC MANAGEMENT AND REPORT					
3.1	Project QA/QC Management and Reports	Working Day	360	\$239.84	\$86,344.00
	Principal Professional I	Hour	\$260	0.5	
	Senior Professional I	Hour	\$218	0.5	
	Field Vehicle Usage	Hour	\$15	0.03	

	Miscellaneous Project Expenses	LS	\$12	0.03	
SUBTOTAL TASK 3					\$86,344.00
TASK NO. 4 - LABORATORY TESTING					
	Earthwork				
4.1	Particle Size Analysis (ASTM D422 without Hydrometer)	test	230	\$170	\$39,100.00
4.2	Lab. Modified Proctor - Moisture/Density (ASTM D1557)	test	230	\$195	\$44,850.00
4.3	1-inch minus for Side Slopes, Benches (particle size)	test	82	\$170	\$13,940.00
4.4	3-inch minus on the Canyon Floor (particle size)	test	5	\$170	\$850.00
4.5	1-inch minus stockpile (particle size)	test	5	\$170	\$850.00
	LPL				
4.5	Particle Size Analysis (ASTM D422 without Hydrometer)	test	4	\$170	\$680.00
4.6	Plastic Index (Atterberg Limits ASTM D4318)	test	4	\$180	\$720.00
4.7	Moisture-Density Relationship (ASTM D1557)	test	3	\$195.00	\$585.00
4.8	Lab Hydraulic Conductivity (Shelby Tube ASTM D5084)	test	4	\$352	\$1,408.00
4.9	In-Place Density/ Moisture Content (nuclear or drive ring) ASTM D2922, 3017, 2937	test	4	\$30	\$120.00
4.10	In-Place Density/ Moisture Content (Sand Cone and Oven Dry) ASTM D1556 and D2216	test	3	\$30	\$90.00
4.11	Field Hydraulic Conductivity (BAT™)	test	10	\$200	\$2,000.00
	GCL				
4.12	Mass per unit area (ASTM D5993)	test	82	\$46	\$3,772.00
4.13	Moisture Content (ASTM D4643)	test	5	\$35	\$175.00
4.14	Grab Strength/Elongation (ASTM D4632)	test	5	\$86	\$430.00
4.15	Index Flux (ASTM D5887)	test	5	\$259	\$1,295.00
4.16	In-Plant Geosynthetic Conformance Sampling (GCL, HDPE, & Geotextile)	Lump Sum	1	\$3,220	\$3,220.00
	HDPE				
4.17	Thickness (ASTM D5994)	test	5	\$29.00	\$145.00
4.18	Density (ASTM D1505)	test	5	\$35	\$175.00

4.19	Tensile Strength (ASTM D638)	test	5	\$69.00	\$345.00
4.20	Asperity Height (D7466)	test	5	\$35.00	\$175.00
4.21	Puncture Resistance (ASTM D4833)	test	5	\$63.00	\$315.00
4.22	Carbon Black Content (ASTM D1603)	test	5	\$52.00	\$260.00
4.23	Carbon Black Dispersion (ASTM D5596)	test	5	\$52.00	\$260.00
4.24	Destructive Seam Test (ASTM D6392)	test	32	\$46.00	\$1,472.00
4.25	Electric Leak Location Survey (ASTM 8265 or 7007)	Lump Sum	1	\$17,000.00	\$17,000.00
	Geotextile				
4.26	Grab Tensile Strength/Elongation (ASTM 4632)	test	53	\$69.00	\$3,657.00
4.27	Mass per Unit Area (ASTM D5261)	test	5	\$29.00	\$145.00
4.28	Apparent Opening Size (ASTM D4751)	test	5	\$144.00	\$720.00
4.29	Permittivity (ASTM D4491)	test	5	\$115.00	\$575.00
4.30	Puncture Resistance (ASTM D4833)	test	5	\$63.00	\$315.00
4.31	Static Puncture Strength (ASTM D6241)	test	5	\$173.00	\$865.00
4.32	Trapezoidal Tear Strength (ASTM D4533)	test	5	\$69.00	\$345.00
	Interface Shear Testing				
4.33	Interface Direct Shear Testing (ASTM 5321 and/or ASTM2435)	test	3	\$1,783.00	\$5,349.00
4.34	Shipping for Soil/Materials for Testing	Lump Sum	1	\$500.00	\$500.00
	Drainage Layer				
4.35	Particle Size Analysis (ASTM D422)	test	7	\$170.00	\$1,190.00
4.36	Permittivity (ASTM D2434)	test	3	\$300.00	\$900.00
	Base				
4.37	Particle Size Analysis (ASTM D422 without Hydrometer)	test	5	\$200.00	\$1,000.00
4.38	Lab. Modified Proctor - Moisture/Density (ASTM D1557)	test	2	\$195.00	\$390.00
	Concrete				
4.39	Conc. Cylinders - Compressive Strength (ASTM C39 and C31)	test	3	\$44.00	\$132.00
SUBTOTAL TASK 4					\$150,315.00

TASK NO. 5 - CERTIFICATION AND AS-BUILT REPORTS					
5.1	As-Built Certification Report				
	Principal Professional I	hour	\$260	4	\$1,040
	Senior Professional I	hour	\$218	20	\$4,360
	Staff Professional III	hour	\$154	32	\$4,928
	CADD Designer	hour	\$140	24	\$3,360
	Technical Editor	hour	\$120	10	\$1,200
	Technician III	hour	\$121	24	\$2,904
	Miscellaneous Project Expenses	LS	\$534	1	\$534
SUBTOTAL TASK 5					\$18,326.00
Service C: Construction QA/QC Services Total Proposal (Tasks 1-5)					\$1,115,960.00
Total Cost (Services A – C)					\$1,190,026.00

COUNTY reserves the right to delete, increase or decrease quantities with no adjustment to the unit price in the PAYMENT PROVISIONS. Payments for Service C shall be based on actual daily QA/QC construction observation services and testing performed.